

Seminar Groups Introduction

PB007 Software Engineering I

Bruno Rossi

20. 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. Analytical **Class diagram**, Object diagram.
6. Finalization of analytical **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:
 - **-5 points** 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 **0-2 points**;
obligatory to do it as the lab session starts;
 - There will be bonus points 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/>
- **License Key**
Serial number: 4Y5ZX-554Y8-2AN88-MUTBW-RR27P - intended only for educational purposes!
- generally you need to be connected to download the license key



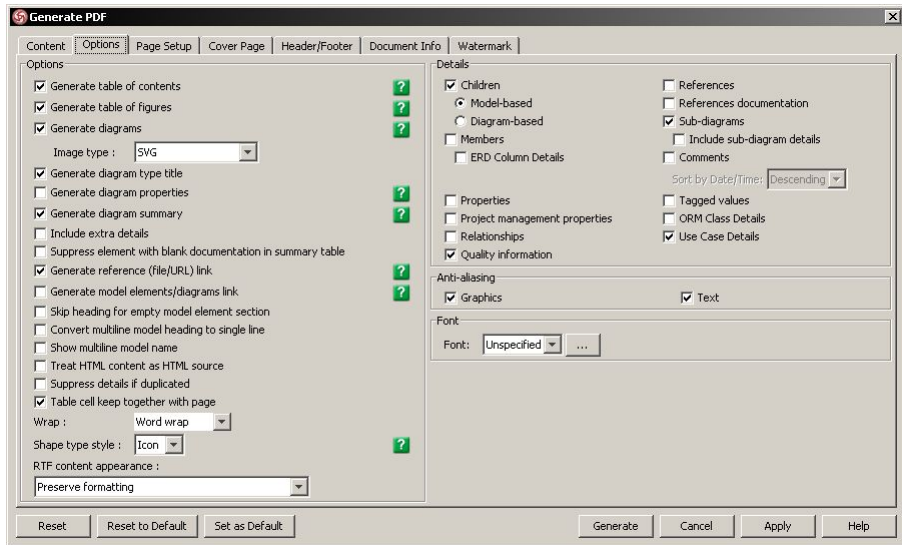
Visual Paradigm - installation

- 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 screen titled "Thank you for installing Visual Paradigm" with the instruction "Please select license type". It features three options: "30 Days FREE Evaluation" (with a smiley face icon), "Perpetual License" (with a red circle icon), and "Subscription / Academic License" (with a calendar icon). The "Subscription / Academic License" option is highlighted with a red box.
- Top Right:** A screen 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 the text "Email". A red box highlights the activation code field and the email field. Below these fields is an "Activate" button and a "Configure Prop..." button.
- 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 input field. Below it is a "Close" button.
- Bottom Right:** A screen titled "Congratulations!" with the message "You just completed the installation of Visual Paradigm Standard Edition."

Visual Paradigm - configuration of reporting

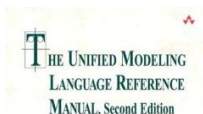
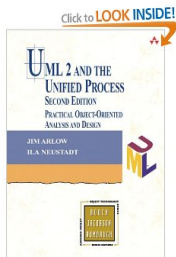


- <http://www.visual-paradigm.com/product/vpuml/tutorials/>
 - tutorials to work with Visual Paradigm
- <http://www.agilemodeling.com/style/>
 - tips to improve the style of your UML modelling



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 three students;



- 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);

