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Use Case Textual Specification

PB007 Software Engineering I
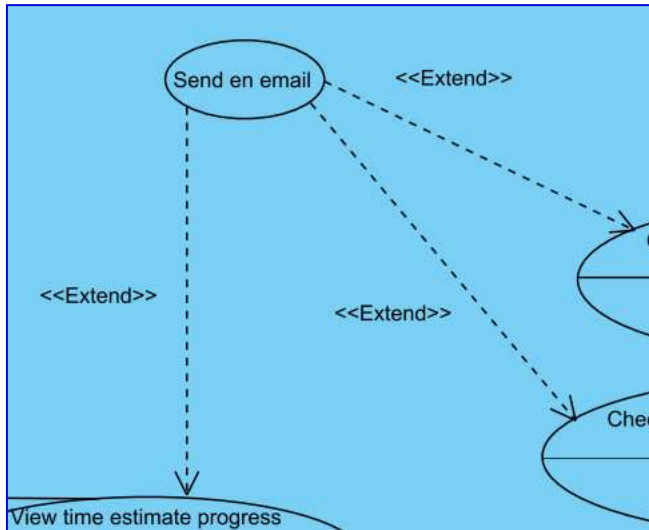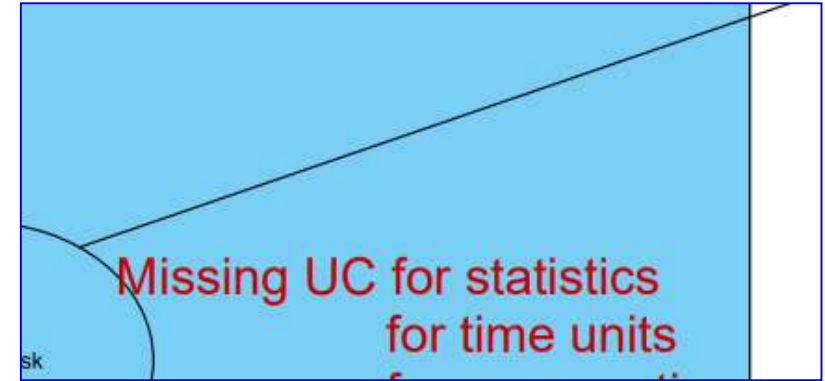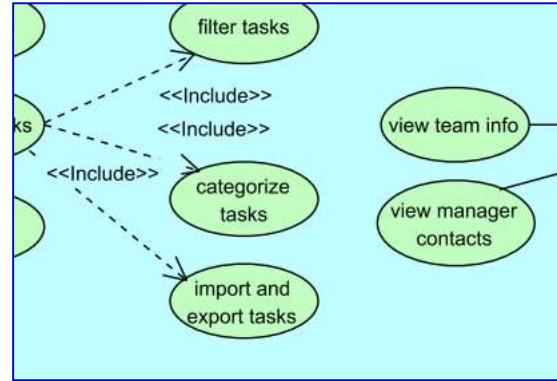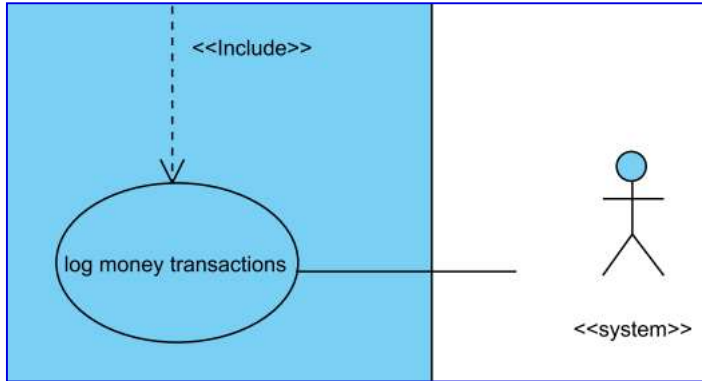
Jakub Levčík
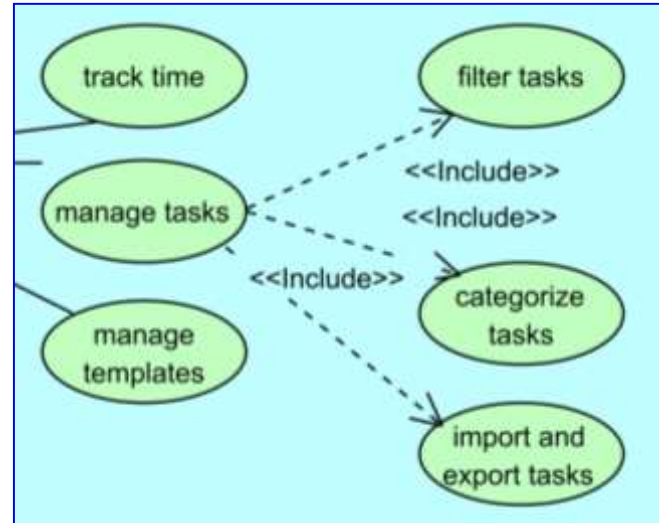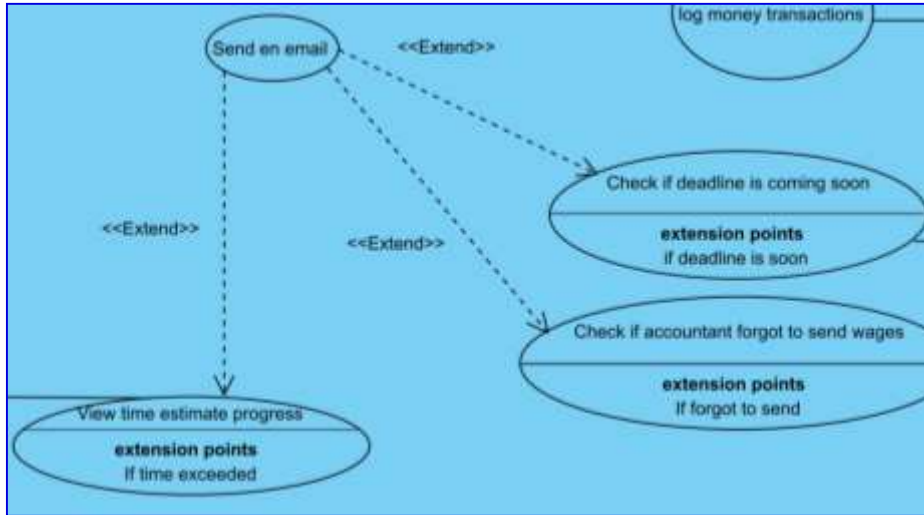**536336@mail.muni.cz**

Additional Organization

- Put type of the diagram along with its name
- Set your real names on discord server (at least first name + first letter of surname)

Common mistakes/imperfections

Good job!

PB007 Software Engineering I – Use Case Textual Specification

Textual specification

More examples in Interactive Syllabus

CourseEnrollment

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	1. UC is evoked, once Student selects "Course Enrollment" in the menu. 2. INCLUDE(CourseSearch) 3. IF at least one course was found 3.1. FOR EACH (course found, which has not reached full capacity yet) 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" 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.

Textual specification

Overview

- Detailed and structured description of a use case

- Includes
  - Name and ID
  - Brief description
  - Primary and secondary actors
  - Pre and postconditions
  - Main flow of events (without errors)
  - Alternative flow of events (error handling)

- You can use statements like if/while/for

- You can use Include/Extend

- Written as: **\<step id\>** **\<actor/system\>** **\<action\>**

Textual specification

Tips

- Be specific

- Don't use logical operators like AND or OR -> split the statement into separate steps

- Don't leave out any useful information

Activity: ZOO

- We'll try to create a text specification together!
    - each person can add or edit one existing line
    - discussion and helping each other supported, not prohibited

- Use case: **AddNewAnimalToDb**
    - animal is born or sent to a ZOO
    - for **newly born** animals
        - birth weight must be filled in
        - information who is the animal's parent should be stored
    - for **animals sent** from another ZOO
        - animals can come together with their children (our ZOO is popular)
        - if the animal has children, they must be inserted into the database too (with a link to their parents)

Commercial break

We are hiring!

- https://jobs.sap.com/job/Brno-%28Junior%29-Backend-Developer-with-SOAP-Business-Technology-Platform-63900/1109030201/

- https://jobs.sap.com/job/Brno-%28Junior%29-Backend-Developer-Business-Technology-Platform-63900/1109134101/

Tips for VP

Youtube tutorial

- ## Creating textual specification

  - Righ click use case -> *Open Specification*
  - For full textual specification copy template from IS into *description*

- ## Coloring use cases

  - Right click use case -> *Styles And Formating* -> *Formats* -> *Background*
  - ALTERNATIVE – select use case -> Diagram upper bar -> *Format* -> *Background*

Task for this week

You gotta do what you gotta do

- Create a short description for every Use Case in your diagram
- Create a full text specification for 3 Use Cases of your choice – choosing at least one more complex
- **Submit reports until Wednesday (16th Oct) 8:00 am into Week 03**

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