Project Proposal – Multiplatform video viewer

1 Introduction

In order to make mobile application development faster, Elisa Viihde is looking for ways to build mobile application for both Android and iOS platform from one codebase. This project is proof of concept that such application that provides good user experience can be implemented.

2 Project goals

The goal is to implement application that can be build both for Android phone/tablet and iPhone/iPad and provides possibility to play Elisa Viihde content, functionality containing:
- login to Elisa Viihde
- provide simple view with some of the videos available
- do at least the first one of these, more if time and interest allow:
  - app should be able to play non-protected content (recordings)
  - app should support protected content (rentals)
  - app should support downloading content and playing it offline
  - run the app also on Android TV

3 Technologies

The team is free to choose the used technology based on their current competence and interest from one of the following (in preference order):
1. Flutter/Dart
2. Kotlin multiplatform mobile (+ Kotlin & Swift where needed)
3. some other multiplatform tool such as ReactNative

The API's provided by Elisa are RESTful API's and example code (if needed) is in Java (Android) and Objective C and Swift (iOS). Elisa Internal GitHub will be used for version control and CI. Microsoft App Center is used to deliver the app to internal users.

4 Requirements for the students

Some mobile application development skills are preferred and useful, knowing multiplatform technologies is even better. Basic knowledge on Github and Trello is useful.

Difficulty of the topic depends on the selected project scope, playing non-protected content is rather straight forward for someone with some knowledge on mobile development, protected content and download adds to the complexity. Naturally implementing the software for two platforms brings up some additional challenges.

5 Legal Issues

Intellectual Property Rights (IPR): The client gets all IPRs to the results

Confidentiality: The client will share some confidential information with the students.

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6 Client

- Elisa is a telecommunications, ICT and digital service company and a market leader in Finland. Our business is continuously changing. Digitalization is influencing the work that people do, ways of working, management, tools and the working environment
- The student who will be working as the scrum master in the project has been working with Elisa Viihde for couple of years and is able to provide support on the API's and Elisa related things as well as the product owner will be available.
- We offer working space (if needed, remote work is also fine), required API's, some test devices and make sure there are otherwise sufficient tools to complete the project.

Client representative

Product Owner: Tero Soukko, tero.soukko@elisa.fi, +358 50 487 6632

Preselected Student Team Members

Scrum Master: Wilhelm von Bergmann, wilhelm.vonbergmann@elisa.fi

7 Additional information

We expect the project results to be utilized in further study and development after the project period. This might open opportunity for the students to continue working for Elisa as a summer trainee after the project.