**Software Implementation and Testing Document**

**For**

**Group 17**

Version 1.0

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# Programming Languages

Python is used throughout the entire project as well as Kivy’s .kv format for the layouts and string assignments. Worth noting that any ,kv text file functions as a sort of Strings.txt file in Android Studio projects.

# Platforms, APIs, Databases, and other technologies used

* 1. Kivy: Used throughout the entire project.
  2. Firebase and Pyrebase: Used for storing and retrieving login information.
  3. GeoPy: Used to permit applications Geo tagging system

# Execution-based Functional Testing

Functional testing of the project was done by each group member. After each push to the repository group member compiled and ran the application on their devices. Testers tested opening the app to see if the app open or crashed. Functionalities such as moving through tabs was also tested. Functional testing has yet to be done for Attendance, Geo-tagging, Sharing, Search, Listings, Noticatons, and Timeline.

# Execution-based Non-Functional Testing

Execution-based Non-Functional Testing is done by all the team members trying to log in into the app and see if they can login when they do not have an internet connection as the program require strong internet connection to run properly.

# Non-Execution-based Testing

The project has been delegated to team members in the form of design and function coding. As such, all the formatting and graphic functions have been reviewed by each of the team members during meetings and are walked through and altered to make sure the program is written in an effective manner and to ensure that a team member does not do any work that another team member can not integrate.