Reading Guide

By Svetoslav Hristov

Software Engineering Advanced

Table of contents

Introduction

To begin with, I am Svetoslav, 22, from Bulgaria. I began my journey with software development in 8th grade, when I started attending C++ development courses outside of school. During that period I was mainly learning various algorithms, techniques, principles of object-oriented programming, database management, etc. Following that, I joined Fontys' ICT & Software Engineering program, where I extended my knowledge on object-oriented programming and worked on several projects. Currently, I have experience in development of back-end systems using a couple frameworks and development of front-end components using React.js. As for this semester, I am aiming to learn how to apply the microservice architecture in an enterprise software environment efficiently while also gaining further knowledge on cloud services. Ideally, my goal is to launch my individual project as a real application in the near future.

Projects overview

TooGoodToGo Alternative

This application would be my individual project for this semester. This project is meant to replicate and extend the already existing "TooGoodToGo" application with some additions in terms of functionality. The application would provide businesses in the F&B sector with the possibility to sell their expiring goods at a discounted price. Customers will be able to purchase the offered goods and collect them from the designated location. The main goal of the application is to minimize the food wasted by restaurants, supermarkets and similar businesses. Further technical information regarding the project can be found in the Project Plan.

WPVH Data Framework

This project is assigned to me and 5 other students as our group project. WPVH stands for "Workplace Vitality Hub", which is a "smart" office in the High Tech Campus in Eindhoven. The office has numerous sensors which measure temperature, humidity, air quality and other living conditions constantly. However, most of the data is not saved to a database, which means it is as good as lost. The goal of the project is to develop a method of extracting the data from the sensors and save it in a designated data warehouse. What is more, there should be a mechanism which allows other people to access the collected data, only if they have been given permissions.

Services Repositories

- User authentication service;
- User Account service;
- Product service;
- Payment service;
- Order service;
- User API gateway;
- Discovery server.

Self-assessment

Self-assessments per sprint can be found in the **Self-Assessment and Reflection** document.