

# **Software Implementation and Testing Document**

**For**

**Group <23>**

Version 1.0

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## **1. Programming Languages**

Java - Functionality of features/activities

XML - Physical appearance

## **2. Platforms, APIs, Databases, and other technologies used**

Android Studio - integrated development environment for coding the application

Java API - packages to help develop functionalities

Firebase Realtime Database - NoSQL database for storing/syncing between users

## **3. Execution-based Functional Testing**

We created multiple profiles, went through them with the login and logout button. Removed them from the database and added them back.

Checked profiles that the proper email is showing

Went through the questionnaire multiple times to ensure proper scores being recorded and simultaneously checked that they were being recorded properly on Firebase

We used the chat on multiple devices and checked that the message data was being stored properly in its appropriate node.

Images were scrolled through to make sure none were so big that the app could crash.

## **4. Execution-based Non-Functional Testing**

Takes about 2 minutes to finish execution.

Warnings, but none that interfere with compilation.

## **5. Non-Execution-based Testing**

We did code reviews where one group member was assigned to read another group member's code after a merge.