

Fontys Hogescholen ICT

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**S-DB-IPS3-S3-DB01U**

*Semester Plan*

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# 1 Semester Plan

Table 1: Learning Objectives

#	What?	How?
LO1	Professional	I will ask for feedback from the teacher for the things that I have written, and I will apply their feedback in my code. I am quite bad at this, so this is a good improvement point for me. That is also why I included it in all the sprints of my planning.
LO2	Web application	The Web Application will be writing using JavaScript front-end, using the React Framework. I have never worked with this, and as I will have to work with this in the group project as well, I think this will be a good opportunity to use it in different ways and improve my use using feedback on different projects. As for the back-end, I will use Python for the Machine learning, as it is well implemented and commonly used for machine learning and data analysis projects. Besides that I want to use Java for most programs. This will improve my java capabilities so far. I also want to experiment with C++ for certain micro-services. I will try to learn about good back-end techniques and how to implement these in the given languages, especially Java, as I will be using it the most.
LO3	Software Quality	I will use GitHub as a repository, using Kan-ban and Agile as a method for keeping everything organised. I will also use the built-in code checker of GitHub, using it to make sure I find errors in my code. Besides this, I will try to keep things organised, so everything is easy to check at a later point. I will also make sure to test everything using test cases. I will make test plans and test reports, to make sure my code actually works the way it should, and is also decently efficient, using efficiency analysis to make sure there are the least amount of big run times as possible.
LO4	CI/CD	As I will be hosting the repository on my GitHub, I will use the built-in CI Pipeline to implement continuous integration and continuous deployment. As I have never used these before, I will do research on how this works and how to implement this correctly.

Table 2: Sprint planning

Sprint #	Terms
Sprint 0	Professional, CI/CD
Sprint 1	Professional, CI/CD, Web Application
Sprint 2	Professional, Web Application, Software Quality
Sprint 3	Professional, Web application, Software Quality
Sprint 4	Professional, Web application, Software Quality
Sprint 5	Professional, Web application, Software Quality