



Final Year Project Expo App

User Manual

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Abstract. This user manual explores the requirements and instructions to run the Final Year Project Expo Application. It goes into detail about how to run the application and how to navigate the tabs in the application.

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1. Software/Hardware Requirements

The following software and hardware is required for running this Ionic application:

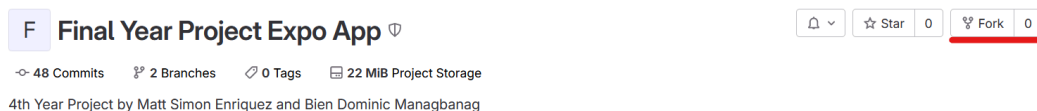
- Angular CLI
- Node.js
- npm
- Ionic
- Visual Studio Code
- Visual Studio 2022
- Android Studio
- A laptop or desktop computer

The required software listed above should be installed on their latest versions in order to run the application. Should an issue arise with the online API, Visual Studio 2022 can be used to run the backend locally. Visual Studio Code is optional because of its integrated terminal system. Any terminal or command prompt can suffice to run the application.

2. Installation

After installing the required software, the user who wishes to install this application should follow these steps:

1. Visit this link to download the Gitlab repository -
<https://gitlab.com/computing.dcu.ie/enriqum3/2024-ca400-enriqum3-managbb2>
2. On this page, click the fork button to make an independent copy of the repository

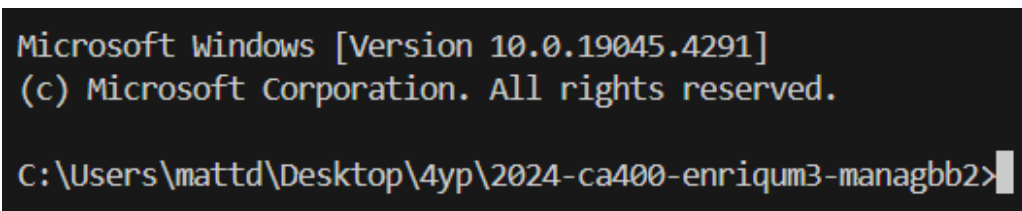


3. Fill in the details required to copy the repository
4. After forking, clone the independent copy of the repository
5. The user should now have an independent copy on their machine

3. Running the Application

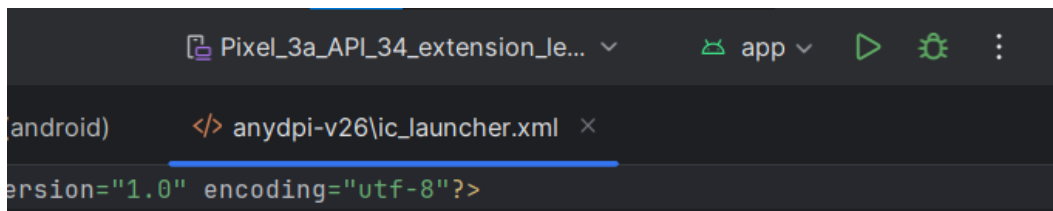
Once the user has their own independent copy of the repository, they should open Visual Studio Code or a terminal and follow these steps:

1. Open the folder of the independent copy of the repository on Visual Studio Code



2. Type "cd src\frontend\DCUExpo" into the terminal. The user should now be in the root directory of the Ionic application.

3. Type “`npx cap open android`” next. This will open Android Studio.
4. At the top of the window, there should be an option to select a device. Select Pixel and hit the green play button. The Android mobile device emulator should appear.



Note: If there is no device shown, you are required to add your own Android Virtual Device. Android 14+ must be used.

4. User Guide

4.1 Project List

When the user opens the application, they will be introduced to the project list tab. Here the user can select any project they are interested in. If the user wishes to select something more specific, they can use the filtering option. They can filter by project area, technology, student programme and project location. The user will be brought to the project details tab once they have selected a project.

4.2 Map

The map tab contains the floor layouts of the computing building and maps of its rooms. On this tab, the user will be able to see buttons which lead to the ground and first floor layout and the seven lab rooms where projects are demonstrated. The user will be able to press on a highlighted project booth of a room they have selected. Upon pressing the booth, they will be brought to the project details tab, displaying more information about the project that is being demonstrated in that room.

4.3 Project Details

The project details tab displays information about a project the user has selected. The user will be able to view the description, class or student programme, the project’s areas and technologies, the students and their emails, their supervisor and the project number and location. In the top right of the screen, there is a map icon. Pressing this will bring the user to the map tab and will highlight the booth of the project to show its location. If the user visits this tab without selecting a project beforehand, text will appear stating that a project has not been selected and they must go back to the project list to select one.

5. Screenshots

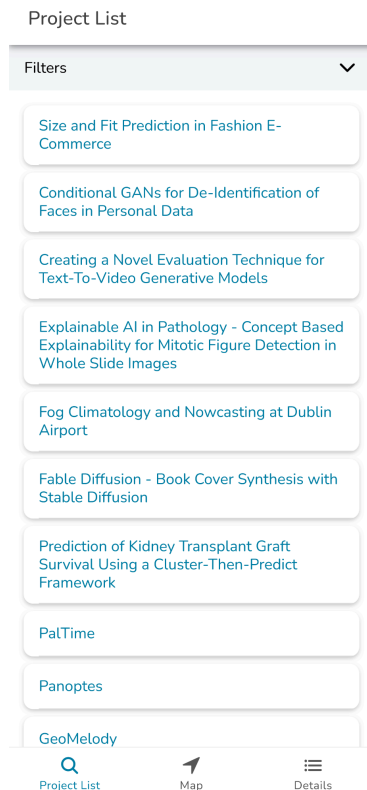


Figure 1. Project List tab

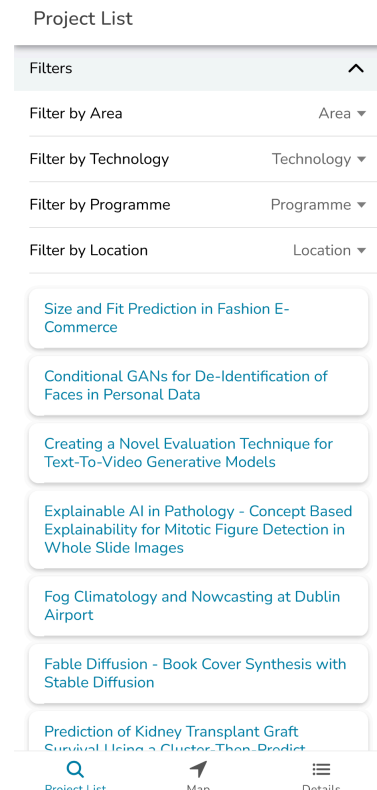


Figure 2. Filter option

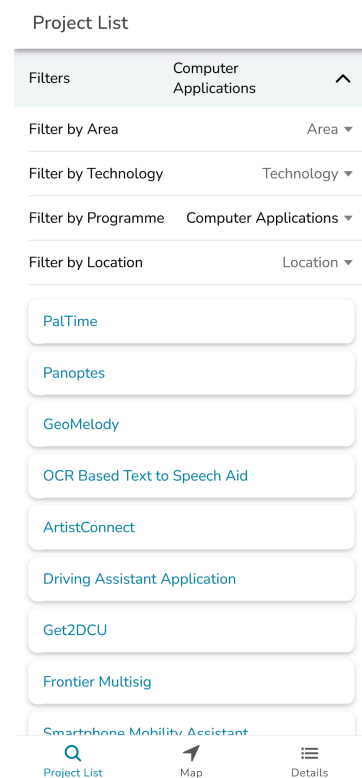


Figure 3. Filter selected

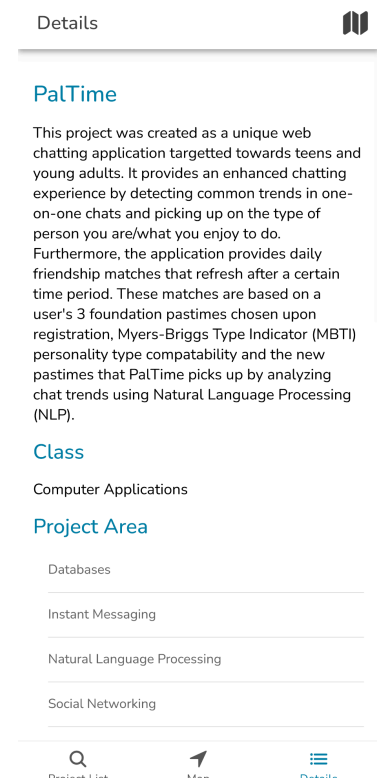


Figure 4. Project Details tab

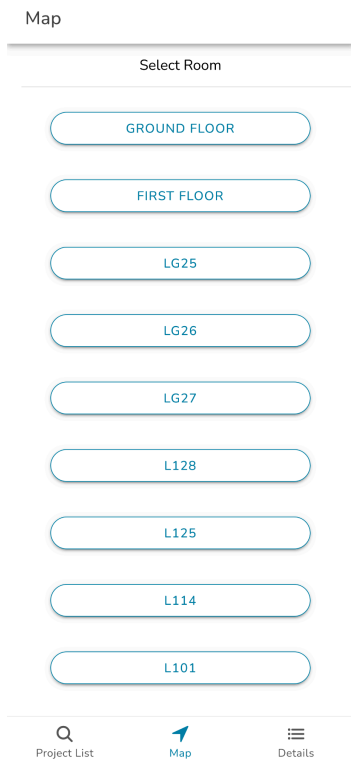


Figure 5. Map tab

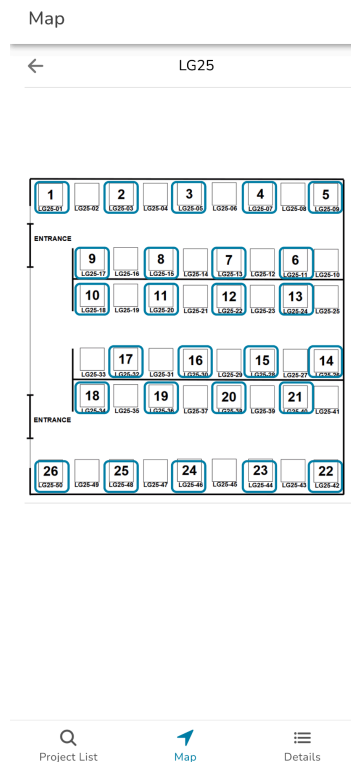


Figure 6. Room selected

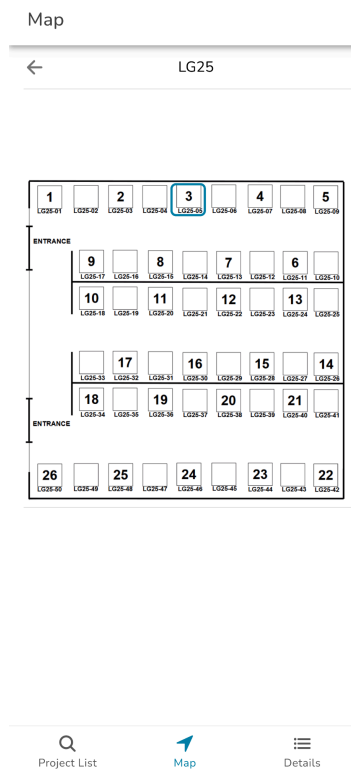


Figure 7. Highlighted project selection on map