

Justin

This assignment was a valuable learning experience for me, allowing me to dive deeper into Android Studio. I was responsible for building the program layout (java and xml) and implementing views and viewgroups. I found it fascinating to create a personalised Google Maps version within Android Studio. However, I encountered a few challenges.

One major hurdle was fixing the emulator's default location setting, which initially showed a location in the United States instead of Hamilton. This was due to the emulator's default location so it wasn't necessary to change it.

I struggled with accessing the API for latitude and longitude data, resulting in error 403.

Extensive research led me to use JsonObject to extract the data correctly.

Another struggle I had was getting the information to display in the WebCameraDetailActivity. My idea for solving this problem was to add all the items (title, city, region, latitude and longitude) into their own lists and then use the intent to pass that information to the WebCameraDetailActivity. At first, all the list items and cameras were displaying the same information so I implemented an index value to distinguish them.

Creating the layout was relatively straightforward, and I implemented Google's Autocomplete fragment for the search bar. Overall, this assignment expanded my Android Studio knowledge, problem-solving skills, and resourcefulness in app development.

William

Having two people on an assignment is great as we can synergise and contribute our knowledge as well as helping the other on their weaknesses, and vice versa. I was tasked with GitLab creation/maintenance and APIs, as well as other small java/xml android things. I was fairly good at java and xml as I have worked with them on previous COMPX202 projects. Most of the difficulties I faced with this assignment came from APIs and their integration into android. The start of the assignment was slightly slow due to how complicated separate programming is. We had to learn how to successfully create, push, pull and commit our assignment from two different devices. However, once this was solved, the rest of the assessment was fairly easy. The other main difficulties I encountered were getting APIs to work. Both APIs and JSON format are new to me so implementing them took a while, and a lot of trial and error. I used Toast and Textviews to display information to help me understand what information is doing what, and with the help of google, I was able to figure it out overtime.

Work Breakdown

- Part A Design
 - Justin - 70%
 - William - 30%
- Part B Implementation
 - Justin - 60%
 - William - 40%
- Part C Testing
 - Justin - 0%
 - William - 100%
- Part D Code Quality
 - Justin - 50%
 - William - 50%
- Part E Short Reflective Essay
 - Justin's part - 50%
 - William's part - 50%