

COMPS313F Mobile Application Programming

Project in Mobile Application Development

Due Date: Week 13, lab session

Aim

The aim of the project is to design, develop, and evaluate a mobile application. Each group of NO more than SIX (6) students will submit an application for a particular area. The groupmates are NOT limited to the same tutorial group.

Project Basics Requirements

- Design, develop and evaluate a mobile application that displays information of fitness walking tracks in Hong Kong.
- Requesting fitness walking tracks information, e.g.,
 - <https://data.gov.hk/en-data/dataset/hk-lcsd-facility-facility-fw>
 - https://www.lcsd.gov.hk/datagovhk/facility/facility-fw_data_dictionary.pdf
 - <https://www.lcsd.gov.hk/datagovhk/facility/facility-fw.json>
- You can find any other sources for requesting related information.
- The response (if in JSON format) can be studied with any JSON parser, e.g.,
 - <https://jsoneditoronline.org/>
- A complete version of your proposed application should be implemented.
- You are encouraged to implement any additional or useful feature.
- Components required to be submitted on or before the due date:
 - A runnable mobile application.
 - Project document.
- You may be asked to do an online demonstration by the course instructor.

Mobile Application Development

- You are allowed to employ ANY type of mobile app development platform:
 - Native Android app, native iOS app, hybrid app, Ionic app, Flutter, React Native, PWA running in Android or iPhone, ..., etc.

Project Document

- A word document of less than 1000 words addressing the feature(s) of the application.
- In the written document, you should include:
 - Application/group basic information:
 - Project title
 - Names and SID of students in the team
 - Description of major and significant features of your application.

Submission

- Submit your works to the OLE, which include:
 - A runnable mobile application project including all the necessary files, resources and folders.
 - A document file (.doc/.docx) specifying 1) Project title, 2) Student name and SID of all the team member(s) of your group and 3) Feature(s) completed in your mobile application.
- Use “s*****.zip” as the filename format of your submission, where s***** is your student ID.
 - Only one submission for each group is required.
- Non-submission of each submission element will be penalized at 50% (absolute marks).
- Late submission without a legitimate reason will be penalized at 20% (absolute marks) by 1 day, or get zero for your project.
- Submission of application from other courses will get zero mark of your project.
- Every group should submit all the required components on or before the specified due date.

Project demonstration

- Every group should demonstrate their mobile application project on the specified due date.

Grading Referenced Criteria

The grading is based on the functions and features of the developed mobile application.

Pass Grade (40%)

- Satisfying the basic requirements.

Higher Grades

- To obtain higher grades, groups may consider one or more of the following approaches:
 - Appropriate use of graphics and animations.
 - Appropriate use of multimedia.
 - Appropriate use of sophisticated techniques.
 - Innovative idea.
 - Significant features.
- Note:
 - 15 marks for each distinct feature implementation.
 - Up to four (4) distinct features implementation.