Movie Match for Android

A Penny for Your Thoughts Ltd.

Matthew Penny matt.penny82@gmail.com

**Project Planning**

1. *Assess the size, scope, and complexity of the project, and establishes procedures to support subsequent activities*

The size, scope and complexity of the Movie Match Application was difficult to decipher at first. When starting out, the API call was originally a source of worry until initial research showed that Netflix had deprecated their API and Disney and Prime Video had never made one. As such, we were able to find several different APIs that would be more than enough to satisfy the needs of our application. Once this had been determined, we started to look for the different system requirements that would be required for us to implement the swiping style of cards that different dating applications have made so popular over the last 10 or so years. After this portion of the research was completed, we started to look into creating a wireframe to assess the number of activities, helper classes and fragments that would be needed to successfully complete the capstone requirements.

Now that the size and scope had been tentatively outlined, we started to wonder about the complexity of the project. There will be a minimum of eight activities and fragments as well as multiple API calls and three tables in the database that will be created using Firebase. We will also be using an OTP and hyperlink in an SMS message to allow users to link up when not in the same viewing area. With these different technologies(?), we were able to ascertain that the project will be quite complex and will take at least the 300 hours that were outlined in the requirements. We will be using GitHub as our VCS to stay in contact with the college and all administrators involved.

All the above indicates to us that we will have to adhere closely to the schedule that was outlined in our documentation. Allowing for breaks, time off, illnesses and any other issues that may arise, we will be planning weekdays to start from 8:30am until 6pm and will follow the Pomodoro focus method of working with 45-minute work periods, 15-minute break periods and 1 hour long breaks every 4 complete periods. Weekends will be used to reflect on the coming week and to clean up any possible deliverables, uploads to the VCS and creating test cases.

1. *Analysts identify detailed system requirements*

Having researched the different dating applications that use the swiping method to obtain matches as well the different streaming sites that we were looking to implement in this project, we determined that as far as minimum <look for wording on Android here> version will be as follows:

* To implement the application’s swiping method, the minimum requirements are **iOS 13.0 and up, Android 7.0 and up, as well as the latest versions of all major web browsers (Chrome, Firefox, Safari, Edge etc.).**

**For the different streaming services:**

* **Netflix** – available on Android phones and tablets running **Android 2.3 or later**. Current application version requires **Android 5.0 or later.** Older devices may not be able to download the application from the Google Play Store, although these devices may be able to get a version directly from Netflix. **Optional Picture in Picture is available to Android 8.0 and up only.**
* **Disney+** - Android phones and tables running **Android 5.0 or later are needed** to run the current application version. For those using Chromecast as a streaming device can cast from an Android device. Likewise, you can cast to devices such as Android TV.
* **Amazon Prime Video** –Android phones and tablets running **Android 5.0 and up are needed** to run the current application version.

<<<FIX THIS>>>

After viewing the above system requirements, I will be building this application for all Android devices that are running on 7.0 and above to ensure coverage for as many users to find the application accessible.

^^^THIS PART^^

1. *Requirements capture and modelling undertaken*

Non-Functional Requirements