**Software Implementation and Testing Document**

**For**

**Group <X>**

Version 1.0

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# Programming Languages

*List the programming languages use in your project, where you use them (what components of your project) and your reason for choosing them (whatever that may be).*

FRONTEND:

We are using React Native, a javascript framework, to create everything on the front end.

# Platforms, APIs, Databases, and other technologies used

*List all the platforms, APIs, Databases, and any other technologies you use in your project and where you use them (in what components of your project).*

FRONTEND:

The main platform we are using is Expo. We are using a managed workflow on expo to simplify the process of designing an IOS and Android app simultaneously. As for API’s, the main ones in use include React Navigation and Native Base. React Navigation allows us to develop the navigation of our app including the drawer menu. From Native Base, we are using some premade components to style the app. React Navigation is embedded throughout the app whereas Native Base is only used when a premade component has a better design than the traditional react native components.

# Execution-based Functional Testing

*Describe how/if you performed functional testing for your project (i.e., tested for the* ***functional requirements*** *listed in your RD).*

FRONTEND:

The Expo CLI allows us to deploy the app and interact with it on our phones through the scanning of a barcode. While the app is running, we can test functionality and detect errors that arise in the code. Because there is a console log, we are also able to debug efficiently as we output messages to detect what is going on.

# Execution-based Non-Functional Testing

*Describe how/if you performed non-functional testing for your project (i.e., tested for the* ***non-functional requirements*** *listed in your RD).*

# Non-Execution-based Testing

*Describe how/if you performed non-execution-based testing (such as code reviews/inspections/walkthroughs).*