



We are a team of two, consisting of Leyton Blackler and Celine Young. Our mobile application is an Instagram-like social media platform for sharing photos with friends. We have decided to call this platform Photon.

The general idea behind the Photon application is that a user will be able to share images with friends and contrastingly, be able to view photos shared by them. More specifically, the main functionality the Photon platform offers is the ability for users to:

- Create a personal account including their name, profile picture and short biography.
- Log in and out of their account.
- Upload photos to their own profile with a description and location.
- Click on the location of an image and have it displayed on a map.
- Search for other users and view their photos.
- Like photos.
- Comment on photos.

These above functionality requirements are what will make up the main Photon application platform and are what we believe would be achievable within the suggested time frame of 21 hours each. However, if in reality our estimations of time are incorrect, and we are actually able to complete more than anticipated, we would then like to attempt to implement additional functionality. This would include the ability for users to:

- Follow other users.
- View a home page feed displaying photos from followed users.
- Customise their account settings, such as changing their profile picture, biography and password.
- Delete photos they have already uploaded.
- Delete their account.

This is a rather complex application, consisting of many features, which will consequently take a substantial amount of time to all implement. This poses a difficult challenge as being over-ambitious with our feature definitions may cause our development time to take longer than expected due to unforeseen issues arising.

In order to develop a functioning application, external services for server-side storage and a Map API must be used. Currently, we are considering using Firebase and the Google Maps API, which are both platforms developed by Google. We do not have any prior experience using these which may therefore cause delays in the development process as we learn how to utilise these components.

In addition to this, although we are partially familiar with frameworks such as Angular, our understanding is still limited. Some upskilling will be required throughout the development process as we are completely new to the Ionic and React Native frameworks and have little server-side knowledge.

Therefore, we expect this to take at least the full 21 hours each (including recording of the demo). This equates to a total of 42 hours of work, collectively, for full completion of the primary features and functionality defined above, with the potential for some of the additional features and functionality if time permits.