
Getting Started:

Requirements:

- Android Studio Version 2.2 or above, with an emulator or Android device that has a minimum SDK of API 14: Android 4.0 (the target SDK is API 23: Android 6.0).
- A Facebook account
- A paypal sandbox account or you can use the following test account:
account name: cpen321float-buyer-2@gmail.com
password: cpen321f

Building the Project:

- First, clone the github repository at <https://github.com/Junwei-Su/CPEN321Float>
- Open up Android Studio. Click "Import Project" and locate the folder in which you have cloned the repository. Click on the file "FloatProject" and press "OK"
- The project should now be loaded on Android Studio. Click **Run > Run 'app'**
- Select the Android device or emulator you wish to load the application on and press "OK".

Running Tests:

- The tests in the document "Exploratory Testing" can be manually executed following the instructions outlined in each table under "Activities"
- There are some functional test cases under the test folder

Documentation:

- Project documentation and information can be found in the docs directory under the branch "tree": <https://github.com/Junwei-Su/CPEN321Float/tree/docs>

Source Code:

Source code directory structure:

```
src
├── main
│   ├── java/
│   │   └── com/
│   │       └── cpen321/
│   │           └── floatproject/ - Java files for app functionality
│   │               ├── algorithm/ - Source code for algorithms used in the app.
│   │               ├── campaigns/ - Source code for the Campaign class.
│   │               ├── charities/ - Source code for the Charity class.
│   │               ├── database/ - Source code for interacting with the db.
│   │               └── utilities/ - Source code for utility functions in the
app.
├── activities/ -source code for the android activity
├── res/ xml files for GUI
│   ├── drawable/ - Source for .png/.jpg images and xml Drawable resources.
│   └── layout/ - Source code for all the layouts of the app.
├── AndroidManifest.xml - file that provides essential info to run app.
└── AndroidTest/ - Source code for tests.
    ├── com/
    │   └── cpen321/
    │       └── floatproject/ - Java files to run tests.
```

Location:

On your computer's File Explorer:

To locate the source Java files (functionality of the application)

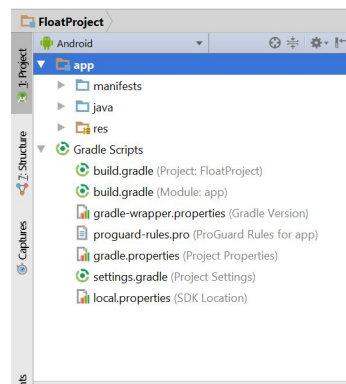
- Go to the project folder and click on *FloatProject* > *app* > *src* > *main* > *java* > *com* > *cpen321* > *floatproject*.

To locate the source xml files (GUI)

- Go to the project folder and click on *FloatProject* > *app* > *src* > *main* > *res*. The main XML files are under the folder *layout*.

On Android Studio:

Select the tab *1.Project* on the left of the window to open up the sidebar navigation. At the top of the sidebar, check to see that it is currently on *Android*



To locate the source Java files (functionality of the application)

- Go to *app* > *java* > *com.cpen321.floatproject*

To locate the source xml files (GUI)

- Go to *app* > *java* > *res*. The main XML files are located under *layout*

Design Patterns:

- **Template Method**
- **Command**
- **Adapter**
- **Front Controller**
- **Strategy**