First Weekly Report

Team05

11.4.2018

This week is week 7 for this semester (11.4.2018). For this week we focus on the interview with main stakeholder and do some research for the development of our short movie application.

1 What we have done in this week

(a) Research

    i Market Research
In this week, we do a questionnaire for the application's users to find their attitude for fee, movies etc. It will affect our UE design in the future

    ii Technical Research

        1 There are 3 kinds of application for IOS and Android software development: Web App, Hybrid App, and Native App.

Native App: The native app for Android is programmed using the Java programming language. Application developed in this way runs directly on the system. [3]

Web App: A web-app is a program which runs in a web browser. It is programmed using HTML, CSS, and JavaScript or other web-application frameworks. [2]

Hybrid App: A hybrid app combines the elements of both, native app and web app. It is coded using web languages (HTML, CSS, JavaScript), that can be ported to any platform inside a native container. [2]

	Web App	Hybrid App	Native App
Cost	Low	Medium	High
Maintenance	Simple	Simple	Hard
UE	Bad	Good	Good
Recognition for store	No	Yes	Yes
Install	No	Yes	Yes
Cross-platform	Good	Good	Bed
Cost	Low	Medium	High

        2 Tools and Language
Android: Android Studio/ Eclipse + ADT + Android SDK

Java, HTML, CSS, JavaScript

IOS: Xcode
Objective-C, C language, C++

Management: Git and GitHub

3 Possible algorithm
Deep Neural Network Algorithm
In this application, we want to do "Recommended", "Suggested", "Related", "Search", "MetaScore" options like YouTube. Therefore, there should be an AI algorithm to judge that which kind of movies should be recommended to audience. Deep Neural Network Algorithm is a good way to finish "YouTube" algorithm. [1]

(b) Interview
For this interview, we have 4 parts for the main stakeholder interview: Introduction, Understanding, Questions and Equipment. The aim of interview is getting more details about requirement. But the interview data is 5th Nov. So, the result of this interview will be show on next weekly report.

(c) Outline for interim report

* Introduction
* Background (Research)
* Requirements Specification
* Design and User Interface
* Project Management
* Future work

2 What we will do for next week.

(a) Minutes for formal meeting and stakeholder interview.

(b) Further improve the SRS document

(c) Do some UI design draft

(d) Using MindLine/Xmind draw Mind map

References

[1] P. Covington, J. Adams, and E. Sargin. Deep neural networks for youtube recommendations. In *Proceedings of the 10th ACM Conference on Recommender Systems*, pages 191–198. ACM, 2016.

[2] N. Serrano, J. Hernantes, and G. Gallardo. Mobile web apps. *IEEE software*, 30(5):22–27, 2013.

[3] P. Viswanathan. The pros and cons of native apps and mobile web apps, 2014.