

Seminar Groups Introduction

PB007 Software Engineering I

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18. 9. 2018



Schedule of Seminar Sessions

1. Visual Paradigm introduction, project assignment.
2. Project start, initial **Use Case diagram**.
3. Detailed **Use Case diagram**, textual specification of UC
4. Specification of use cases (textual if not finished, **Activity diagram**).
5. **Analysis Class diagram, Object diagram**.
6. Finalization of analysis **Class diagram**, Use Case diagram update.
7. Data modelling, **Entity Relationship diagram**.
8. **Design-level Class diagram**, interfaces, implementation details.
9. **State diagram**.
10. Refinement of use cases with **Interaction diagrams**.
11. Finalization of **Interaction diagrams**, Class diagram update.
12. **Packages, Component diagram, Deployment diagram**.
13. Project evaluation.



Requirements for the Exercise Groups

- Attendance
 - Mandatory participation;
 - max *one unjustified* absence (1. exercise is not counted);
in case of *two or more* absences:
 - **-5points** in the evaluation exam;
- Project
 - each week upload the project increment in the IS;
 - deadline 48h before the next session;
 - **-5points** for late submission;
 - completing the project is a necessary condition to go to the final exam;
- Various
 - each week there will be a test on the lecture's material:
each student can get **0-2points**;
obligatory to do it as the lab session starts;
 - There will be bonus points (**0-3points**) for students that perform ***exceptionally*** during the semester;



- File download for Visual Paradigm 15.1 Standard Edition
(**IMPORTANT**: the license key will only work with this version)
<https://www.visual-paradigm.com/download/>
- In case of need, you can find old versions at
<https://www.visual-paradigm.com/download/archive/>
- **License Key**
Serial number: <look in the Interactive Syllabus> - **intended only for educational purposes!**
- generally you need to be connected to download the license key



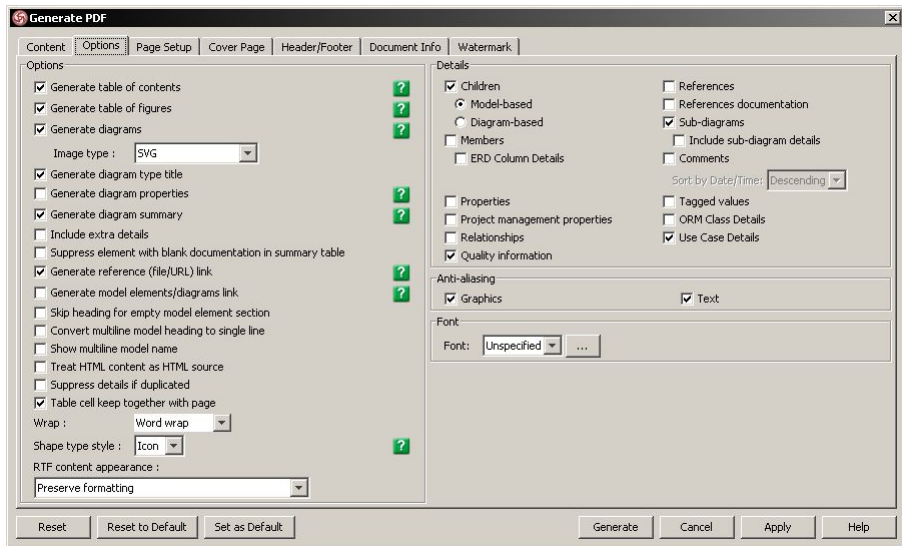
Visual Paradigm - installation

- When starting VP for the first time choose *academic license* either from the main screen or from *Windows->License Manager...*;
- Insert the given license key and your email address and choose *Activate* - check your email client to receive a verification code - it might require some time (5-10 min. - check the SPAM folder as well!);
- insert the verification code;

The image displays four screenshots from the Visual Paradigm installation process:

- Top Left:** A window titled "Thank you for installing Visual Paradigm" with the instruction "Please select license type". It offers three options: "30 Days FREE Evaluation" (with a smiley face icon), "Perpetual License" (with a red icon), and "Subscription / Academic License" (with a calendar icon). The "Subscription / Academic License" option is highlighted with a red box.
- Top Right:** A window titled "Thank you for installing Visual Paradigm" with the instruction "Please enter subscription account information". It includes a "Subscription Sign in" section and an "Academic Partner Program License" section. The "Academic Partner Program License" section contains a text box for an activation code, a "Name:" field, and an "Email:" field. The "Email:" field contains "f.tran" and is highlighted with a red box. An "Activate" button is visible below the fields.
- Bottom Left:** A "Verification" dialog box with the message "A verification code has been sent to your email address. Please copy and paste the code here." and an empty text input field. Below it is a "Close" button.
- Bottom Right:** A "Congratulations!" window with the text "You just completed the installation of Visual Paradigm Standard Edition." and a large "V" logo in the background.

Visual Paradigm - configuration of reporting

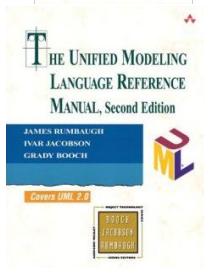
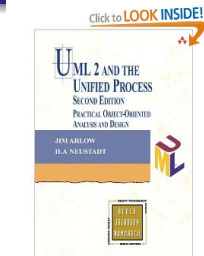


- <http://www.visual-paradigm.com/product/vpuml/tutorials/>
 - tutorials to work with Visual Paradigm
- <http://www.agilemodeling.com/style/>
 - tips to improve the style of your UML modelling



Useful Resources II

- **UML 2 and the Unified Process**
- *UML 2 and the unified application development process*
 - Jim Arlow, Ila Neustadt
 - clearly explains in detail the various diagrams
 - examples, useful suggestions
 - ...
- *The Unified Modeling Language Reference Manual (2nd Edition)*
 - James Rumbaugh, Ivar Jacobson, Grady Booch
 - the semantics of each UML element



Beginning with the Project

- This year, the project is about supporting a pastry shop with an online Information System;
- We will create groups of two or three students;
- Next time we will start with the creation of the Use Case diagram of your project;



- Analyze the description of the project to understand the problem domain - prepare questions for parts that are unclear;
- Think about functional and non-functional requirements (in terms of the different user roles);
- Experiment a bit with VP by using some simple tutorials (e.g. how to create a project, a use case);

