Platform Document

What's HappNin

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Platform Description

The Android platform is Google Inc.'s open and free software stack that includes an operating system, middleware and also key applications for use on mobile devices, including smartphones.

Chosen IDE

The IDE is Android studio. It is supported by google. Android studio is widely used and recommended for Android development.

Frameworks

Android

The Android framework is the set of API's that allow developers to build interactive apps. The entire feature-set of the Android OS is available to you through APIs written in the JAVA language. These APIs form the building blocks you need to create Android apps by simplifying the reuse of core, modular system components and services.

Firebase

Firebase Database: Firebase Realtime Database is a cloud-hosted database. Data is stored as JSON and synchronized in realtime to every connected client. When you build cross-platform apps with our iOS, Android, and JavaScript SDKs, all of your clients share one Realtime Database instance and automatically receive updates with the newest data.

Non-Original Artifacts

- To develop apps in android you need to have JDK(java development kit). That can be downloaded from oracle.com. To write and test your app, android studio IDE is the best option available. Our group will also be utilizing the Google Maps Android API. This API will allow us to use API calls to add markers, polygons, and overlays to a basic map, and to change the user's view of a particular map area.
- To store our user information data, you have to have a database. We have decided to use firebase database which is developed by google.
- To use firebase database features you have to create an account.
- Changed the UI design according to the user needs.

- Added an option where image can be uploaded.
- Can show user and event location.

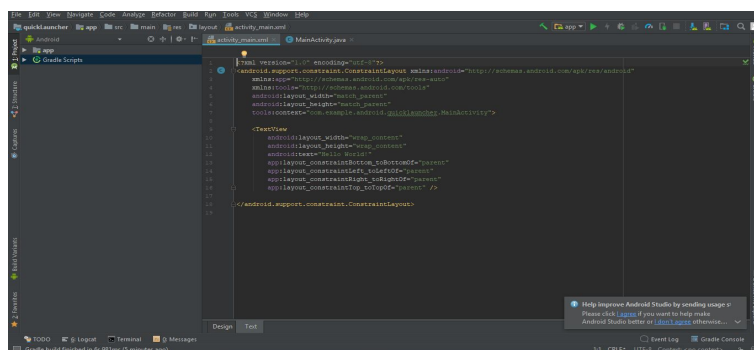# Installation Instructions

Android Studio

1. In order to download the Android IDE, one must first visit the site: developer.android.com/studio
2. Once on this page, one must click the download link in order to obtain the Android Studio
3. Next, the user will want to accept the terms and conditions and then launch the .exe file you downloaded
4. Finally, follow the setup wizard to successfully install Android Studio and any default SDK tools.

Firebase database

1. In order to use firebase, one must create account in https://firebase.google.com/.
2. After you have created an account, log in with email and password.
3. After you have logged in, add a project.
4. Then one must create a connection between android studio project and the firebase database project.
5. Firebase can automatically authenticate usernames and password.
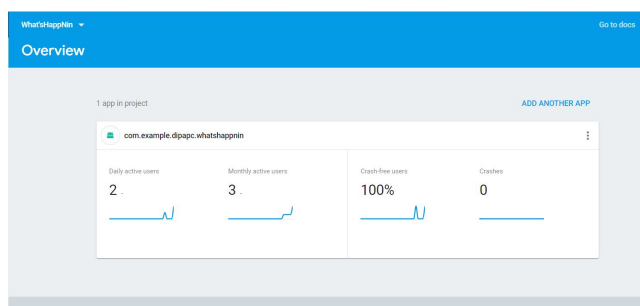6. Stores data and sync data in real time.

Running Instructions

- To run the application you have to choose the play button in green on the top right . To configure the project, you have to make a new project and follow instructions.

- This is how the data is stored in the firebase database.
- To add a user one must create account and click the submit button.

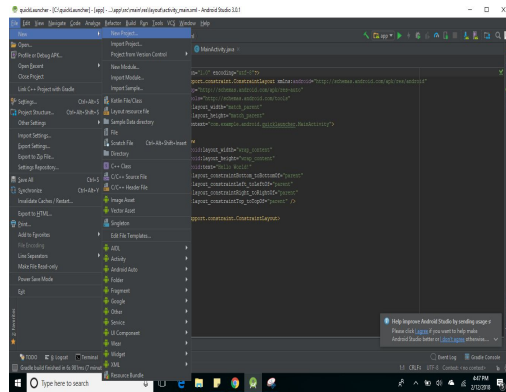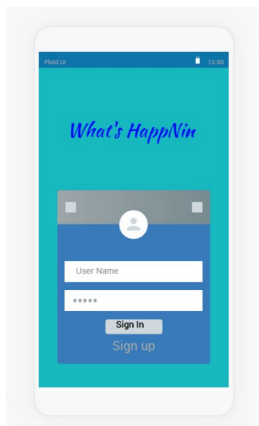- Statistics of the user and the database is also shown above from firebase database.

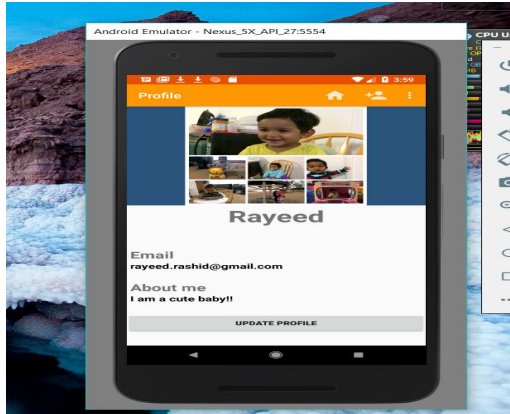
- Stores images uploaded by the user

Configuration/Compile Instructions

- To configure the project, you have to create a new project make sure to check the option "Empty Activity".
- Google play services: In android studio, go to tools, android, SDK manager, SDK tools. Select Google Play Services then click apply to install google services.

- To sign up click the button sign up.
- The button will lead to an activity where you enter name, email and password.
- To sign in click the sign in button
- The button will lead to the menu activity where the use can choose from different options.

- Image of the user uploaded.
- To upload an image just tap the option of upload while creating profile.