Project Proposal – Cross-platform mobile application

1. Introduction

Mafynetti is an application, currently available for Windows, macOS and Android, that allows students to study digital learning material effectively. The aim of this project is to provide Mafynetti to iOS users as well by developing a cross-platform mobile application that supports both Android and iOS. The end-users of Mafynetti are mainly high school students preparing themselves for university entrance examinations or high school matriculation examinations.

2. Goals

The goal is to use React Native to develop a version of Mafynetti that is similar to the native Android version, but supports iOS as well as Android. By developing a cross-platform application, Mafynetti becomes available to a wider audience without any increased costs in terms of maintainability. Since Mafynetti is currently operational and therefore already has its business logic written, the team will mainly be working on the User Interface aspect of the application.

The scope of the project is flexible. We strive to ensure that the application can be developed further by ourselves, and therefore it isn’t crucial that the team manages to finish porting all of Mafynetti’s features. We intend to accomplish this by actively supporting the team and providing guidance. Moreover, if the students finish the project early other technologies can be explored in addition to React Native or additional features and improvements can be made to the UI.

3. Technologies

We suggest the use of React Native for the mobile application. The team may also suggest another approach if they believe it is more suitable. The team members can freely choose their own development environments.

4. Requirements for the students

The team will use and learn the following skills and technologies:

- Web development and mobile applications.
- React Native, ES6, Git, continuous integration and test-driven development.

We only require the interest and willingness to learn. Previous knowledge is helpful but not mandatory.
5. Legal issues

Signing an NDA is not required. The client retains all the IPRs to the results. However, this is negotiable in the sense that we are willing to provide the team some access to the results in case they want to e.g. use the results as a part of future job applications.

6. Client

MAFY-Valmennus is a company founded by Antti Suominen and Teemu Kekkonen in 2008, with headquarters in Ruoholahti, Helsinki. We offer courses that prepare students for various entrance examinations. Most of our students aspire to study medicine, mainly at the Helsinki University Faculty of Medicine, but we also offer courses for the DIA-examination and high school matriculation examination. In 2018, 51% of the students admitted to the Helsinki University Faculty of Medicine, as well as 31% of the students admitted to the Aalto University Department of Industrial Engineering and Management, attended our courses.

The digital learning material and application used by our students is developed by ourselves. You can find out more about us by visiting our website.

Client representatives:

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Zacharias is attending the course as a student at Aalto University and has been preselected as the Scrum Master for this project.