

R&D Project Report

In the Project Report you should describe the system that you develop in your R&D project. You describe the final product, but also the process that results in that product. For example, for the various design decisions that you make, you should describe how these decisions were made: which alternatives were considered and how did you choose between these alternatives.

The title of your Project Report should be **Project Report PT01** in which of course you use your own PT number. The front page must also mention the authors of the report: the names of the students in your PT. For the construction of your report you should use the chapters given below.

1. Introduction

Give a general description of your system. For example, what are the goals of the system? Who are the users of the system? Why are they interested in using this system?

2. Description

2.1 Focus on properties

Global description of the product and its properties. Although this is a global description, it is important that you try to describe the properties explicitly. So do not accept any implicit assumptions. The description can be illustrated with information about the user interface, for example screenshots or other illustrative information.

2.2 Product justification

Here you explain why it is worthwhile to build your system. What other (similar) products are available? What are the typical (new and innovative) contributions of your system?

2.3 Specifications

A more detailed description of the properties mentioned in section 2.1. It would be good to give some underlying models, for example Use Case Diagrams with an explanatory description.

3. Design

3.1 Global design

Describe the components (modules) of your system and the interconnections between those components. You should explicitly describe the role of each component. Explain why the components together actually do what they are supposed to do. Make sure that this distinction between the components is in line with the way in which you implemented the system.

3.2 Detailed design

Give a detailed design in terms of classes, methods and attributes. Explain the idea behind the most important methods and attributes. Make sure that your descriptions are clear and consistent, such that a future programmer would be able to further improve or extend the system.

3.3 Design justification

Explain why your design is a good design. Here you should focus on your design decisions including technical details. Give possible design alternatives and describe how you chose between these alternatives, based on a small research or experiment or other criteria.

4. Project management

Here you should describe details of the process in which your team has worked. How did you divide the overall project into specific tasks? For each task, describe which persons were assigned to that task. Was it possible to split tasks into smaller tasks?

For each week of your project, specify which tasks were active in that week. Some other topics you can address here: organization of project meetings, detailed aspects of planning (including problems), relationships between tasks, differences between planned tasks and executed tasks, and detailed aspects of cooperation between members of the project team (including problems).

5. Evaluation

Here you should evaluate your project, for example: are you satisfied with your product? What are the unsolved issues? Are you satisfied with your development process (that is the process which resulted in your product)?

What did you learn? Describe and analyse the factors which determined your process and product. What are the consequences for future work? How would you operate in a future project?

Some final remarks:

- Everything should be explained, such that the reader can actually understand the process and product of your project.
- Help the reader while he is going through the document. In each part of your text, tell the reader what he can expect in that part.
- Upload your Project Report in PDF via the assignment in Brightspace.