

Project Structure Plan

AAS Digital Nameplate Generator

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Version Control

Version	Date	Author	Comment
1.0	06.11.2023	Florian Dörr	Initialize PSP
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1. Introduction

This document illustrates further details about the team structure and time management.

2. Team structure

The team consists of five members. Each member has their own role. The team leader is Florian Dörr. He is responsible for the organization and time management of the team. The test manager is Thomas Ekhardt. He is responsible for the test plan (STP), tests and test report (STR). Also, each member works on their own document. It is not efficient if multiple members work on the same documents. Simon Luz is responsible for the system architecture. He is only available in the 3. Semester. This means, the team is reduced by one member during the 4. Semester. The software developer is Robin Ernst. Tristan Kopp is responsible for the technical documentation.

Some roles are more important later in the project, e.g. test manager. To be more efficient and finish the task in time, each member gets extra tasks outside of their role. More detailed information about the assignment of the different tasks can be found in the Gantt-diagrams.

3. Costs and Risks

There are different risks for this project. The risks can be found in the following table. Except the financial risk, all risks are focused on our current studies. Each score is rated in probability and impact. Both range from 1 to 5. 1 means unlikely or less impact and 5 means very likely and huge impact. To calculate the importance of the different risks, the probability is multiplied with the impact. The result is a score with a maximum of 25.

Risks	Probability	Impact	Score
Illness	3	3	9
Other Projects	4	3	12
Financial	2	5	10
Exmatriculation	1	4	4
Customer Misalignment	2	2	4

The highest score is the risk of other projects. This risk has a high probability and an impact of 3 to delay the project. To reduce this risk good planning is needed. The probability stays the same but the impact decreases to 2.

The costs can be found in the BC.

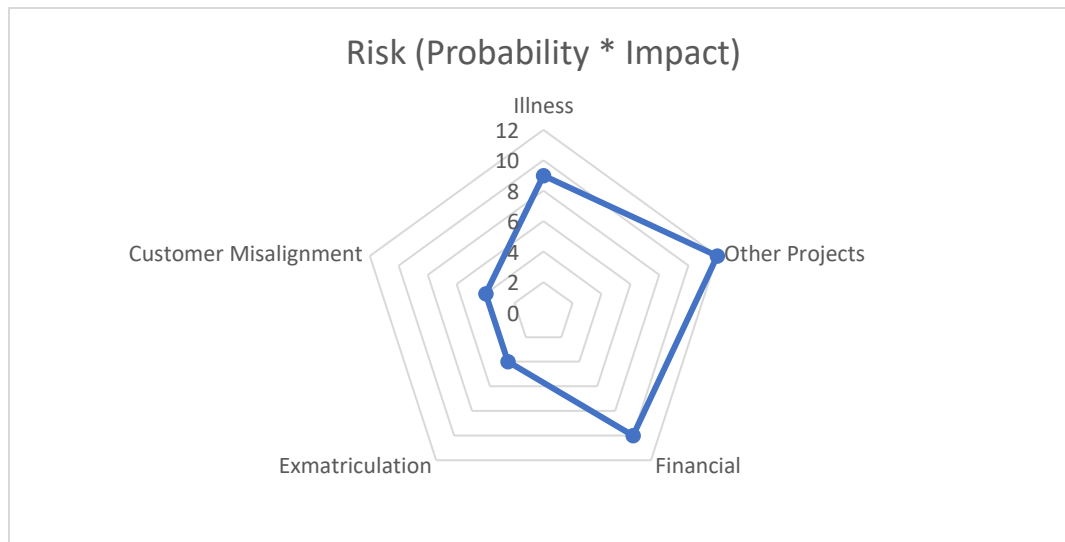


Figure 1: Risks

4. Planing

The time management is done with the help of a Gantt-diagram. The time is divided into 2 Semesters. The break block symbolizes the break between those two semesters.

Following Gantt-diagram presents an overview of the different tasks:

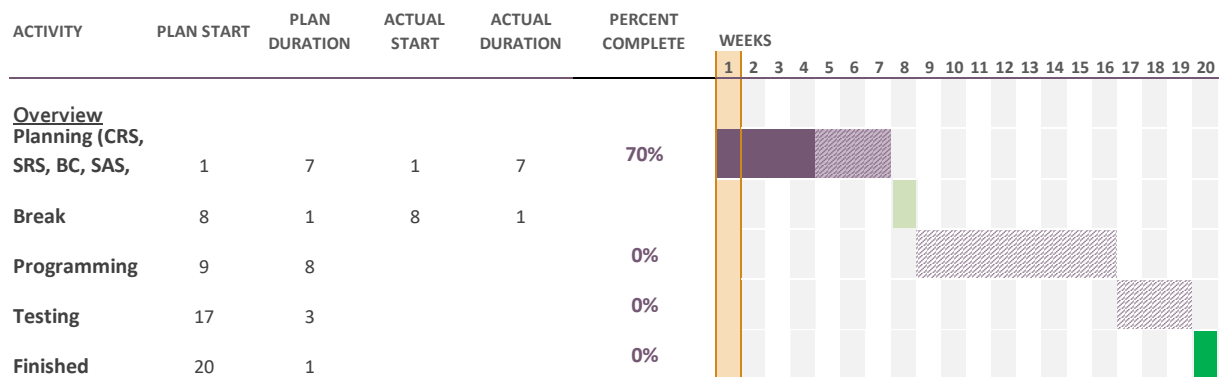


Figure 2: Gantt-diagram Overview

The planning tasks need to be done in the 3. Semester. Programming and testing is done in the 4. Semester. The Project is finished after 19 weeks. More detailed Gantt-diagrams can be created with the help of a project structure plan (PSP).

Following diagram is the PSP:

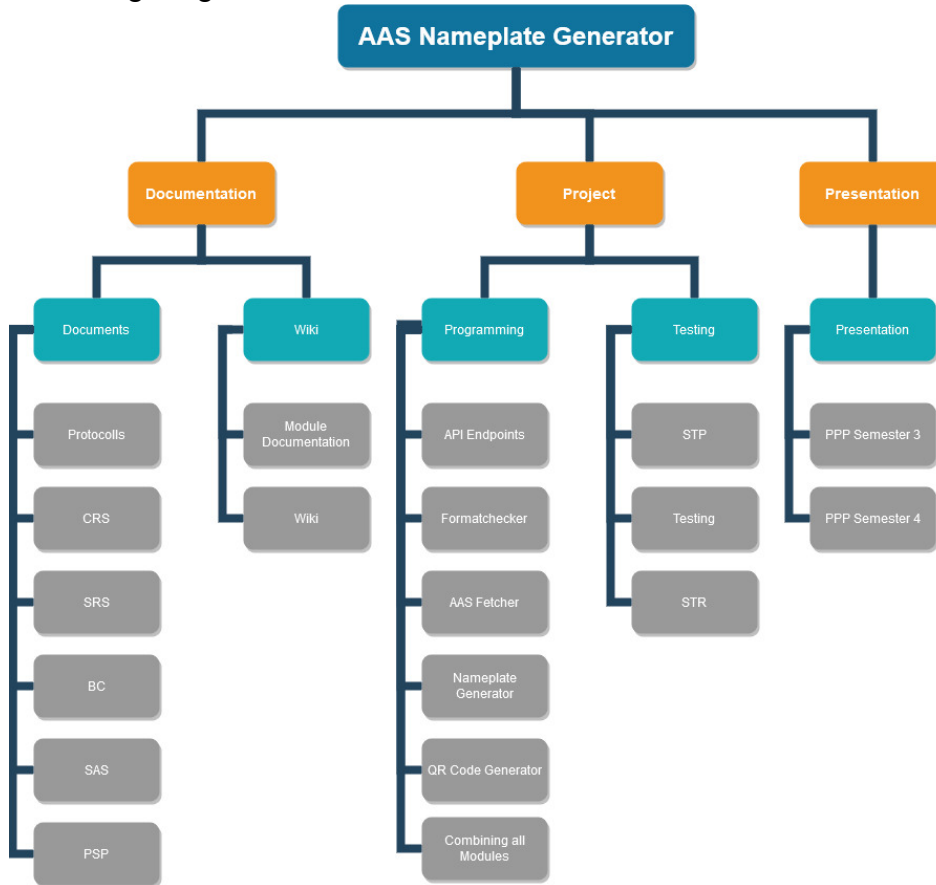


Figure 3: Project structure plan

More detailed information about the 3. Semester can be found in the following Gantt-diagram:

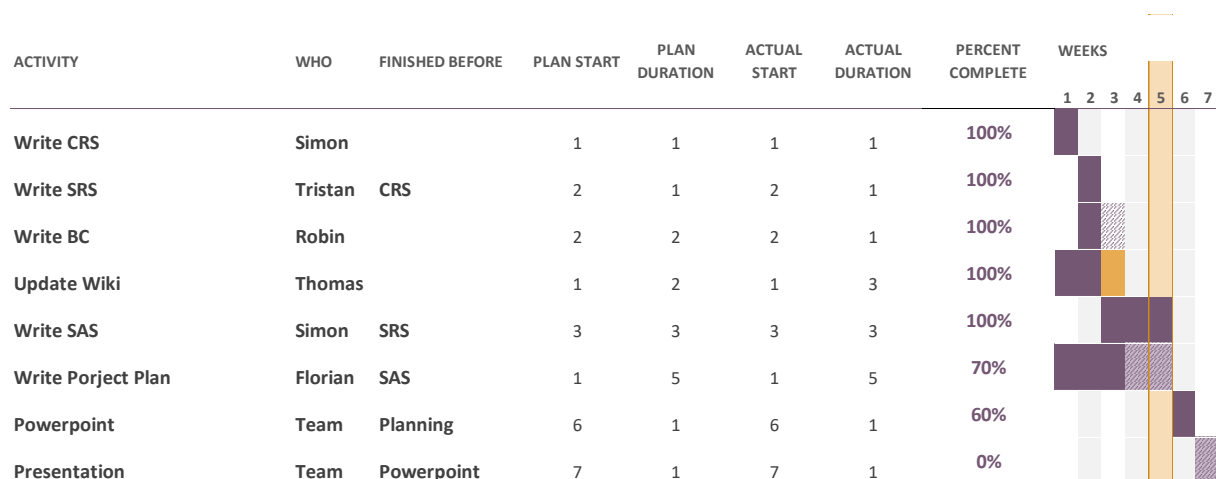


Figure 4: Gantt-diagram Semester 3

Many tasks can be done parallel. For example the business case, project plan (PSP) and customer relation specification (CRS). When the CRS is finished a software relation specification (SRS) can be created. The system architecture specification (SAS) needs the information from the SRS.

When the SAS is finished a more detailed Gantt-diagram for programming and testing in the 4. Semester can be designed.
Following Gantt-diagram shows the plan for the 4. Semester:

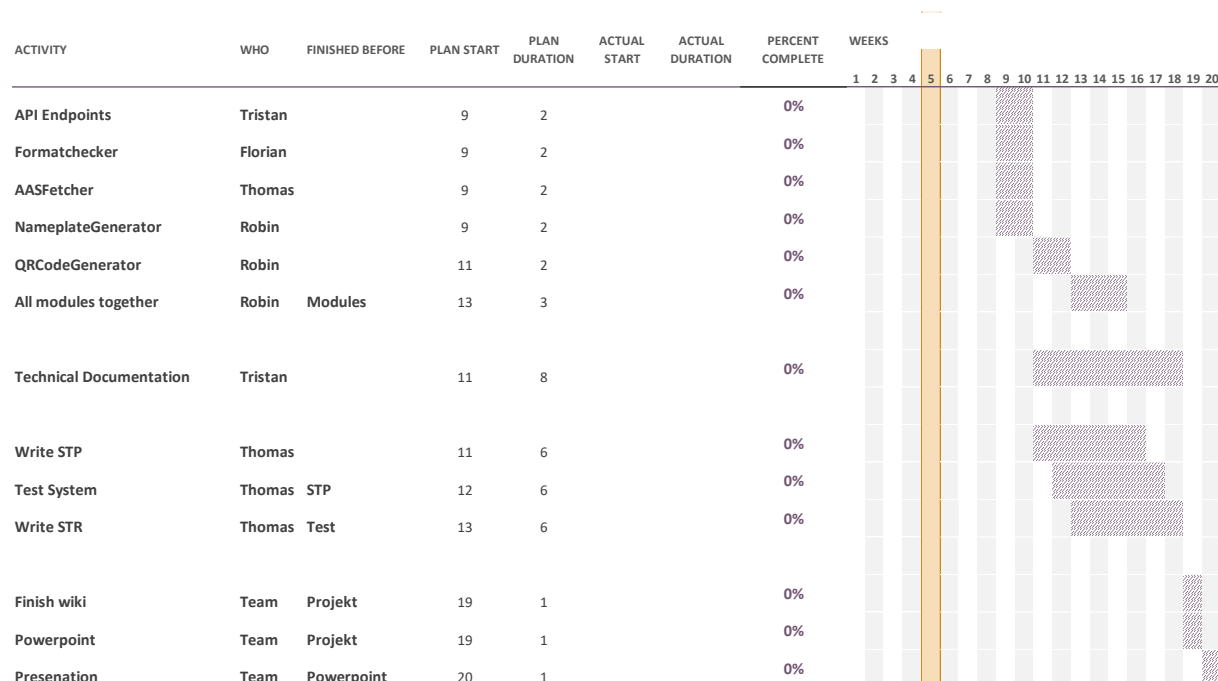


Figure 5: Gantt-diagram Semester 4

The 4. Semester starts with programming the tools. At this point the team has only four members. Each member programs one module. The software developer programs a second module. His job is also to connect, check the modules and fix small errors.

After Tristan wrote his module, he starts with the technical documentation.

The test manager, Thomas, starts to write the system test plan (STP) at week 11.

The project is finished at week 19. Only the presentation needs to be prepared and the wiki updated.

5. Platforms and Meetings

All documents are visible in a GitHub repository. The official documents: CRS, SRS, SAS can be found in the GitHub wiki. The secret documents: BC, PSP can be found in the PROJECT folder.

GitHub is also used for the code. It is structured in different folders.

Meetings are every week. The weekly meetings need to be protocolled. Tristan Kopp writes the protocols. In the weekly meetings additional tasks can be given to team members. Each team member presents their progress. Additionally, there are multiple small meetings between a small subgroup of the team members to exchange information.

The protocols are in the PROJECT folder.