Project Proposal Template
CS-C2130 Project Proposal – “IMS Pocket”

1. Introduction

We provide services and software to help our customers meet different quality standard requirements such as ISO 9001. Our oldest product, IMS Software, is massive in features and created with ancient technology that is not very compatible with mobile devices. This brings out the need for a mobile service that would allow a more lightweight method to viewing the content written, drawn and described in the software.

2. Project goals

We need a mobile application that can be used to view the contents of IMS Software. The result needs to be optimised for mobile in UI, usability and efficient data handling.

Main goals for the project:

Creating a mobile application that
- Securely connects to IMS Software through its REST API.
- Fetches data from IMS Software’s REST API (processes, manuals, documents).
- Renders a mobile-optimised view with the fetched data.
- Allows users to save specific data with the software for offline use.

3. Technologies

We assume that this should be implemented as a native application using a technology that allows it to be used on iOS and Android devices. We have some experience in doing this using React Native, but you are free to choose any technology you want. Communication between IMS and the mobile application must be done through REST API by using JSON. The REST API offered by IMS Software will be implemented by our own team, so you can concentrate on the mobile application.

4. Requirements for the students

Usability is a primary focus in this project, so we would like your team to have at least some knowledge and a lot of passion in creating a good user experience. The other focus is making the application work fast and handle data efficiently, so we appreciate having the will to optimise software.

The difficulty of the topic is moderate.
5. Legal Issues

The results are published under open source license MIT (https://tldrlegal.com/license/mit-license). No NDA is required.

6. Client

Arter Oy is located in Helsinki and offers software and services for quality management, software architecture and process management. It was founded in 1998 and has currently about 60 employees.

The company has two separate software products: IMS and ARC. IMS Software is a platform for companies to create their quality management systems. ARC Software is a platform for companies to describe their enterprise architecture or other complex data systems. Both products have their own development teams. In addition to these teams the company also has a third development team for developing an editor ‘Blueprint’ which is used for drawing process images and architectural structures. Though not being an individual product itself, it is included in both products. IMS and ARC can be integrated together but apart from these described connections, the products and their development are separate.

Client representatives

Customer main representative: Ossi Hirvikoski (email: ossi.hirvikoski@arter.fi, phone: +358 50 502 2102, located in Valimotie 21, Helsinki). Ossi is a product owner and formerly a full-stack software developer with several years of experience.

Secondary representative: Niila Gauriloff (email: niila.gauriloff@arter.fi, phone: +358 50 324 0718, located in Valimotie 21, Helsinki). Niila is the head of the software development department and an experienced software developer.

This project is important to us, so we are willing to spend a good amount of effort in supporting the team throughout the project. Our product owner will attempt to be available at all times. We are also happy to offer working space for the team at our office in Valimo, Helsinki. If the project requires some specific software, servers or devices we will do our best to arrange them for the use of the team.

7. Other

The documentation for the project can be done in Finnish or English.

We are always looking for talented developers to join us. A good skillset, personality and enthusiasm are what we appreciate the most. Hence, this is a great opportunity for us to get to know each other!