

MOBILE APPLICATIONS DEVELOPMENT (48889)

PROJECT 2020 DUE: 24/04/2020

The following document contains the instructions for Project 2020 for Mobile Applications Development. The project will be worth 70% of your mark for this module. You must use GitHub to manage the development of your project. **Your application must be developed using the Ionic cli version 5.0.2, projects not adhering to this criteria will not be graded.**

Minimum Requirements

You determine the form and function of your app. However, the app should meet the following minimum requirements:

- The App must run - When the ionic serve command is issued, after cloning and installing modules I expect the app to open in the browser.
- The App should use:
 1. The built-in Data Binding properties – e.g. interpolation, two-way data binding.
 2. navigation - At some point your app must navigate between at least 4 pages.
 3. Ionic Native/Cordova plugin.
 4. a http client to read JSON data from an external URL.
 5. Data Persistence.
 6. The App must be structured in standard, organised and consistent fashion.
 7. There must be a comment for each non-obvious line of code you add to the project.
 8. The submission process must be followed (see below).
 9. The project must be created using **ionic start G0000001 template**, where G0000001 is your Student ID.
 10. A User Guide should be added to the wiki section of your GitHub repository.

Requirements for high grade:

Your app must meet and surpass all minimum requirements stated above. Your app must be innovative. Your app must go further than what you learned in the labs. Your app must be fluid, intuitive and aesthetically appealing. Your app code and User Guide must be of a professional level i.e. detailed, consistent and well structured. If you incorporate something that you think merits attention, please clearly highlight this in your documentation and code comments.

GitHub

GitHub must be used to manage the development of the software. You might also try using GitHub Issues. GitHub issues allow collaborators to track project progress through bug reports, milestones and labels. You will have the opportunity during the weekly timetabled computer labs to work on the project, and to ask the lecturer for advice. The lecturer will add issues and comments to your repository to record these interactions. It is likely that these interactions will heavily affect the marking of the project.

Rules

- The code and documentation must be submitted, on Moodle, before the due date. I have provided an assignment submission link on Moodle. Follow the Submission process below.
- All code and documentation will be stored in your Project GitHub repository. Nothing outside this repository will be graded.
- The app must run. When I clone the app from your GitHub repository and issue the “ionic serve” command (Note: I understand some plugins may not work with ionic serve but the app should open and all other functionality should work). There will be a 25% penalty if the app does not run and the submission process is not followed. Make sure you check your app is running on another computer before submission.
- Do not attempt to alter the code or documentation in your GitHub repository after the due date. Your grade will be impacted negatively if this rule is broken.

Submission

Your GitHub repository, along with the User Guide in the Wiki and Issues tracker and all other GitHub facilities, will form the main submission of the project. Nothing outside git will be graded!

Student Conduct

You should familiarise yourself with GMIT’s code of student conduct and the policy on plagiarism. In particular, note two things. First, students are expected to treat other students and staff politely and with courtesy. Second, it is assumed that all work you submit is being presented as your own work, unless referenced otherwise.