

Study IS - Requirements and Design diagrams

BaraB

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Stereotypes

Include			
Extend			
appliedProfile			
human interaction			
java			
data management			
problem domain			
executionEnvironment			
server			
client			
browser			
requirement			
Tagged Value Definitions	Text		
	Type	HTML	
	Project Management	Name	Value
	ID		
	Type	Text	
	Project Management	Name	Value
	source		
	Type	Text	
	Project Management	Name	Value
	kind		
	Type	Enumeration	
	Enumeration Values	Functional, Performance, Interface	
	Project Management	Name	Value
	verifyMethod		
	Type	Enumeration	
	Enumeration Values	Analysis, Demonstration, Inspection, Test	
	Project Management	Name	Value
	risk		
	Type	Enumeration	
	Enumeration Values	High, Medium, Low	
	Project Management	Name	Value

status		
Type	Enumeration	
Enumeration Values	Proposed, Approved, Rejected, Deferred, Implemented, Mandatory, Obsolete	
Project Management	Name	Value
	Author	BaraB
	Create Date Time	27.2.2011 23:09:49
	Last Modified	27.2.2011 23:19:57

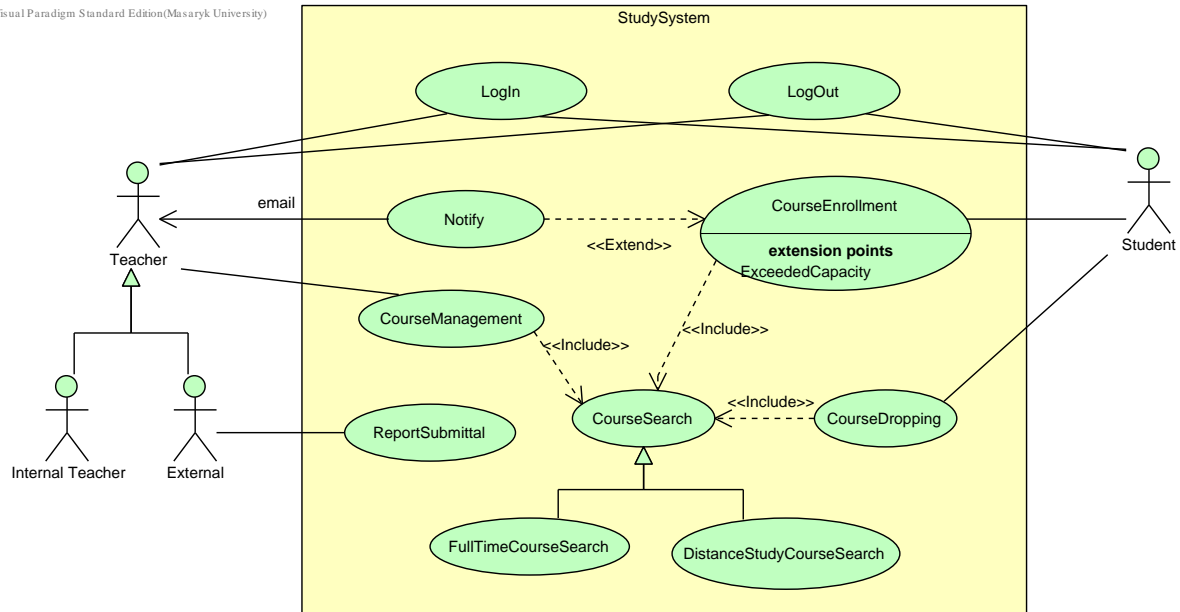
UseCase			
Tagged Value Definitions	Level		
	Type	Enumeration	
	Enumeration Values	Summary, User, Subfunction	
	Project Management	Name	Value
		Author	BaraB
		Create Date Time	27.2.2011 23:08:47
		Last Modified	27.2.2011 23:19:57
	Complexity		
	Type	Enumeration	
	Enumeration Values	Low, Medium, High	
	Project Management	Name	Value
		Author	BaraB
		Create Date Time	27.2.2011 23:08:47
		Last Modified	27.2.2011 23:19:57
	Use Case Status		
	Type	Enumeration	
	Enumeration Values	Name Only, Initial, Base, Complete, Deferred	
	Project Management	Name	Value
		Author	BaraB
		Create Date Time	27.2.2011 23:08:47
Last Modified		27.2.2011 23:19:57	
Implementation Status			
Type	Enumeration		
Enumeration Values	Scheduled, Started, Partially Complete, Complete, Partially Deferred		
Project Management	Name	Value	
	Author	BaraB	
	Create Date Time	27.2.2011 23:08:47	
	Last Modified	27.2.2011 23:19:57	
Preconditions			

Type	Multi-line Text	
Project Management	Name	Value
	Author	BaraB
	Create Date Time	27.2.2011 23:08:47
	Last Modified	27.2.2011 23:19:57
Post-conditions		
Type	Multi-line Text	
Project Management	Name	Value
	Author	BaraB
	Create Date Time	27.2.2011 23:08:47
	Last Modified	27.2.2011 23:19:57
Author		
Type	Text	
Project Management	Name	Value
	Author	BaraB
	Create Date Time	27.2.2011 23:08:47
	Last Modified	27.2.2011 23:19:57
Assumptions		
Type	Multi-line Text	
Project Management	Name	Value
	Author	BaraB
	Create Date Time	27.2.2011 23:08:47
	Last Modified	27.2.2011 23:19:57

Use Case Diagram

UseCase model of system

Visual Paradigm Standard Edition(Masaryk University)



Name	Value
Name	UseCase model of system
Last Modified	11.11.2014 23:36:16
Shape Presentation Option	0

Summary

Name	Documentation
Internal Teacher	Teacher working mostly fulltime for a monthly wage.
Teacher	Role of a person teaching at the institution that uses the system.
External	Teacher teaching only a limited number of hours a week, paid based on the exact number of worked hours.
Student	Role of a person studying at the institution that uses the system.
DistanceStudyCourseSearch	User may search for distance-study courses based on several attributes.
ReportSubmittal	Allows the external teachers to submit work reports about the worked hours.
FullTimeCourseSearch	User may search for full-time courses based on several attributes.
CourseSearch	User may search for courses based on several attributes.
CourseDropping	Students may drop a course in which they are currently enrolled.
CourseManagement	Lectors may add, edit or remove selected courses.
CourseEnrollment	Allows student to be electronically enrolled in the course.
Notify	System informs lector about exceeded limit in course capacity.
LogOut	As a result, user is logged out of the system.
LogIn	As a result, user is logged in the system.
StudySystem	Study Information System

Study information system is intended to support management of courses including electronic enrollment and course dropping.

Management of the courses allows teachers to add new courses, remove courses and update course information, which includes a name, info, prerequisites, capacity, schedule and a distinction of full time and distance study courses.

Students have an opportunity to electronically enroll at courses and drop a course (i.e. withdraw from it). Enrollment at courses is only allowed when the capacity of the course is not yet filled up. If the course capacity is filled up, the system notifies the teacher responsible for the course via email.


One of the supplementary functions of the system is the support of adding of work reports about the worked hours of external teachers, who unlike internal teachers do not receive monthly wage, but are paid solely for their worked hours.

Details

Internal Teacher

Name	Value	
Documentation	Teacher working mostly fulltime for a monthly wage.	
Visibility	public	
Abstract	false	
Leaf	false	
Root	false	
Business Model	false	
Project Management	Name	Value
	Last Modified	24.6.2014 20:57:10

Relationships


Unnamed Generalization		
From	 Teacher	
Substitutable	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24

Teacher

Name	Value
Documentation	Role of a person teaching at the institution that uses the system.
Visibility	public
Abstract	false
Leaf	false
Root	false
Business Model	false

Project Management	Name	Value
	Last Modified	24.6.2014 20:55:04


Relationships


Unnamed Association		
To	Name	Value
	End Model Element	 CourseManagement
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	private
	Aggregation Kind	None
	Navigable	Navigable
	Derived	false
	Derived Union	false
	Read Only	false
	Static	false
	Leaf	false
	Project Management	Name
	Last Modified	27.2.2011 23:19:57
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57
Unnamed Association		


To	Name		Value	
	End Model Element	● LogIn		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	Unspecified		
	Visibility	private		
	Aggregation Kind	None		
	Navigable	Navigable		
	Derived	false		
	Derived Union	false		
	Read Only	false		
	Static	false		
	Leaf	false		
	Project Management	Name		Value
Last Modified		27.2.2011 23:19:57		
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name		Value	
	Last Modified	27.2.2011 23:19:57		

Unnamed Association				
To	Name		Value	
	End Model Element	● LogOut		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	Unspecified		
	Visibility	private		
	Aggregation Kind	None		
	Navigable	Navigable		
	Derived	false		
	Derived Union	false		
	Read Only	false		
	Static	false		
	Leaf	false		
	Project Management	Name		Value
Last Modified		27.2.2011 23:19:57		
Abstract	false			

Leaf	false	
Visibility	Unspecified	
Derived	false	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Generalization		
To	 Internal Teacher	
Substitutable	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24

Unnamed Generalization		
To	 External	
Substitutable	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24



email : Association		
From	Name	Value
	End Model Element	 Notify
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	private
	Aggregation Kind	None
	Navigable	Non Navigable
	Derived	false
	Derived Union	false
	Read Only	false
	Static	false
	Leaf	false
	Project Management	Name
Last Modified		27.2.2011 23:19:57
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24

External

Name	Value	
Documentation	Teacher teaching only a limited number of hours a week, paid based on the exact number of worked hours.	
Visibility	public	
Abstract	false	
Leaf	false	
Root	false	
Business Model	false	
Project Management	Name	Value
	Last Modified	24.6.2014 20:57:10

Relationships


Unnamed Association		
To	Name	Value
	End Model Element	 ReportSubmittal
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	private
	Aggregation Kind	None
	Navigable	Navigable
	Derived	false
	Derived Union	false
	Read Only	false
	Static	false
	Leaf	false
	Project Management	Name
	Last Modified	27.2.2011 23:19:57
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	
Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24
Unnamed Generalization		
From	 Teacher	

Substitutable	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24

Student

Name	Value	
Documentation	Role of a person studying at the institution that uses the system.	
Visibility	public	
Abstract	false	
Leaf	false	
Root	false	
Business Model	false	
Project Management	Name	Value
	Last Modified	24.6.2014 20:55:04


Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Logout
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	private
	Aggregation Kind	None
	Navigable	Navigable
	Derived	false
	Derived Union	false
	Read Only	false
	Static	false
	Leaf	false
	Project Management	Name
Last Modified		27.2.2011 23:19:57
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57
Unnamed Association		

To	Name	Value	
	End Model Element	● LogIn	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	Navigable	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57	
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		
Project Management	Name	Value	
	Last Modified	27.2.2011 23:19:57	

Unnamed Association			
To	Name	Value	
	End Model Element	● CourseEnrollment	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	Navigable	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57	
Abstract	false		

Leaf	false	
Visibility	Unspecified	
Derived	false	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57


Unnamed Association		
To	Name	Value
	End Model Element	 CourseDropping
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	private
	Aggregation Kind	None
	Navigable	Navigable
	Derived	false
	Derived Union	false
	Read Only	false
	Static	false
	Leaf	false
	Project Management	Name
Last Modified		27.2.2011 23:19:57
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

DistanceStudyCourseSearch

Name	Value
Documentation	User may search for distance-study courses based on several attributes.
Abstract	false
Leaf	false
Root	false
Stereotypes	UseCase
Business Model	false
Status	Identify
Rank	Unspecified

Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24

Relationships

Unnamed Generalization		
From	 CourseSearch	
Substitutable	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24

Use Case Descriptions


Main	
Use Case ID	5
Brief Description	UC5 searches for distance study courses based on given criteria.
Primary Actors	Teacher, Student
Secondary Actors	-
Preconditions	Teacher or Student is logged in the system.
Main Flow of Events	<ol style="list-style-type: none"> 1. UC is evoked when actor (Teacher or Student) selects "Search". 2. System requests detailed search criteria from the actor. 3. Actor selects search criteria. 4. System searches for <i>distant courses</i> based on given criteria. 5. IF System finds some courses <ol style="list-style-type: none"> 5.1. System displays page containing 10 found courses at maximum 5.2. FOR EACH (found course) <ol style="list-style-type: none"> 5.2.1. System displays its name and reference link for further information. 5.3. IF there were more than 10 courses found <ol style="list-style-type: none"> 5.3.1. Actor may move forward on the page and display next 10 courses. 5.4. IF Actor is not on the first page containing search results <ol style="list-style-type: none"> 5.4.1. Actor may move back on previous pages containing precious 10 courses 6. ELSE <ol style="list-style-type: none"> 6.1. System informs Actor that no courses were found.
Alternative Flows	Actor who evokes the course may log out of the system anytime.
Post-conditions	-

ReportSubmittal

Name	Value
Documentation	Allows the external teachers to submit work reports about the worked hours.
Abstract	false
Leaf	false
Root	false
Stereotypes	UseCase
Business Model	false
Status	Identify

Rank	Unspecified	
Project Management	Name	Value
	Last Modified	24.6.2014 20:55:04


Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 External
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	private
	Aggregation Kind	None
	Navigable	Navigable
	Derived	false
	Derived Union	false
	Read Only	false
	Static	false
	Leaf	false
	Project Management	Name
Last Modified		27.2.2011 23:19:57
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	
Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24

FullTimeCourseSearch

Name	Value	
Documentation	User may search for full-time courses based on several attributes.	
Abstract	false	
Leaf	false	
Root	false	
Stereotypes	UseCase	
Business Model	false	
Status	Identify	
Rank	Unspecified	
Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24

Relationships

Unnamed Generalization		
From	 CourseSearch	
Substitutable	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24

Use Case Descriptions

Main	
Use Case ID	4
Brief Description	UC4 searches for full time courses based on given criteria.
Primary Actors	Teacher, Student
Secondary Actors	-
Preconditions	Teacher or Student is logged in the system.
Main Flow of Events	<ol style="list-style-type: none"> 1. UC is evoked when actor (Teacher or Student) selects "Search". 2. System requests detailed search criteria from the actor. 3. Actor selects search criteria. 4. System searches for <i>full time courses</i> based on given criteria. 5. IF System finds some courses <ol style="list-style-type: none"> 5.1. System displays page containing 10 found courses at maximum 5.2. FOR EACH (found course) <ol style="list-style-type: none"> 5.2.1. System displays its name and reference link for further information. 5.3. IF there were more than 10 courses found <ol style="list-style-type: none"> 5.3.1. Actor may move forward on the page and display next 10 courses. 5.4. IF Actor is not on the first page containing search results <ol style="list-style-type: none"> 5.4.1. Actor may move back on previous pages containing previous 10 courses 6. ELSE <ol style="list-style-type: none"> 6.1. System informs Actor that no courses were found.
Alternative Flows	Actor who evokes the course may log out of the system anytime.
Post-conditions	-

CourseSearch

Name	Value	
Documentation	User may search for courses based on several attributes.	
Abstract	false	
Leaf	false	
Root	false	
Stereotypes	UseCase	
Business Model	false	
Status	Identify	
Rank	Unspecified	
Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24

Relationships

Unnamed Generalization		
To	<input type="radio"/> FullTimeCourseSearch	
Substitutable	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24
Unnamed Generalization		
To	<input type="radio"/> DistanceStudyCourseSearch	
Substitutable	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24

Unnamed Include		
From	<input type="radio"/> CourseManagement	
Visibility	Unspecified	
Stereotypes	Include	
Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24

Unnamed Include		
From	<input type="radio"/> CourseDropping	
Visibility	Unspecified	
Stereotypes	Include	
Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24

Unnamed Include		
From	<input type="radio"/> CourseEnrollment	
Visibility	Unspecified	
Stereotypes	Include	
Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24

Use Case Descriptions


Main	
Use Case ID	3
Brief Description	UC3 searches for courses based on given criteria.
Primary Actors	Teacher, Student
Secondary Actors	-
Preconditions	Teacher or student is logged in the system.

Main Flow of Events	<ol style="list-style-type: none"> 1. UC is evoked when actor (Teacher or Student) selects "Search". 2. System requests detailed search criteria from the actor. 3. Actor selects search criteria. 4. System searches for courses based on given criteria. 5. IF System finds some courses <ol style="list-style-type: none"> 5.1. System displays page containing 10 found courses at maximum 5.2. FOR EACH (found course) <ol style="list-style-type: none"> 5.2.1. System displays its name and reference link for further information. 5.3. IF there were more than 10 courses found <ol style="list-style-type: none"> 5.3.1. Actor may move forward on the page and display next 10 courses. 5.4. IF Actor is not on the first page containing search results <ol style="list-style-type: none"> 5.4.1. Actor may move back on previous pages containing previous 10 courses 6. ELSE <ol style="list-style-type: none"> 6.1. System informs Actor that no courses were found.
Alternative Flows	Actor who evokes the course may log out of the system anytime.
Post-conditions	-

CourseDropping

Name	Value	
Documentation	Students may drop a course in which they are currently enrolled.	
Abstract	false	
Leaf	false	
Root	false	
Stereotypes	UseCase	
Business Model	false	
Status	Identify	
Rank	Unspecified	
Project Management	Name	Value
	Last Modified	24.6.2014 20:55:04

Relationships


Unnamed Include		
To	 CourseSearch	
Visibility	Unspecified	
Stereotypes	Include	
Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24
Unnamed Association		

From	Name	Value	
	End Model Element	👤 Student	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	Navigable	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57	
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		
Project Management	Name	Value	
	Last Modified	27.2.2011 23:19:57	

CourseManagement

Name	Value	
Documentation	Lectors may add, edit or remove selected courses.	
Abstract	false	
Leaf	false	
Root	false	
Stereotypes	UseCase	
Business Model	false	
Status	Identify	
Rank	Unspecified	
Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24

Relationships

Unnamed Include	
To	 CourseSearch
Visibility	Unspecified
Stereotypes	Include

Project Management	Name		Value	
	Last Modified		23.6.2014 19:17:24	
Unnamed Association				
From	Name		Value	
	End Model Element		Teacher	
	Provide Property Getter Method		false	
	Provide Property Setter Method		false	
	Multiplicity		Unspecified	
	Visibility		private	
	Aggregation Kind		None	
	Navigable		Navigable	
	Derived		false	
	Derived Union		false	
	Read Only		false	
	Static		false	
	Leaf		false	
	Project Management		Name	
		Last Modified	27.2.2011 23:19:57	
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name		Value	
	Last Modified		27.2.2011 23:19:57	

Sub Diagrams

Name	Documentation
 Course management	

CourseEnrollment



Name	Value
Documentation	Allows student to be electronically enrolled in the course.
Abstract	false
Leaf	false
Root	false
Stereotypes	UseCase
Business Model	false
Status	Identify
Rank	Unspecified


Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24

Extension Points

ExceededCapacity		
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Relationships

Unnamed Extend		
To	 Notify	
Visibility	Unspecified	
Stereotypes	Extend	
Extension Point	ExceededCapacity	
Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24
Unnamed Include		
To	 CourseSearch	
Visibility	Unspecified	
Stereotypes	Include	
Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24

Unnamed Association		
From	Name	Value
	End Model Element	 Student
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	private
	Aggregation Kind	None
	Navigable	Navigable
	Derived	false
	Derived Union	false
	Read Only	false
	Static	false
	Leaf	false
	Project Management	Name
Last Modified		27.2.2011 23:19:57
Abstract	false	
Leaf	false	

Visibility	Unspecified	
Derived	false	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Use Case Descriptions

Main	
Use Case ID	1
Brief Description	UC1 allows student to be electronically enrolled in the course.
Primary Actors	Student
Secondary Actors	Lector
Preconditions	Student is logged in the system.
Main Flow of Events	<ol style="list-style-type: none"> 1. UC is evoked, once Student selects "Course Enrollment" in the menu. 2. INCLUDE(CourseSearch) 3. IF at least one course was found <ol style="list-style-type: none"> 3.1. FOR EACH (course found, which has not reached full capacity yet) <ol style="list-style-type: none"> 3.1.1. System displays actual number of enrolled students and offers "Enroll in the course" 3.2. IF Student selects "Enroll in the course" <ol style="list-style-type: none"> 3.2.1. System enrolls Student in the course EXTENSION POINT(FullCapacityReached) 3.2.2. System confirms successful enrollment in the course and updates number of enrolled students in the course.
Post-conditions	List of enrolled students in the course is updated.
Alternative Flows	Student may leave the page anytime by selecting "Back to the previous page" or by logging out of the system.

Notify

Name	Value	
Documentation	System informs lector about exceeded limit in course capacity.	
Abstract	false	
Leaf	false	
Root	false	
Stereotypes	UseCase	
Business Model	false	
Status	Identify	
Rank	Unspecified	
Project Management	Name	Value
	Last Modified	23.6.2014 19:17:24

Relationships

email : Association

To	Name	Value	
	End Model Element	👤 Teacher	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	Navigable	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57	
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		
Project Management	Name	Value	
	Last Modified	23.6.2014 19:17:24	
Unnamed Extend			
From	🔵 CourseEnrollment		
Visibility	Unspecified		
Stereotypes	Extend		
Extension Point	ExceededCapacity		
Project Management	Name	Value	
	Last Modified	23.6.2014 19:17:24	

Use Case Descriptions


Main	
Use Case ID	2
Brief Description	UC2 notices teacher about exceeded capacity of a course.
Primary Actors	Student
Secondary Actors	Lector
Preconditions	1. UC was evoked through the extension point FullCapacityReached of CourseEnrollment use-case. 2. Actual number of enrolled students in a course is equal to the capacity of this course.
Main Flow of Events	1. System sends teacher an email informing him about course capacity fulfillment.

Alternative Flows	-
Post-conditions	-

Logout

Name	Value	
Documentation	As a result, user is logged out of the system.	
Abstract	false	
Leaf	false	
Root	false	
Stereotypes	UseCase	
Business Model	false	
Status	Identify	
Rank	Unspecified	
Project Management	Name	Value
	Last Modified	24.6.2014 20:55:04

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Teacher
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	private
	Aggregation Kind	None
	Navigable	Navigable
	Derived	false
	Derived Union	false
	Read Only	false
	Static	false
	Leaf	false
	Project Management	Name
Last Modified		27.2.2011 23:19:57
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57
Unnamed Association		



From	Name	Value	
	End Model Element	👤 Student	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	Navigable	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57	
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		
Project Management	Name	Value	
	Last Modified	27.2.2011 23:19:57	

Login

Name	Value	
Documentation	As a result, user is logged in the system.	
Abstract	false	
Leaf	false	
Root	false	
Stereotypes	UseCase	
Business Model	false	
Status	Identify	
Rank	Unspecified	
Project Management	Name	Value
	Last Modified	8.11.2013 16:14:34

Relationships

Unnamed Association











From	Name		Value	
	End Model Element	 Teacher		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	Unspecified		
	Visibility	private		
	Aggregation Kind	None		
	Navigable	Navigable		
	Derived	false		
	Derived Union	false		
	Read Only	false		
	Static	false		
	Leaf	false		
	Project Management	Name		Value
Last Modified		27.2.2011 23:19:57		
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name		Value	
	Last Modified	27.2.2011 23:19:57		
Unnamed Association				
From	Name		Value	
	End Model Element	 Student		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	Unspecified		
	Visibility	private		
	Aggregation Kind	None		
	Navigable	Navigable		
	Derived	false		
	Derived Union	false		
	Read Only	false		
	Static	false		
	Leaf	false		
	Project Management	Name		Value
Last Modified		27.2.2011 23:19:57		
Abstract	false			

Leaf	false	
Visibility	Unspecified	
Derived	false	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

StudySystem

Name	Value	
Documentation	<p>Study Information System</p> <p>Study information system is intended to support management of courses including electronic enrollment and course dropping.</p> <p>Management of the courses allows teachers to add new courses, remove courses and update course information, which includes a name, info, prerequisites, capacity, schedule and a distinction of full time and distance study courses.</p> <p>Students have an opportunity to electronically enroll at courses and drop a course (i.e. withdraw from it). Enrollment at courses is only allowed when the capacity of the course is not yet filled up. If the course capacity is filled up, the system notifies the teacher responsible for the course via email.</p> <p>One of the supplementary functions of the system is the support of adding of work reports about the worked hours of external teachers, who unlike internal teachers do not receive monthly wage, but are paid solely for their worked hours.</p>	
Abstract	false	
Leaf	false	
Root	false	
Project Management	Name	Value
	Last Modified	24.6.2014 20:55:04

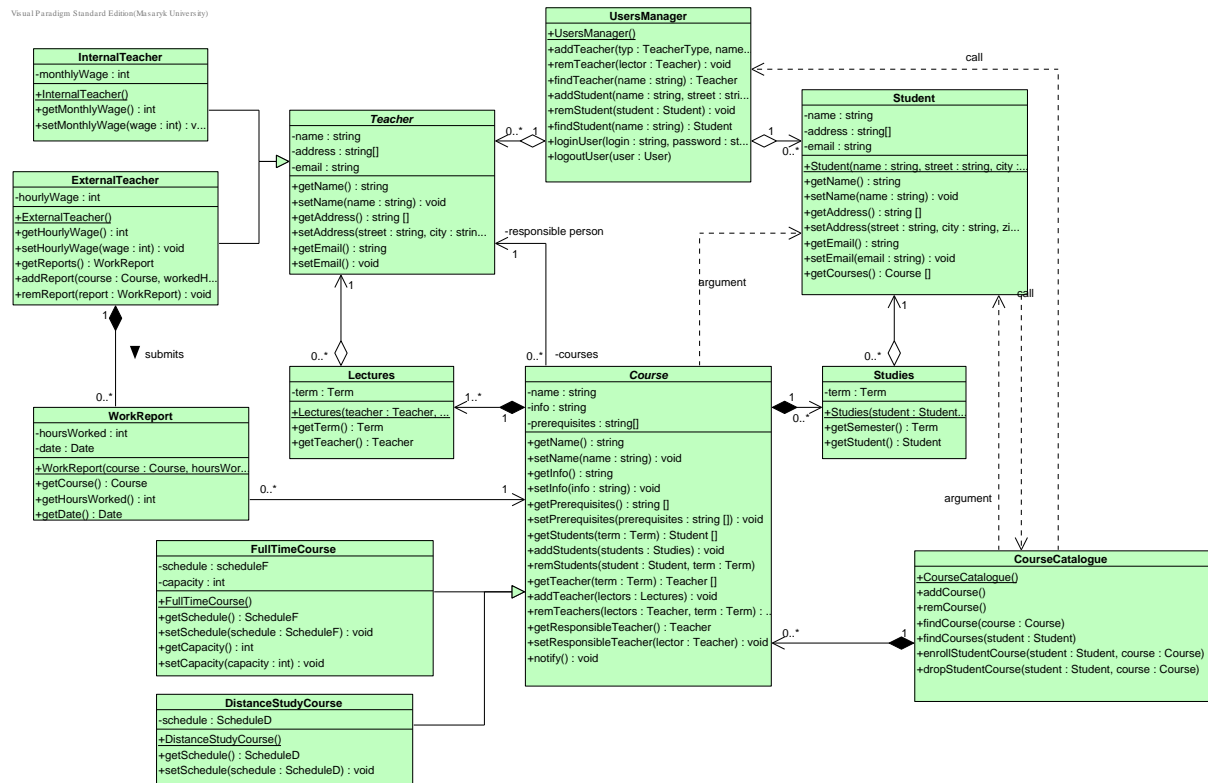
Children

Name	Documentation
 LogIn	As a result, user is logged in the system.
 LogOut	As a result, user is logged out of the system.
 Notify	System informs lector about exceeded limit in course capacity.
 CourseEnrollment	Allows student to be electronically enrolled in the course.
 CourseManagement	Lectors may add, edit or remove selected courses.
 CourseDropping	Students may drop a course in which they are currently enrolled.
 ReportSubmittal	Allows the external teachers to submit work reports about the worked hours.
 CourseSearch	User may search for courses based on several attributes.
 FullTimeCourseSearch	User may search for full-time courses based on several attributes.
 DistanceStudyCourseSearch	User may search for distance-study courses based on several attributes.

Class Diagram

Class Diagram

Visual Paradigm Standard Edition(Msarak University)



Name	Value
Name	Class Diagram
Last Modified	12.11.2014 0:00:54
Shape Presentation Option	0

Summary

Name	Documentation
UsersManager	
InternalTeacher	
Student	
Teacher	
ExternalTeacher	
Lectures	
Course	
Studies	
WorkReport	
FullTimeCourse	
CourseCatalogue	
DistanceStudyCourse	

Details

UsersManager

Name	Value	
Active	false	
Business Key Mutable	true	
Business Model	false	
Visibility	public	
Leaf	false	
Root	false	
Project Management	Name	Value
	Last Modified	29.11.2013 11:40:06

Operations


public UsersManager ()		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 16:24:34


```
public addTeacher (typ : TeacherType, name : string, street : string, city : string, zip : string, country : string, email : string, wage : int) : Teacher
```

Parameters

typ		
Multiplicity	Unspecified	
Type	TeacherType	
Direction	inout	
Project Management	Name	Value
	Last Modified	29.11.2013 11:40:06
name		
Multiplicity	Unspecified	
Type	● string	
Direction	inout	
Project Management	Name	Value
	Last Modified	8.11.2013 18:22:05
street		
Multiplicity	Unspecified	
Type	● string	
Direction	inout	
Project Management	Name	Value
	Last Modified	8.11.2013 18:22:05
city		
Multiplicity	Unspecified	
Type	● string	
Direction	inout	
Project Management	Name	Value
	Last Modified	8.11.2013 18:22:05
zip		
Multiplicity	Unspecified	
Type	● string	
Direction	inout	
Project Management	Name	Value
	Last Modified	8.11.2013 18:22:05
country		
Multiplicity	Unspecified	
Type	● string	
Direction	inout	
Project Management	Name	Value
	Last Modified	8.11.2013 18:22:05
email		
Multiplicity	Unspecified	
Type	● string	
Direction	inout	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	29.11.2013 11:40:06


public remTeacher (lector : Teacher) : void		
Parameters	lector	
	Multiplicity	Unspecified
	Type	 Teacher
	Direction	inout
	Project Management	Name
Last Modified		8.11.2013 18:22:05
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	29.11.2013 11:40:06


public findTeacher (name : string) : Teacher		
Parameters	name	
	Multiplicity	Unspecified
	Type	 string
	Direction	inout
	Project Management	Name
Last Modified		8.11.2013 18:22:05
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	29.11.2013 11:40:06

public addStudent (name : string, street : string, city : string, zip : string, country : string, email : string) : Student

Parameters	name			
	Multiplicity	Unspecified		
	Type	● string		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	8.11.2013 18:22:05	
	street			
	Multiplicity	Unspecified		
	Type	● string		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	8.11.2013 18:22:05	
	city			
	Multiplicity	Unspecified		
	Type	● string		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	8.11.2013 18:22:05	
	zip			
	Multiplicity	Unspecified		
	Type	● string		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	8.11.2013 18:22:05	
	country			
	Multiplicity	Unspecified		
	Type	● string		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	8.11.2013 18:22:05	
	email			
	Multiplicity	Unspecified		
	Type	● string		
Direction	inout			
Project Management	Name	Value		
	Last Modified	27.2.2011 23:19:57		
Leaf	false			
Ordered	false			

Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 18:22:05

public remStudent (student : Student) : void		
Parameters	student	
	Multiplicity	Unspecified
	Type	 Student
	Direction	inout
	Project Management	Name
Last Modified		27.2.2011 23:19:57
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 18:22:05

public findStudent (name : string) : Student		
Parameters	name	
	Multiplicity	Unspecified
	Type	 string
	Direction	inout
	Project Management	Name
Last Modified		8.11.2013 18:22:05
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 18:22:05



public loginUser (login : string, password : string) : User		
---	--	--

Parameters	login		
	Multiplicity	Unspecified	
	Type	● string	
	Direction	inout	
	Project Management	Name	Value
		Last Modified	27.2.2011 23:19:57
	password		
	Multiplicity	Unspecified	
	Type	● string	
	Direction	inout	
Project Management	Name	Value	
	Last Modified	8.11.2013 18:22:05	
Leaf	false		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 18:22:05	


public logoutUser (user : User)				
Parameters	user			
	Multiplicity	Unspecified		
	Type	User		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	8.11.2013 19:14:49	
	Leaf	false		
	Ordered	false		
	Unique	true		
	Query	false		
Project Management	Name	Value		
	Last Modified	8.11.2013 18:22:05		

Relationships

Unnamed Association

To	Name		Value	
	End Model Element	 Teacher		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	0..*		
	Visibility	private		
	Aggregation Kind	None		
	Navigable	Navigable		
	Derived	false		
	Derived Union	false		
	Read Only	false		
	Static	false		
	Leaf	false		
	Project Management	Name		Value
Last Modified		27.2.2011 23:19:57		
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name		Value	
	Last Modified	8.11.2013 17:54:38		
Unnamed Association				
To	Name		Value	
	End Model Element	 Student		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	0..*		
	Visibility	private		
	Aggregation Kind	None		
	Navigable	Navigable		
	Derived	false		
	Derived Union	false		
	Read Only	false		
	Static	false		
	Leaf	false		
	Project Management	Name		Value
Last Modified		27.2.2011 23:19:57		
Abstract	false			


Leaf	false	
Visibility	Unspecified	
Derived	false	
Project Management	Name	Value
	Last Modified	8.11.2013 17:54:38

call : Dependency		
From	 CourseCatalogue	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

InternalTeacher

Name	Value	
Active	false	
Business Key Mutable	true	
Business Model	false	
Visibility	public	
Leaf	false	
Root	false	
Project Management	Name	Value
	Last Modified	29.11.2013 12:54:34

Attributes


private monthlyWage : int			
Type	 int		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 16:24:34	

Operations


public InternalTeacher ()	
Leaf	false
Ordered	false

Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	29.11.2013 11:40:06

public getMonthlyWage () : int		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 16:24:34

public setMonthlyWage (wage : int) : void		
Parameters	wage	
	Multiplicity	Unspecified
	Type	 int
	Direction	inout
	Project Management	Name
Last Modified		29.11.2013 12:54:34
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 16:24:34

Relationships

Unnamed Generalization		
From	 Teacher	
Substitutable	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Student

Name	Value
Active	false
Business Key Mutable	true
Business Model	false
Visibility	public
Leaf	false

Root	false	
Project Management	Name	Value
	Last Modified	8.11.2013 19:14:49

Attributes

private name : string			
Type	<input checked="" type="radio"/> string		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 19:04:49	

private address : string			
Type Modifier	[]		
Type	<input checked="" type="radio"/> string		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 19:14:49	

private email : string			
Type	<input checked="" type="radio"/> string		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		

Read Only	false	
Is ID	false	
Leaf	false	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57


Operations

`public Student (name : string, street : string, city : string, zip : string, country : string, email : string)`

Parameters	name			
	Multiplicity	Unspecified		
	Type	● string		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	8.11.2013 19:14:49	
	street			
	Multiplicity	Unspecified		
	Type	● string		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	8.11.2013 19:14:49	
	city			
	Multiplicity	Unspecified		
	Type	● string		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	8.11.2013 19:14:49	
	zip			
	Multiplicity	Unspecified		
	Type	● string		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	8.11.2013 19:14:49	
	country			
	Multiplicity	Unspecified		
	Type	● string		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	8.11.2013 19:14:49	
	email			
	Multiplicity	Unspecified		
	Type	● string		
Direction	inout			
Project Management	Name	Value		
	Last Modified	27.2.2011 23:19:57		
Leaf	false			
Ordered	false			

Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

public getName () : string		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 19:14:49

public setName (name : string) : void		
Parameters	name	
	Multiplicity	Unspecified
	Type	 string
	Direction	inout
	Project Management	Name
Last Modified		8.11.2013 19:14:49
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 19:14:49

public getAddress () : string		
Leaf	false	
Type Modifier	[]	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 19:14:49

public setAddress (street : string, city : string, zip : string, country : string) : void		
---	--	--

Parameters	street			
	Multiplicity	Unspecified		
	Type	● string		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	8.11.2013 19:14:49	
	city			
	Multiplicity	Unspecified		
	Type	● string		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	8.11.2013 19:14:49	
	zip			
	Multiplicity	Unspecified		
	Type	● string		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	8.11.2013 19:14:49	
	country			
	Multiplicity	Unspecified		
Type	● string			
Direction	inout			
Project Management	Name	Value		
	Last Modified	8.11.2013 19:14:49		
Leaf	false			
Ordered	false			
Unique	true			
Query	false			
Project Management	Name	Value		
	Last Modified	8.11.2013 19:14:49		


public getEmail () : string			
Leaf	false		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Last Modified	27.2.2011 23:19:57	



public setEmail (email : string) : void

Parameters	email		
	Multiplicity	Unspecified	
	Type	● string	
	Direction	inout	
	Project Management	Name	Value
Last Modified		27.2.2011 23:19:57	
Leaf	false		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Last Modified	27.2.2011 23:19:57	


public getCourses () : Course		
Leaf	false	
Type Modifier	[]	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 19:14:49


Relationships

call : Dependency		
To	 CourseCatalogue	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57
Unnamed Association		

From	Name		Value		
	End Model Element	 UsersManager			
	Provide Property Getter Method	false			
	Provide Property Setter Method	false			
	Multiplicity	1			
	Visibility	private			
	Aggregation Kind	Aggregation			
	Navigable	Unspecified			
	Derived	false			
	Derived Union	false			
	Read Only	false			
	Static	false			
	Leaf	false			
	Project Management	Name		Value	
		Last Modified		27.2.2011 23:19:57	
Abstract	false				
Leaf	false				
Visibility	Unspecified				
Derived	false				
Project Management	Name		Value		
	Last Modified		8.11.2013 17:54:38		
Unnamed Association					
From	Name		Value		
	End Model Element	 Studies			
	Provide Property Getter Method	false			
	Provide Property Setter Method	false			
	Multiplicity	0..*			
	Visibility	private			
	Aggregation Kind	Aggregation			
	Navigable	Unspecified			
	Derived	false			
	Derived Union	false			
	Read Only	false			
	Static	false			
	Leaf	false			
	Project Management	Name		Value	
		Last Modified		27.2.2011 23:19:57	
Abstract	false				

Leaf	false	
Visibility	Unspecified	
Derived	false	
Project Management	Name	Value
	Last Modified	8.11.2013 17:54:38


argument : Dependency		
From	 Course	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

argument : Dependency		
From	 CourseCatalogue	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Teacher

Name	Value	
Active	false	
Business Key Mutable	true	
Business Model	false	
Visibility	public	
Leaf	false	
Root	false	
Project Management	Name	Value
	Last Modified	11.11.2014 23:31:39

Attributes

private name : string			
Type	 string		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		

Project Management	Name	Value
	Last Modified	8.11.2013 16:24:34

private address : string			
Type Modifier	[]		
Type	<input checked="" type="radio"/> string		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 16:24:34	

private email : string			
Type	<input checked="" type="radio"/> string		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Last Modified	27.2.2011 23:19:57	

Operations

public getName () : string		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 16:24:34

public setName (name : string) : void		
---------------------------------------	--	--

Parameters	name		
	Multiplicity	Unspecified	
	Type	● string	
	Direction	inout	
	Project Management	Name	Value
Last Modified		8.11.2013 17:54:38	
Leaf	false		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 16:24:34	

public getAddress () : string			
Leaf	false		
Type Modifier	[]		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 16:24:34	

public setAddress (street : string, city : string, zip : string, country : string) : void



Parameters	street			
	Multiplicity	Unspecified		
	Type	● string		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	8.11.2013 17:54:38	
	city			
	Multiplicity	Unspecified		
	Type	● string		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	8.11.2013 17:54:38	
	zip			
	Multiplicity	Unspecified		
	Type	● string		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	8.11.2013 17:54:38	
	country			
	Multiplicity	Unspecified		
Type	● string			
Direction	inout			
Project Management	Name	Value		
	Last Modified	8.11.2013 17:54:38		
Leaf	false			
Ordered	false			
Unique	true			
Query	false			
Project Management	Name	Value		
	Last Modified	8.11.2013 16:24:34		


public getEmail () : string			
Leaf	false		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Last Modified	27.2.2011 23:19:57	

public setEmail () : void		
----------------------------------	--	--


Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57


Relationships

Unnamed Generalization		
To	 InternalTeacher	
Substitutable	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57
Unnamed Generalization		
To	 ExternalTeacher	
Substitutable	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Association			
To (courses)	Name	Value	
	End Model Element	 Course	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	0..*	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	Unspecified	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Project Management	Name	Value
		Last Modified	27.2.2011 23:19:57
Abstract	false		
Leaf	false		
Visibility	Unspecified		

Derived	false	
Project Management	Name	Value
	Last Modified	8.11.2013 17:54:38


Unnamed Association		
From	Name	Value
	End Model Element	 UsersManager
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1
	Visibility	private
	Aggregation Kind	Aggregation
	Navigable	Unspecified
	Derived	false
	Derived Union	false
	Read Only	false
	Static	false
	Leaf	false
	Project Management	Name
	Last Modified	27.2.2011 23:19:57
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	
Project Management	Name	Value
	Last Modified	8.11.2013 17:54:38
Unnamed Association		

From	Name		Value	
	End Model Element	 Lectures		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	0..*		
	Visibility	private		
	Aggregation Kind	Aggregation		
	Navigable	Unspecified		
	Derived	false		
	Derived Union	false		
	Read Only	false		
	Static	false		
	Leaf	false		
	Project Management	Name		Value
Last Modified		27.2.2011 23:19:57		
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name		Value	
	Last Modified	8.11.2013 17:54:38		

ExternalTeacher

Name		Value		
Active	false			
Business Key Mutable	true			
Business Model	false			
Visibility	public			
Leaf	false			
Root	false			
Project Management	Name		Value	
	Last Modified	29.11.2013 11:40:06		

Attributes

private hourlyWage : int			
Type	 int		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		

Multiplicity	Unspecified	
Aggregation	None	
Derived Union	false	
Read Only	false	
Is ID	false	
Leaf	false	
Project Management	Name	Value
	Last Modified	8.11.2013 17:44:38

Operations



public ExternalTeacher ()		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	29.11.2013 11:40:06


public getHourlyWage () : int		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 17:44:38

public setHourlyWage (wage : int) : void			
Parameters	wage		
	Multiplicity	Unspecified	
	Type	int	
	Direction	inout	
	Project Management	Name	Value
Last Modified		8.11.2013 17:54:38	
Leaf	false		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 17:44:38	

public getReports () : WorkReport	
Leaf	false



Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 17:44:38

public addReport (course : Course, workedHours : int, date : Date) : WorkReport			
Parameters	course		
	Multiplicity	Unspecified	
	Type	 Course	
	Direction	inout	
	Project Management	Name	Value
		Last Modified	8.11.2013 17:54:38
	workedHours		
	Multiplicity	Unspecified	
	Type	 int	
	Direction	inout	
	Project Management	Name	Value
		Last Modified	8.11.2013 17:54:38
	date		
	Multiplicity	Unspecified	
	Type	Date	
Direction	inout		
Project Management	Name	Value	
	Last Modified	8.11.2013 17:54:38	
Leaf	false		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 17:44:38	

public remReport (report : WorkReport) : void		
Parameters	report	
	Multiplicity	Unspecified
	Type	 WorkReport
	Direction	inout
	Project Management	Name
Last Modified		8.11.2013 17:54:38
Leaf	false	

Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 17:44:38

Relationships

submits : Association		
To	Name	Value
	End Model Element	 WorkReport
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	0..*
	Visibility	private
	Aggregation Kind	None
	Navigable	Navigable
	Derived	false
	Derived Union	false
	Read Only	false
	Static	false
	Leaf	false
	Project Management	Name
Last Modified		27.2.2011 23:19:57
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	
Project Management	Name	Value
	Last Modified	29.11.2013 12:39:12
Unnamed Generalization		
From	 Teacher	
Substitutable	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Lectures

Name	Value
Active	false
Business Key Mutable	true

Business Model	false	
Visibility	public	
Leaf	false	
Root	false	
Project Management	Name	Value
	Last Modified	29.11.2013 11:40:06

Attributes

private term : Term			
Type	Term		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 18:04:47	

Operations


public Lectures (teacher : Teacher, course : Course, term : Term)


Parameters	teacher		
	Multiplicity	Unspecified	
	Type	Teacher	
	Direction	inout	
	Project Management	Name	Value
		Last Modified	29.11.2013 11:40:06
	course		
	Multiplicity	Unspecified	
	Type	Course	
	Direction	inout	
	Project Management	Name	Value
		Last Modified	8.11.2013 17:54:38
	term		
	Multiplicity	Unspecified	
	Type	Term	
Direction	inout		
Project Management	Name	Value	
	Last Modified	8.11.2013 18:04:47	
Leaf	false		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 17:54:38	

public getTerm () : Term		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 18:04:47

public getTeacher () : Teacher		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	29.11.2013 11:40:06

Relationships


Unnamed Association		
To	Name	Value
	End Model Element	 Teacher
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1
	Visibility	private
	Aggregation Kind	None
	Navigable	Navigable
	Derived	false
	Derived Union	false
	Read Only	false
	Static	false
	Leaf	false
	Project Management	Name
	Last Modified	27.2.2011 23:19:57
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	
Project Management	Name	Value
	Last Modified	8.11.2013 17:54:38
Unnamed Association		

From	Name	Value	
	End Model Element	 Course	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	1	
	Visibility	private	
	Aggregation Kind	Composited	
	Navigable	Unspecified	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57	
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 17:54:38	

Course

Name	Value		
Active	false		
Business Key Mutable	true		
Business Model	false		
Visibility	public		
Leaf	false		
Root	false		
Project Management	Name	Value	
	Last Modified	11.11.2014 23:33:30	

Attributes

private name : string			
Type	 string		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		

Aggregation	None	
Derived Union	false	
Read Only	false	
Is ID	false	
Leaf	false	
Project Management	Name	Value
	Last Modified	8.11.2013 18:14:47


private info : string			
Type	<input checked="" type="radio"/> string		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 18:14:47	

private prerequisites : string			
Type Modifier	[]		
Type	<input checked="" type="radio"/> string		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 18:14:47	


Operations

public getName () : string	
Leaf	false
Ordered	false
Unique	true

Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 18:04:47

public setName (name : string) : void		
Parameters	name	
	Multiplicity	Unspecified
	Type	 string
	Direction	inout
	Project Management	Name
Last Modified		8.11.2013 18:14:47
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 18:14:47

public getInfo () : string		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 18:14:47

public setInfo (info : string) : void		
Parameters	info	
	Multiplicity	Unspecified
	Type	 string
	Direction	inout
	Project Management	Name
Last Modified		8.11.2013 18:14:47
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 18:14:47

public getPrerequisites () : string		
Leaf	false	

Type Modifier	[]	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 18:14:47


public setPrerequisites (prerequisites : string) : void


Parameters	prerequisites	
	Multiplicity	Unspecified
	Type Modifier	[]
	Type	● string
	Direction	inout
	Project Management	Name
Last Modified		8.11.2013 18:14:47
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 18:14:47

public getStudents (term : Term) : Student

Parameters	term	
	Multiplicity	Unspecified
	Type	Term
	Direction	inout
	Project Management	Name
Last Modified		8.11.2013 18:22:05
Leaf	false	
Type Modifier	[]	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 18:14:47


public addStudents (students : Studies) : void


Parameters	students		
	Multiplicity	Unspecified	
	Type	 Studies	
	Direction	inout	
	Project Management	Name	Value
Last Modified		8.11.2013 18:14:47	
Leaf	false		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Last Modified	11.11.2014 23:33:30	

public remStudents (student : Student, term : Term)				
Parameters	student			
	Multiplicity	Unspecified		
	Type	 Student		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	27.2.2011 23:19:57	
	term			
	Multiplicity	Unspecified		
	Type	Term		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	8.11.2013 18:14:47	
	Leaf	false		
	Ordered	false		
	Unique	true		
Query	false			
Project Management	Name	Value		
	Last Modified	8.11.2013 18:14:47		


public getTeacher (term : Term) : Teacher				
Parameters	term			
	Multiplicity	Unspecified		
	Type	Term		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	8.11.2013 18:14:47	
Leaf	false			

Type Modifier	[]	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	29.11.2013 11:40:06

public addTeacher (lectors : Lectures) : void			
Parameters	lectors		
	Multiplicity	Unspecified	
	Type	 Lectures	
	Direction	inout	
	Project Management	Name	Value
		Last Modified	8.11.2013 18:14:47
Leaf	false		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Last Modified	29.11.2013 11:40:06	


public remTeachers (lectors : Teacher, term : Term) : void			
Parameters	lectors		
	Multiplicity	Unspecified	
	Type	 Teacher	
	Direction	inout	
	Project Management	Name	Value
		Last Modified	8.11.2013 18:14:47
	term		
	Multiplicity	Unspecified	
	Type	Term	
	Direction	inout	
	Project Management	Name	Value
		Last Modified	8.11.2013 18:14:47
	Leaf	false	
	Ordered	false	
Unique	true		
Query	false		
Project Management	Name	Value	
	Last Modified	29.11.2013 11:40:06	


public getResponsibleTeacher () : Teacher		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	29.11.2013 11:40:06

public setResponsibleTeacher (lector : Teacher) : void		
Parameters	lector	
	Multiplicity	Unspecified
	Type	 Teacher
	Direction	inout
	Project Management	Name
Last Modified		8.11.2013 18:14:47
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	29.11.2013 11:40:06

public notify () : void		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	29.11.2013 12:54:34


Relationships

Unnamed Generalization		
To	 FullTimeCourse	
Substitutable	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57


Unnamed Generalization		
To	 DistanceStudyCourse	
Substitutable	false	
Visibility	Unspecified	


Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Association



To	Name	Value		
	End Model Element	 Lectures		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	1..*		
	Visibility	private		
	Aggregation Kind	None		
	Navigable	Navigable		
	Derived	false		
	Derived Union	false		
	Read Only	false		
	Static	false		
	Leaf	false		
	Project Management	Name	Value	
		Last Modified	27.2.2011 23:19:57	
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name	Value		
	Last Modified	8.11.2013 17:54:38		

Unnamed Association


To	Name		Value	
	End Model Element	 Studies		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	0..*		
	Visibility	private		
	Aggregation Kind	None		
	Navigable	Navigable		
	Derived	false		
	Derived Union	false		
	Read Only	false		
	Static	false		
	Leaf	false		
	Project Management	Name		Value
Last Modified		27.2.2011 23:19:57		
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name		Value	
	Last Modified	8.11.2013 17:54:38		

argument : Dependency				
To	 Student			
Visibility	Unspecified			
Project Management	Name		Value	
	Last Modified	27.2.2011 23:19:57		

Unnamed Association

From (responsible person)	Name		Value	
	End Model Element	 Teacher		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	1		
	Visibility	private		
	Aggregation Kind	None		
	Navigable	Navigable		
	Derived	false		
	Derived Union	false		
	Read Only	false		
	Static	false		
	Leaf	false		
	Project Management	Name		Value
Last Modified		27.2.2011 23:19:57		
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name		Value	
	Last Modified	8.11.2013 17:54:38		
Unnamed Association				
From	Name		Value	
	End Model Element	 WorkReport		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	0..*		
	Visibility	private		
	Aggregation Kind	None		
	Navigable	Unspecified		
	Derived	false		
	Derived Union	false		
	Read Only	false		
	Static	false		
	Leaf	false		
	Project Management	Name		Value
Last Modified		27.2.2011 23:19:57		
Abstract	false			

Leaf	false	
Visibility	Unspecified	
Derived	false	
Project Management	Name	Value
	Last Modified	8.11.2013 17:54:38

Unnamed Association		
From	Name	Value
	End Model Element	 CourseCatalogue
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1
	Visibility	private
	Aggregation Kind	Composited
	Navigable	Unspecified
	Derived	false
	Derived Union	false
	Read Only	false
	Static	false
	Leaf	false
	Project Management	Name
Last Modified		27.2.2011 23:19:57
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	
Project Management	Name	Value
	Last Modified	8.11.2013 17:54:38



Studies

Name	Value	
Active	false	
Business Key Mutable	true	
Business Model	false	
Visibility	public	
Leaf	false	
Root	false	
Project Management	Name	Value
	Last Modified	11.11.2014 23:33:30

Attributes

private term : Term			
Type	Term		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name		Value
	Last Modified		8.11.2013 19:14:49

Operations


public Studies (student : Student, course : Course, term : Term)				
Parameters	student			
	Multiplicity	Unspecified		
	Type	 Student		
	Direction	inout		
	Project Management	Name		Value
		Last Modified		27.2.2011 23:19:57
	course			
	Multiplicity	Unspecified		
	Type	 Course		
	Direction	inout		
	Project Management	Name		Value
		Last Modified		8.11.2013 19:14:49
	term			
	Multiplicity	Unspecified		
	Type	Term		
	Direction	inout		
	Project Management	Name		Value
		Last Modified		8.11.2013 19:14:49
	Leaf	false		
Ordered	false			
Unique	true			
Query	false			


Project Management	Name	Value
	Last Modified	11.11.2014 23:33:30

public getSemester () : Term		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 19:14:49

public getStudent () : Student		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Relationships

Unnamed Association			
To	Name	Value	
	End Model Element	 Student	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	1	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	Navigable	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Project Management	Name	Value
		Last Modified	27.2.2011 23:19:57
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		

Project Management	Name		Value	
	Last Modified		8.11.2013 17:54:38	
Unnamed Association				
From	Name		Value	
	End Model Element		 Course	
	Provide Property Getter Method		false	
	Provide Property Setter Method		false	
	Multiplicity		1	
	Visibility		private	
	Aggregation Kind		Composited	
	Navigable		Unspecified	
	Derived		false	
	Derived Union		false	
	Read Only		false	
	Static		false	
	Leaf		false	
	Project Management		Name	Value
		Last Modified	27.2.2011 23:19:57	
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name		Value	
	Last Modified		8.11.2013 17:54:38	

WorkReport

Name	Value	
Active	false	
Business Key Mutable	true	
Business Model	false	
Visibility	public	
Leaf	false	
Root	false	
Project Management	Name	Value
	Last Modified	8.11.2013 17:54:38

Attributes



private hoursWorked : int	
Type	 int
Allow Empty Name	false

Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name		Value
	Last Modified		8.11.2013 17:54:38

private date : Date			
Type	Date		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name		Value
	Last Modified		8.11.2013 17:54:38

Operations

public WorkReport (course : Course, hoursWorked : int, date : Date)


Parameters	course		
	Multiplicity	Unspecified	
	Type	 Course	
	Direction	inout	
	Project Management	Name	Value
		Last Modified	8.11.2013 17:54:38
	hoursWorked		
	Multiplicity	Unspecified	
	Type	 int	
	Direction	inout	
	Project Management	Name	Value
		Last Modified	8.11.2013 17:54:38
	date		
	Multiplicity	Unspecified	
	Type	Date	
Direction	inout		
Project Management	Name	Value	
	Last Modified	8.11.2013 17:54:38	
Leaf	false		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 17:54:38	

public getCourse () : Course		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 17:54:38

public getHoursWorked () : int		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 17:54:38

public getDate () : Date		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 17:54:38

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Course
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1
	Visibility	private
	Aggregation Kind	None
	Navigable	Navigable
	Derived	false
	Derived Union	false
	Read Only	false
	Static	false
	Leaf	false
	Project Management	Name
Last Modified		27.2.2011 23:19:57
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	
Project Management	Name	Value
	Last Modified	8.11.2013 17:54:38
submits : Association		

From	Name	Value	
	End Model Element	ExternalTeacher	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	1	
	Visibility	private	
	Aggregation Kind	Composited	
	Navigable	Navigable	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Project Management	Name	Value
Last Modified		27.2.2011 23:19:57	
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		
Project Management	Name	Value	
	Last Modified	29.11.2013 12:39:12	

FullTimeCourse

Name	Value		
Active	false		
Business Key Mutable	true		
Business Model	false		
Visibility	public		
Leaf	false		
Root	false		
Project Management	Name	Value	
	Last Modified	29.11.2013 12:54:34	

Attributes

private schedule : scheduleF			
Type	scheduleF		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		

Aggregation	None	
Derived Union	false	
Read Only	false	
Is ID	false	
Leaf	false	
Project Management	Name	Value
	Last Modified	8.11.2013 18:04:47

private capacity : int			
Type	● int		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 18:04:47	

Operations

public FullTimeCourse ()		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 18:04:47

public getSchedule () : ScheduleF		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	29.11.2013 12:54:34


public setSchedule (schedule : ScheduleF) : void		
--	--	--

Parameters	schedule		
	Multiplicity	Unspecified	
	Type	ScheduleF	
	Direction	inout	
	Project Management	Name	Value
Last Modified		8.11.2013 18:04:47	
Leaf	false		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 18:04:47	

public getCapacity () : int		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 18:14:47

public setCapacity (capacity : int) : void		
Parameters	capacity	
	Multiplicity	Unspecified
	Type	● int
	Direction	inout
	Project Management	Name
Last Modified		8.11.2013 18:04:47
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 18:04:47

Relationships

Unnamed Generalization		
From	 Course	
Substitutable	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

CourseCatalogue

Name	Value	
Active	false	
Business Key Mutable	true	
Business Model	false	
Visibility	public	
Leaf	false	
Root	false	
Project Management	Name	Value
	Last Modified	11.11.2014 23:33:30


Operations

public CourseCatalogue ()		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 19:14:49


public addCourse ()		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	15.7.2014 13:23:26

public remCourse ()		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	15.7.2014 13:23:26



public findCourse (course : Course)		
-------------------------------------	--	--

Parameters	course		
	Multiplicity	Unspecified	
	Type	 Course	
	Direction	inout	
	Project Management	Name	Value
Last Modified		8.11.2013 19:14:49	
Leaf	false		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 19:14:49	



public findCourses (student : Student)

Parameters	student		
	Multiplicity	Unspecified	
	Type	 Student	
	Direction	inout	
	Project Management	Name	Value
Last Modified		27.2.2011 23:19:57	
Leaf	false		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 19:14:49	

public enrollStudentCourse (student : Student, course : Course)


Parameters	student			
	Multiplicity	Unspecified		
	Type	 Student		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	27.2.2011 23:19:57	
	course			
	Multiplicity	Unspecified		
	Type	 Course		
	Direction	inout		
	Project Management	Name	Value	
		Last Modified	8.11.2013 19:14:49	
	Leaf	false		

Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	11.11.2014 23:33:30

public dropStudentCourse (student : Student, course : Course)			
Parameters	student		
	Multiplicity	Unspecified	
	Type	 Student	
	Direction	inout	
	Project Management	Name	Value
		Last Modified	27.2.2011 23:19:57
	course		
	Multiplicity	Unspecified	
	Type	 Course	
	Direction	inout	
	Project Management	Name	Value
		Last Modified	8.11.2013 19:14:49
Leaf	false		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 19:14:49	

Relationships

Unnamed Association

To	Name	Value	
	End Model Element	 Course	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	0..*	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	Navigable	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57	

Abstract	false
----------	-------

Leaf	false
------	-------

Visibility	Unspecified
------------	-------------

Derived	false
---------	-------

Project Management	Name	Value
	Last Modified	8.11.2013 17:54:38

call : Dependency

To	 UsersManager
----	--

Visibility	Unspecified
------------	-------------

Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

argument : Dependency

To	 Student
----	---

Visibility	Unspecified
------------	-------------

Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

call : Dependency

From	 Student
------	---

Visibility	Unspecified
------------	-------------

Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

 **DistanceStudyCourse**

Name	Value	
Active	false	
Business Key Mutable	true	
Business Model	false	
Visibility	public	
Leaf	false	
Root	false	
Project Management	Name	Value
	Last Modified	29.11.2013 13:25:36

Attributes

private schedule : ScheduledD			
Type	ScheduledD		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Last Modified	8.11.2013 18:22:05	


Operations

public DistanceStudyCourse ()	
Leaf	false
Ordered	false
Unique	true
Query	false
Project Management	Name
	Last Modified

public getSchedule () : ScheduledD	
Leaf	false
Ordered	false
Unique	true
Query	false
Project Management	Name
	Last Modified

public setSchedule (schedule : ScheduledD) : void		
Parameters	schedule	
	Multiplicity	Unspecified
	Type	ScheduledD
	Direction	inout
	Project Management	Name
Last Modified		29.11.2013 13:25:36
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Last Modified	8.11.2013 18:22:05

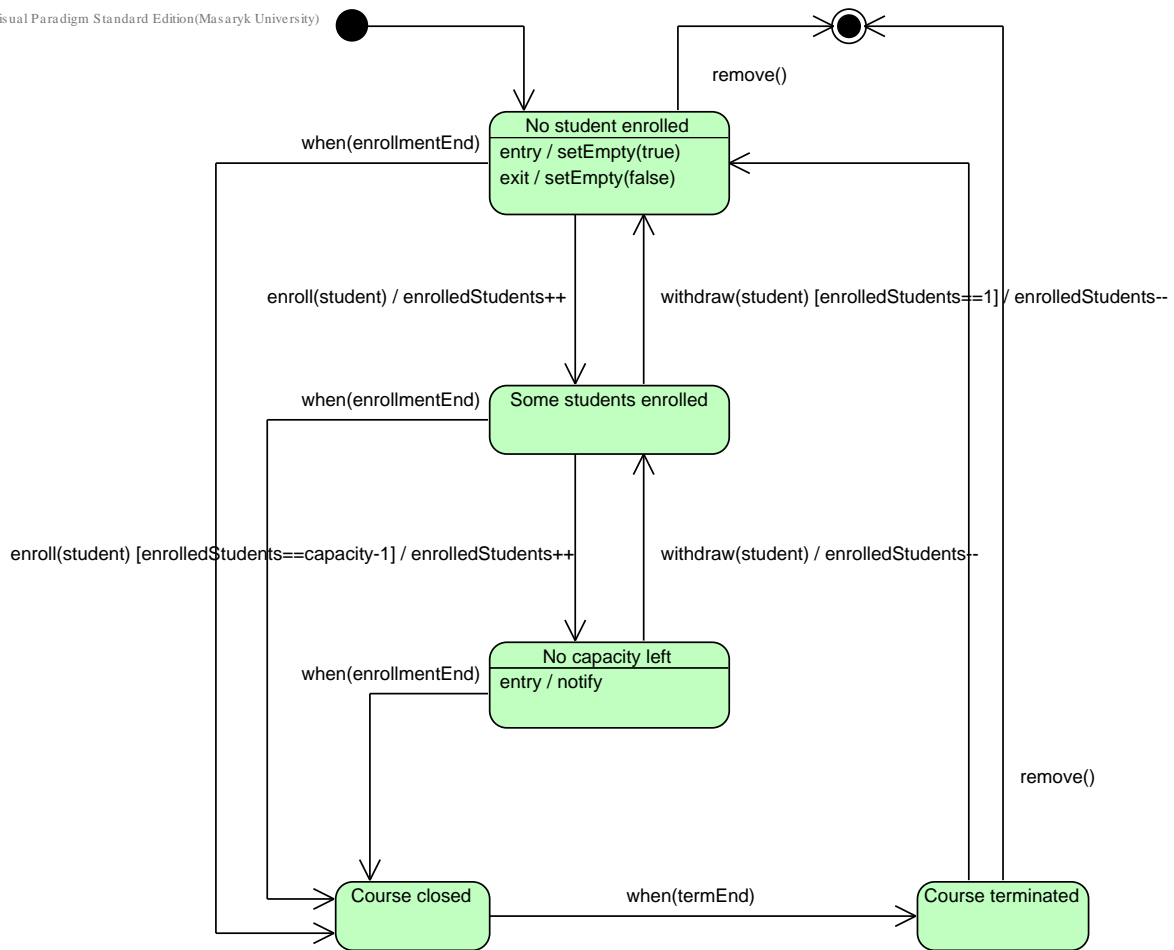
Relationships

Unnamed Generalization		
From	 Course	
Substitutable	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

State Machine Diagram

Course state machine diagram

Visual Paradigm Standard Edition(Masaryk University)



Name	Value
Name	Course state machine diagram
Last Modified	11.11.2014 23:36:16
Shape Presentation Option	0

Summary


Name	Documentation
● Initial	
☐ No student enrolled	
☐ Some students enrolled	
☐ No capacity left	
☐ Course closed	
☐ Course terminated	
⦿ FinalState	

Details



● Initial

Name	Value	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Relationships

Unnamed Transition		
To	 No student enrolled	
Kind	External	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

No student enrolled

Name	Value	
Entry	 setEmpty(true)	
Exit	 setEmpty(false)	
Project Management	Name	Value
	Last Modified	9.11.2013 10:55:41



Entry

Name	Value	
Reentrant	false	
Single Execution	false	
Read Only	false	
Body	setPrazdny(true)	
Body Font Size	0	
Project Management	Name	Value
	Last Modified	9.11.2013 10:55:41

Exit


Name	Value	
Reentrant	false	
Single Execution	false	
Read Only	false	
Body Font Size	0	
Project Management	Name	Value
	Last Modified	9.11.2013 10:55:41



Regions

Name	Documentation
 setEmpty(true)	
 setEmpty(false)	


Relationships



remove() : Transition		
To	<input checked="" type="radio"/> FinalState	
Kind	External	
Project Management	Name	Value
	Last Modified	9.11.2013 10:57:42

Unnamed Transition		
To	 Course closed	
Kind	External	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Transition		
To	 Some students enrolled	
Kind	External	
Effect	 enrolledStudents++	
Project Management	Name	Value
	Last Modified	9.11.2013 10:55:41

Unnamed Transition		
From	<input checked="" type="radio"/> Initial	
Kind	External	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57


Unnamed Transition		
From	 Course terminated	
Kind	External	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57



Unnamed Transition		
From	 Some students enrolled	
Kind	External	
Guard	enrolledStudents==1	
Effect	 enrolledStudents--	
Project Management	Name	Value
	Last Modified	9.11.2013 10:55:41



Some students enrolled



Name	Value	
Project Management	Name	Value
	Last Modified	8.11.2013 19:45:10



Relationships

Unnamed Transition		
To	 Course closed	
Kind	External	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Transition		
To	 No student enrolled	
Kind	External	
Guard	enrolledStudents==1	
Effect	 enrolledStudents--	
Project Management	Name	Value
	Last Modified	9.11.2013 10:55:41

Unnamed Transition		
To	 No capacity left	
Kind	External	
Guard	enrolledStudents==capacity-1	
Effect	 enrolledStudents++	
Project Management	Name	Value
	Last Modified	9.11.2013 10:57:42

Unnamed Transition		
From	 No student enrolled	
Kind	External	
Effect	 enrolledStudents++	
Project Management	Name	Value
	Last Modified	9.11.2013 10:55:41

Unnamed Transition		
From	 No capacity left	
Kind	External	
Effect	 enrolledStudents--	
Project Management	Name	Value
	Last Modified	9.11.2013 10:57:42

No capacity left

Name	Value	
Entry	 notify	
Project Management	Name	Value
	Last Modified	11.11.2014 23:33:30


Entry



Name	Value	
Reentrant	false	
Single Execution	false	
Read Only	false	
Body Font Size	0	
Project Management	Name	Value
	Last Modified	29.11.2013 12:54:34



Regions

Name	Documentation
 notify	

Relationships

Unnamed Transition		
To	 Course closed	
Kind	External	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Transition		
To	 Some students enrolled	
Kind	External	
Effect	 enrolledStudents--	
Project Management	Name	Value
	Last Modified	9.11.2013 10:57:42

Unnamed Transition		
From	 Some students enrolled	
Kind	External	
Guard	enrolledStudents==capacity-1	
Effect	 enrolledStudents++	
Project Management	Name	Value
	Last Modified	9.11.2013 10:57:42

Course closed

Name	Value	
Project Management	Name	Value
	Last Modified	9.11.2013 10:55:41

Relationships

Unnamed Transition		
To	<input type="checkbox"/> Course terminated	
Kind	External	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Transition		
From	<input type="checkbox"/> No student enrolled	
Kind	External	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Transition		
From	<input type="checkbox"/> Some students enrolled	
Kind	External	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Transition		
From	<input type="checkbox"/> No capacity left	
Kind	External	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Course terminated

Name	Value	
Project Management	Name	Value
	Last Modified	9.11.2013 10:55:41

Relationships

remove() : Transition		
To	<input checked="" type="radio"/> FinalState	
Kind	External	
Project Management	Name	Value
	Last Modified	9.11.2013 10:57:42

Unnamed Transition		
To	<input type="checkbox"/> No student enrolled	
Kind	External	

Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Transition		
From	<input type="checkbox"/> Course closed	
Kind	External	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

FinalState

Name	Value	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Relationships

remove() : Transition		
From	<input type="checkbox"/> No student enrolled	
Kind	External	
Project Management	Name	Value
	Last Modified	9.11.2013 10:57:42

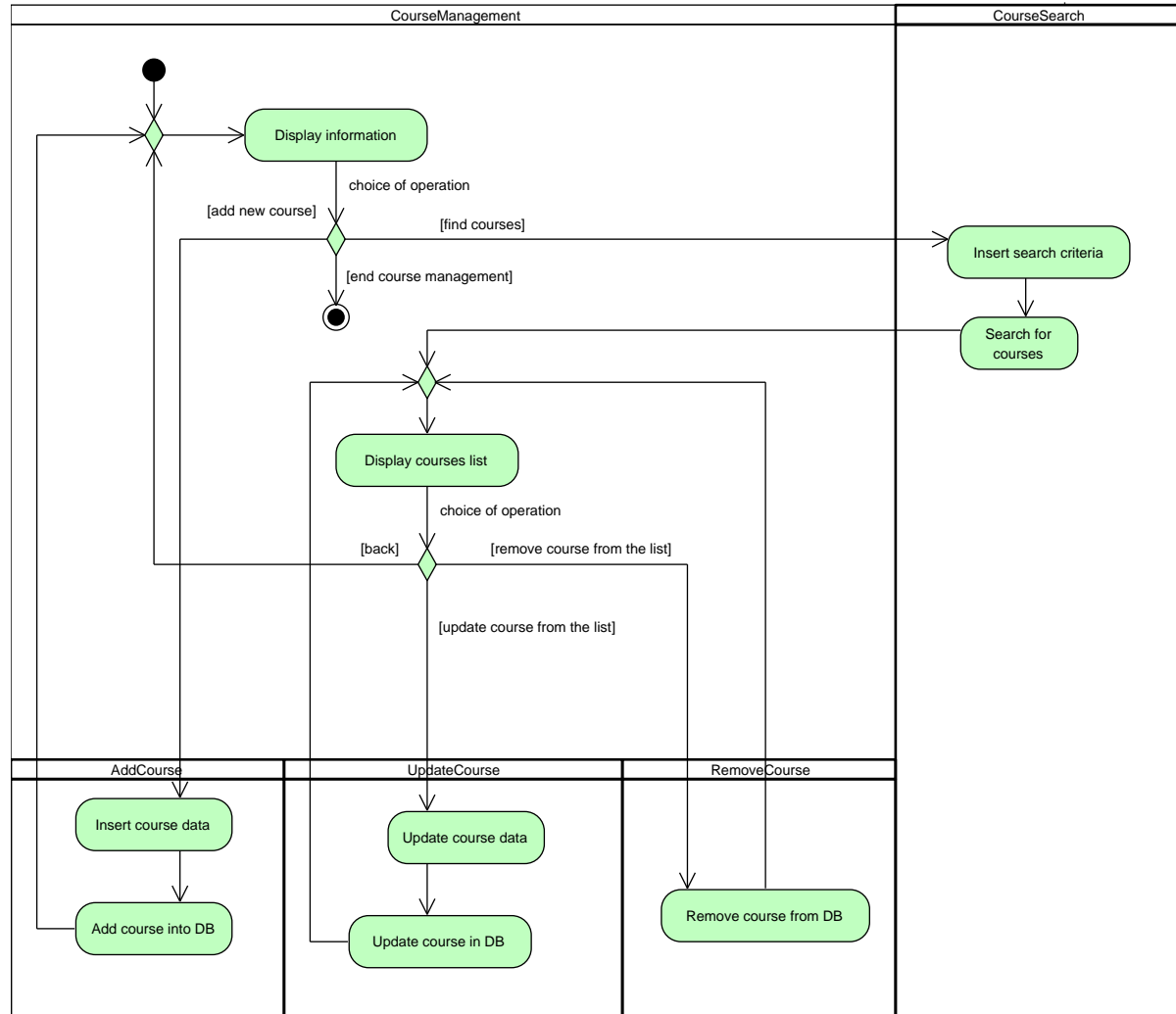
remove() : Transition		
From	<input type="checkbox"/> Course terminated	
Kind	External	
Project Management	Name	Value
	Last Modified	9.11.2013 10:57:42

Activity Diagram

Course management

Visual Paradigm Standard Edition(Masaryk University)

Use case CourseSearch: INCLUDE (CourseSearch)



Name	Value
Name	Course management
Last Modified	11.11.2014 23:36:16
Shape Presentation Option	0

Summary

Name	Documentation
Swimlane	
CourseManagement	
Swimlane2	
AddCourse	

 Swimlane3	
 CourseSearch	
 UpdateCourse	
 RemoveCourse	
 InitialNode	
 DecisionNode	
 Display information	
 DecisionNode2	
 Insert course data	
 Add course into DB	
 ActivityFinalNode	
 Insert search criteria	
 Search for courses	
 DecisionNode3	
 Display courses list	
 DecisionNode4	
 Update course data	
 Update course in DB	
 Remove course from DB	
 N/A	Use case CourseSearch: INCLUDE(CourseSearch)

Details

Swimlane

Name	Value	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Activity Partitions

CourseManagement

Contained Elements	Name	Documentation
	InitialNode	
	Display information	
	Display courses list	
	DecisionNode	
	DecisionNode2	
	DecisionNode3	
	DecisionNode4	
	ActivityFinalNode	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Swimlane2

Name	Value	
Project Management	Name	Value
	Author	veronika.lovrantova
	Create Date Time	21.11.2013 11:04:02
	Last Modified	21.11.2013 11:18:04

Activity Partitions

AddCourse		
Contained Elements	Name	Documentation
	Add course into DB	
	Insert course data	
Project Management	Name	Value
	Author	veronika.lovrantova
	Create Date Time	21.11.2013 11:04:02
	Last Modified	21.11.2013 11:18:04

UpdateCourse		
Contained Elements	Name	Documentation
	Update course in DB	
	Update course data	
Project Management	Name	Value
	Author	veronika.lovrantova
	Create Date Time	21.11.2013 11:04:02
	Last Modified	21.11.2013 11:18:04



RemoveCourse		
Contained Elements	Name	Documentation
	Remove course from DB	

Project Management	Name	Value
	Author	veronika.lovrantova
	Create Date Time	21.11.2013 11:04:26
	Last Modified	21.11.2013 11:18:04

Swimlane3

Name	Value	
Project Management	Name	Value
	Author	veronika.lovrantova
	Create Date Time	21.11.2013 11:10:33
	Last Modified	21.11.2013 11:18:04

Activity Partitions


CourseSearch		
Contained Elements	Name	Documentation
	 Insert search criteria	
	 Search for courses	
Project Management	Name	Value
	Author	veronika.lovrantova
	Create Date Time	21.11.2013 11:10:33
	Last Modified	21.11.2013 11:18:04

Project Management	Name	Value
	Author	veronika.lovrantova
	Create Date Time	21.11.2013 11:10:33
	Last Modified	21.11.2013 11:18:04

● InitialNode

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Relationships


Unnamed Control Flow	
To	 DecisionNode
Leaf	false
Visibility	Unspecified


Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57


DecisionNode


Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Relationships

Unnamed Control Flow		
To	 Display information	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Control Flow		
From	 InitialNode	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57



Unnamed Control Flow		
From	 DecisionNode4	
Guard	back	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	8.11.2013 19:45:10

Unnamed Control Flow		
From	 Add course into DB	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Display information

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	8.11.2013 19:45:10



Relationships

choice of operation : Control Flow		
To	 DecisionNode2	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	8.11.2013 19:45:10
Unnamed Control Flow		
From	 DecisionNode	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57


DecisionNode2


Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Relationships

Unnamed Control Flow		
To	 Insert course data	
Guard	add new course	
Leaf	false	
Visibility	Unspecified	
Duration Constraint	N/A	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04
Unnamed Control Flow		
To	 ActivityFinalNode	
Guard	end course management	

Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	8.11.2013 19:45:10


Unnamed Control Flow		
To	 Insert search criteria	
Guard	find courses	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04


choice of operation : Control Flow		
From	 Display information	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	8.11.2013 19:45:10

Insert course data

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Relationships

Unnamed Control Flow		
To	 Add course into DB	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Unnamed Control Flow	
From	 DecisionNode2
Guard	add new course
Leaf	false
Visibility	Unspecified
Duration Constraint	N/A

Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Sub Diagrams

Name	Documentation
Insert course data	

Add course into DB

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Relationships

Unnamed Control Flow		
To	DecisionNode	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04
Unnamed Control Flow		
From	Insert course data	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

ActivityFinalNode

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Relationships



Unnamed Control Flow	
From	DecisionNode2
Guard	end course management

Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	8.11.2013 19:45:10

Insert search criteria

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04


Relationships


Unnamed Control Flow		
To	 Search for courses	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04
Unnamed Control Flow		
From	 DecisionNode2	
Guard	find courses	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Search for courses

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Relationships


Unnamed Control Flow		
To	 DecisionNode3	
Leaf	false	
Visibility	Unspecified	


Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04
Unnamed Control Flow		
From	 Insert search criteria	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04


DecisionNode3


Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Relationships

Unnamed Control Flow		
To	 Display courses list	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Control Flow		
From	 Update course in DB	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Unnamed Control Flow		
From	 Remove course from DB	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04



Unnamed Control Flow		
From	 Search for courses	
Leaf	false	
Visibility	Unspecified	

Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Display courses list

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	8.11.2013 19:45:10


Relationships


choice of operation : Control Flow		
To	 DecisionNode4	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	8.11.2013 19:45:10
Unnamed Control Flow		
From	 DecisionNode3	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57


DecisionNode4


Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Relationships

Unnamed Control Flow		
To	 Update course data	
Guard	update course from the list	
Leaf	false	
Visibility	Unspecified	

Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04
Unnamed Control Flow		
To	 Remove course from DB	
Guard	remove course from the list	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04



Unnamed Control Flow		
To	 DecisionNode	
Guard	back	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	8.11.2013 19:45:10

choice of operation : Control Flow		
From	 Display courses list	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	8.11.2013 19:45:10

Update course data

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Relationships


Unnamed Control Flow		
To	 Update course in DB	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04
Unnamed Control Flow		
From	 DecisionNode4	


Guard	update course from the list	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Update course in DB

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Relationships


Unnamed Control Flow		
To	 DecisionNode3	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04


Unnamed Control Flow		
From	 Update course data	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Remove course from DB

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Relationships


Unnamed Control Flow		
To	 DecisionNode3	
Leaf	false	
Visibility	Unspecified	

Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04
Unnamed Control Flow		
From	 DecisionNode4	
Guard	remove course from the list	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

 **N/A**

Name	Value	
Documentation	Use case CourseSearch: INCLUDE(CourseSearch)	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

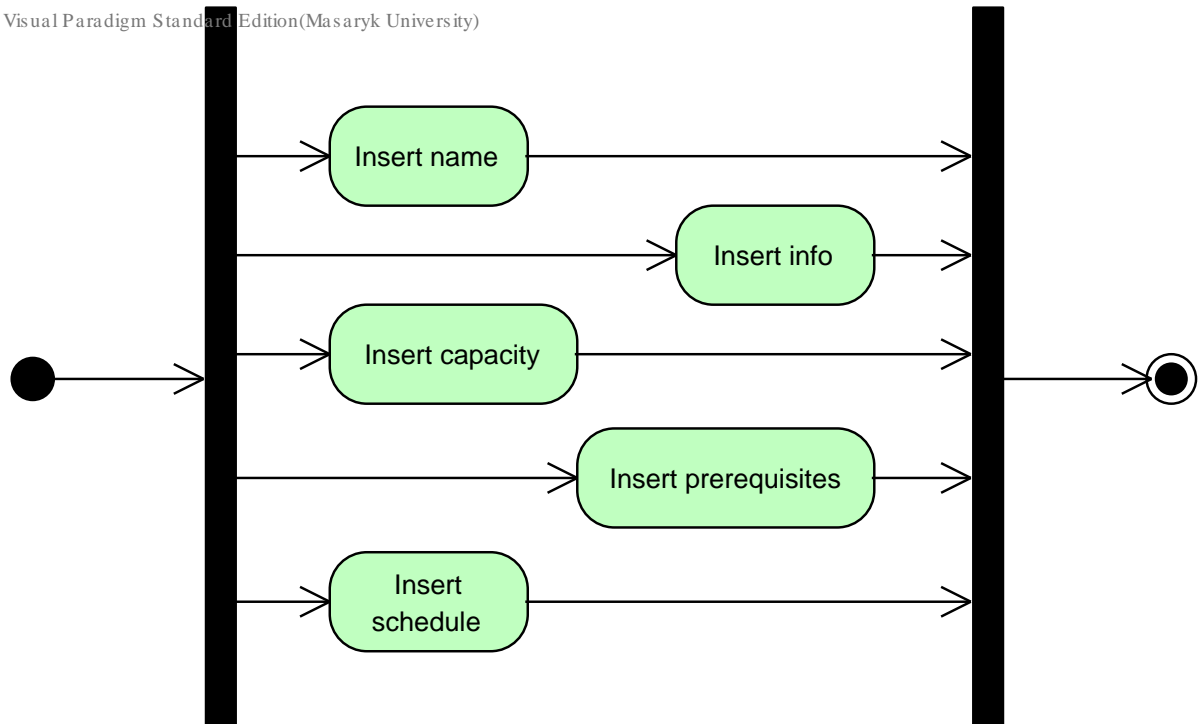
Relationships

Unnamed Anchor		
To	 CourseSearch	
Project Management	Name	Value
	Author	veronika.lovantova
	Create Date Time	21.11.2013 11:11:25
	Last Modified	21.11.2013 11:18:04

Activity Diagram

Insert course data

Visual Paradigm Standard Edition(Masaryk University)



Name	Value
Name	Insert course data
Last Modified	11.11.2014 23:36:16
Shape Presentation Option	0

Summary

Name	Documentation
● InitialNode2	
⚡ ForkNode	
▢ Insert name	
▢ Insert capacity	
▢ Insert info	
▢ Insert prerequisites	
▢ Insert schedule	
⚡ JoinNode	
⦿ ActivityFinalNode2	


Details

● InitialNode2

Name	Value
------	-------

Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04


Relationships


Unnamed Control Flow		
To	 ForkNode	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57


ForkNode


Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04


Relationships


Unnamed Control Flow		
To	 Insert name	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Control Flow		
To	 Insert capacity	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Control Flow		
To	 Insert info	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Control Flow		
To	 Insert prerequisites	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57


Unnamed Control Flow		
To	 Insert schedule	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57


Unnamed Control Flow		
From	 InitialNode2	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Insert name

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Relationships



Unnamed Control Flow		
To	 JoinNode	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Control Flow		
From	 ForkNode	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Insert capacity

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04



Relationships

Unnamed Control Flow		
To	 JoinNode	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57
Unnamed Control Flow		
From	 ForkNode	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Insert info

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Relationships



Unnamed Control Flow		
To	 JoinNode	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57
Unnamed Control Flow		
From	 ForkNode	
Leaf	false	
Visibility	Unspecified	

Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Insert prerequisites

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04


Relationships


Unnamed Control Flow		
To	 JoinNode	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57
Unnamed Control Flow		
From	 ForkNode	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Insert schedule

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Relationships

Unnamed Control Flow		
To	 JoinNode	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57
Unnamed Control Flow		


From	 ForkNode	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57


JoinNode


Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Combine Duplicate	true	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04


Relationships


Unnamed Control Flow		
To	<input checked="" type="radio"/> ActivityFinalNode2	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Control Flow		
From	 Insert name	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Control Flow		
From	 Insert capacity	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Control Flow		
From	 Insert info	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57


Unnamed Control Flow		
From	 Insert prerequisites	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Control Flow		
From	 Insert schedule	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

ActivityFinalNode2

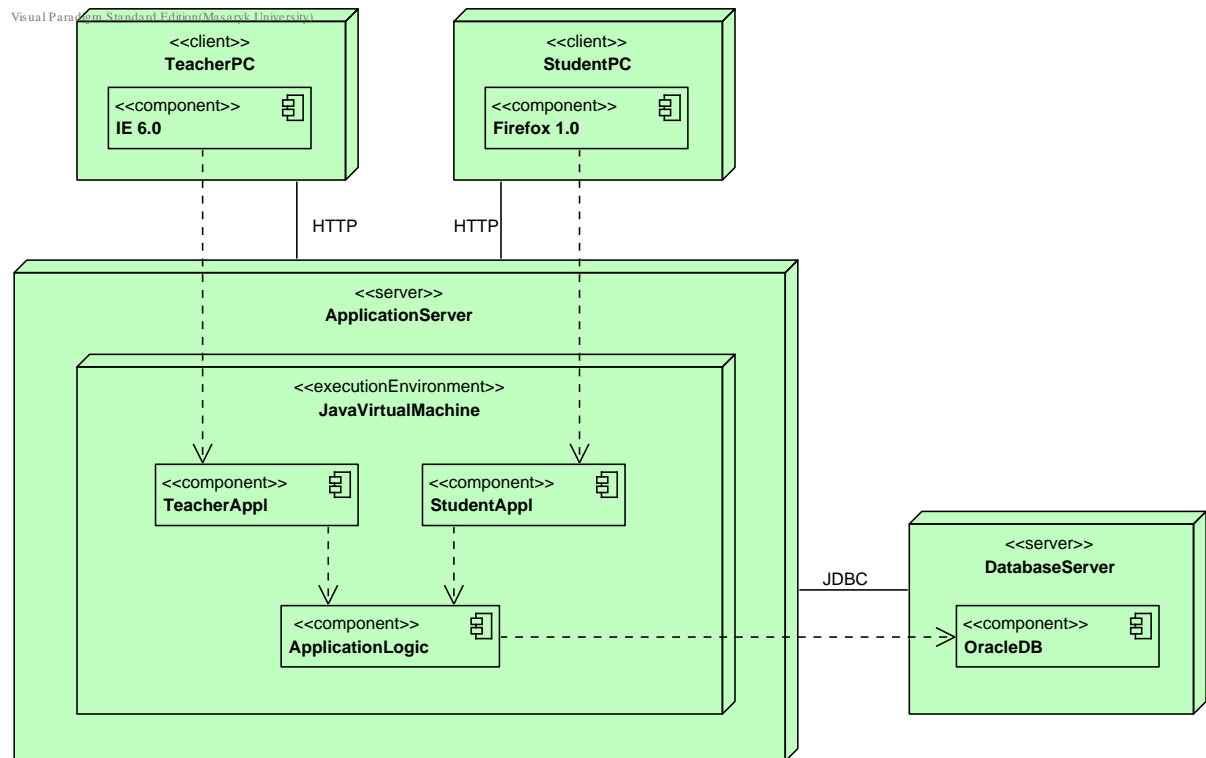
Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	21.11.2013 11:18:04

Relationships

Unnamed Control Flow		
From	 JoinNode	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Deployment Diagram

Deployment Diagram1



Name	Value
Name	Deployment Diagram1
Last Modified	11.11.2014 23:36:16
Shape Presentation Option	0

Summary

Name	Documentation
TeacherPC	
StudentPC	
IE 6.0	
Firefox 1.0	
ApplicationServer	
JavaVirtualMachine	
TeacherAppl	
StudentAppl	
DatabaseServer	
ApplicationLogic	
OracleDB	

Details


TeacherPC

Name	Value	
Active	false	
Business Key Mutable	true	
Business Model	false	
Visibility	public	
Abstract	false	
Leaf	false	
Root	false	
Stereotypes	client	
Project Management	Name	Value
	Last Modified	29.11.2013 11:42:07

Resident Components

Name	Documentation
 IE 6.0	

Relationships

HTTP : Association			
To	Name	Value	
	End Model Element	 ApplicationServer	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	Navigable	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Project Management	Name	Value
		Last Modified	27.2.2011 23:19:57
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		

Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57


StudentPC

Name	Value	
Active	false	
Business Key Mutable	true	
Business Model	false	
Visibility	public	
Abstract	false	
Leaf	false	
Root	false	
Stereotypes	client	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Resident Components

Name	Documentation
 Firefox 1.0	

Relationships


HTTP : Association			
To	Name	Value	
	End Model Element	 ApplicationServer	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	Navigable	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Project Management	Name	Value
		Last Modified	27.2.2011 23:19:57
Abstract	false		
Leaf	false		
Visibility	Unspecified		

Derived	false	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

IE 6.0

Name	Value	
Active	false	
Business Key Mutable	true	
Business Model	false	
Visibility	public	
Abstract	false	
Leaf	false	
Root	false	
Indirectly Instantiated	true	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57


Relationships

Unnamed Dependency		
To	 TeacherAppl	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Firefox 1.0

Name	Value	
Active	false	
Business Key Mutable	true	
Business Model	false	
Visibility	public	
Abstract	false	
Leaf	false	
Root	false	
Indirectly Instantiated	true	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Relationships

Unnamed Dependency		
To	 StudentAppl	
Visibility	Unspecified	

Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57


ApplicationServer


Name	Value	
Active	false	
Business Key Mutable	true	
Business Model	false	
Visibility	public	
Abstract	false	
Leaf	false	
Root	false	
Stereotypes	server	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57


Nested Nodes

Name	Documentation
 JavaVirtualMachine	

Relationships

JDBC : Association			
To	Name	Value	
	End Model Element	 DatabaseServer	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	Navigable	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Project Management	Name	Value
		Last Modified	27.2.2011 23:19:57
Abstract	false		
Leaf	false		
Visibility	Unspecified		




Derived	false		
Project Management	Name	Value	
	Last Modified	27.2.2011 23:19:57	
HTTP : Association			
From	Name	Value	
	End Model Element	 TeacherPC	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	Navigable	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Project Management	Name	Value
		Last Modified	27.2.2011 23:19:57
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		
Project Management	Name	Value	
	Last Modified	27.2.2011 23:19:57	
HTTP : Association			

From	Name	Value	
	End Model Element	 StudentPC	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	Navigable	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57	
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		
Project Management	Name	Value	
	Last Modified	27.2.2011 23:19:57	

JavaVirtualMachine

Name	Value	
Active	false	
Business Key Mutable	true	
Business Model	false	
Visibility	public	
Abstract	false	
Leaf	false	
Root	false	
Stereotypes	executionEnvironment	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57



Resident Components

Name	Documentation
 TeacherAppl	
 StudentAppl	
 ApplicationLogic	

TeacherAppl

Name	Value	
Active	false	
Business Key Mutable	true	
Business Model	false	
Visibility	public	
Abstract	false	
Leaf	false	
Root	false	
Indirectly Instantiated	true	
Project Management	Name	Value
	Last Modified	29.11.2013 11:42:07

Relationships



Unnamed Dependency		
To	 ApplicationLogic	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57
Unnamed Dependency		
From	 IE 6.0	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

StudentAppl

Name	Value
Active	false
Business Key Mutable	true
Business Model	false
Visibility	public
Abstract	false
Leaf	false
Root	false
Indirectly Instantiated	true

Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Relationships

Unnamed Dependency		
To	 ApplicationLogic	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57
Unnamed Dependency		
From	 Firefox 1.0	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

DatabaseServer


Name	Value	
Active	false	
Business Key Mutable	true	
Business Model	false	
Visibility	public	
Abstract	false	
Leaf	false	
Root	false	
Stereotypes	server	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Resident Components

Name	Documentation
 OracleDB	

Relationships

JDBC : Association



From	Name	Value	
	End Model Element	 ApplicationServer	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	private	
	Aggregation Kind	None	
	Navigable	Navigable	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Project Management	Name	Value
Last Modified		27.2.2011 23:19:57	
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		
Project Management	Name	Value	
	Last Modified	27.2.2011 23:19:57	

ApplicationLogic

Name	Value		
Active	false		
Business Key Mutable	true		
Business Model	false		
Visibility	public		
Abstract	false		
Leaf	false		
Root	false		
Indirectly Instantiated	true		
Project Management	Name	Value	
	Last Modified	27.2.2011 23:19:57	

Relationships


Unnamed Dependency		
To	 OracleDB	
Visibility	Unspecified	

Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57
Unnamed Dependency		
From	 TeacherAppl	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57
Unnamed Dependency		
From	 StudentAppl	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

OracleDB

Name	Value
Active	false
Business Key Mutable	true
Business Model	false
Visibility	public
Abstract	false
Leaf	false
Root	false
Indirectly Instantiated	true
Project Management	Name
	Last Modified
	Value
	27.2.2011 23:19:57

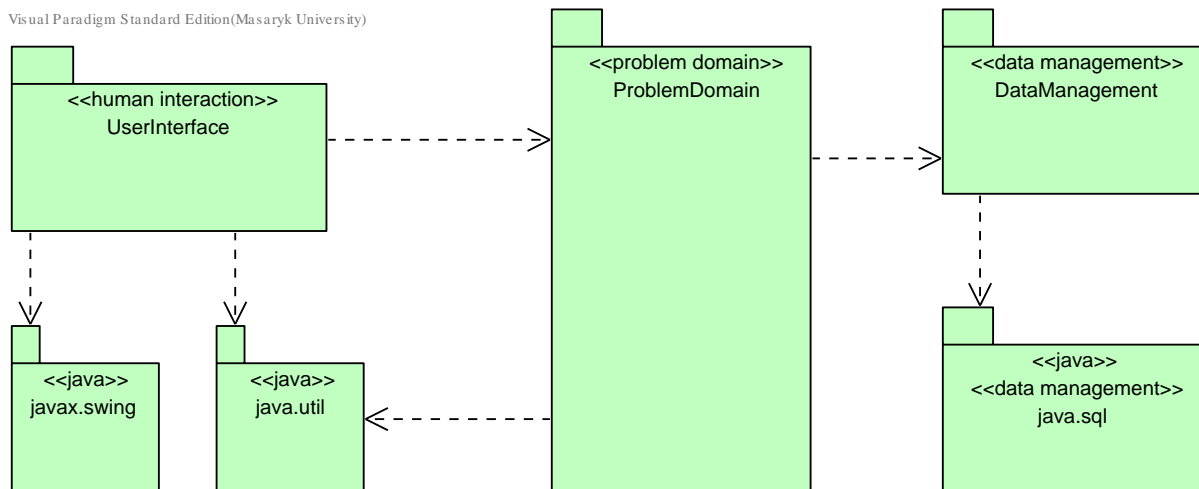
Relationships

Unnamed Dependency		
From	 ApplicationLogic	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Package Diagram

Package Diagram

Visual Paradigm Standard Edition(Masaryk University)



Name	Value
Name	Package Diagram
Last Modified	11.11.2014 23:36:16
Shape Presentation Option	0

Summary













Name	Documentation
ProblemDomain	
DataManagement	
UserInterface	
java.sql	
javax.swing	
java.util	

Details


ProblemDomain


Name	Value	
Abstract	false	
Leaf	false	
Root	false	
Stereotypes	problem domain	
Visibility	public	
Project Management	Name	Value
	Last Modified	8.11.2013 18:04:47


Children

Name	Documentation
 InternalTeacher	
 ExternalTeacher	
 Teacher	
 WorkReport	
 Course	
 Student	
 DistanceStudyCourse	
 FullTimeCourse	
 UsersManager	
 CourseCatalogue	
 Studies	
 Lectures	

Relationships

Unnamed Dependency		
To	 java.util	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Dependency		
To	 DataManagement	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Dependency		
From	 UserInterface	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Sub Diagrams


Name	Documentation
 Class Diagram	


DataManagement

Name	Value
Abstract	false
Leaf	false
Root	false

Stereotypes	data management	
Visibility	public	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Relationships


Unnamed Dependency		
To	 java.sql	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57


Unnamed Dependency		
From	 ProblemDomain	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

UserInterface

Name	Value	
Abstract	false	
Leaf	false	
Root	false	
Stereotypes	human interaction	
Visibility	public	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Relationships

Unnamed Dependency		
To	 ProblemDomain	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Unnamed Dependency		
To	 javax.swing	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57


Unnamed Dependency		
To	 java.util	
Visibility	Unspecified	

Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

java.sql

Name	Value	
Abstract	false	
Leaf	false	
Root	false	
Stereotypes	java, data management	
Visibility	public	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57


Relationships

Unnamed Dependency		
From	 DataManagement	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

javax.swing

Name	Value	
Abstract	false	
Leaf	false	
Root	false	
Stereotypes	java	
Visibility	public	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Relationships



Unnamed Dependency		
From	 UserInterface	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

java.util

Name	Value
Abstract	false

Leaf	false	
Root	false	
Stereotypes	java	
Visibility	public	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Relationships

Unnamed Dependency		
From	 UserInterface	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57
Unnamed Dependency		
From	 ProblemDomain	
Visibility	Unspecified	
Project Management	Name	Value
	Last Modified	27.2.2011 23:19:57

Grid

Glossary Grid