# Android Application Requirements

**Technical Requirements**

Native Android application supports android version 4.4(KitKat) and above.

Entirely developed with Java (No Kotlin)

Firebase Backend.

* + Authentication
  + Realtime Database
  + Push Notifications
  + Other Firebase tools developer might be found necessary.

Developer will use their own firebase account for development and testing.

**Functional Requirements**

**Splash screen**: 1 second (use any picture)

**Login Activity**: Initial activity to display onCreate.

Allow to login, register and handle forgotten password(google login).

If the user is logged in before don’t show login page, show main page.

Login should be done using email and password.

Logo on the top (Any picture will do)

**Profile activity:** If the user is logging in for the first time (after registering) this activity is showed.

Activity will display google maps and ask user to drop a pin or enter the name for setting 3 locations of the map display.

User must select at least 1 location other locations can be set later if user navigates to the profile activity from main page activity.

Optional profile picture upload, if not uploaded show default (any picture)

Additional optional fields to store user phone number, Gender, Age

Reputation field set to 0 initially. Showing 5 empty stars. Every 5 upvotes user receives will add half a star being coloured yellow so 50 upvotes will show 5 the stars coloured in yellow which is max which can be achieved but total number of upvotes will show as a number beside the stars which has no limit.

**Main Page Activity:** This activity should have a logo at the top and 3 sections which can be swiped between. *Queries, Answers and Profile.*

*Queries* will display list of queries (titles only!) placed by other users. Only queries which match the location of the user will be displayed. (Current location or one of the 3 locations saved in the user profile) Queries are 280-character limited texts with a 70-character limited title.

User can click these queries to read the text and posted answers by all the users (limit to 10).

Users should be able to

1. Answer query

This will allow 280 characters limited answer to be placed to this query

1. Edit their own answer
2. Upvote/Remove upvote the query
3. Upvote/Remove upvote answers (only 1 upvote)
4. Return to Queries view

There should be a button on the very bottom of this section which allows users to place queries themselves. This button will open the place query activity.

*Answers* will be the second section in this activity which will show a list of answers placed by the user. User can click these answers to edit them. hey can change maximum of 50 characters and cannot edit their answer more than 2 times!

*Profile* is the final section of this activity which will display the previously discussed profile activity.

If its possible limit the location changes to 1 per week. This is if the user is trying to change the stored locations.

**Place Query Activity:** This activity will display a new screen where user can place a maximum 280-character query with maximum 70-characters title. User should be able to pick a location from the map for the query location or use one of their profile locations or their current location.

Once the query is placed application should go back to main activity

Queries will require a time stamp and automatically deleted after 7 days, points will remain in user profiles

**General rules:**

* If he location services are disabled only use user profile locations for application logic
* Push notifications if there is a new query in the user locations, new answer to a user’s query or new upvote to a query or answer placed by the user.
* Selected location will stretch 5-mile radius from dropped pin (or clicked on the map)
* Clean and simple design with minimal colours 3 or 4 maximum
* Other layout designs will be considered if covers the required functionality.
* This application will not be uploaded in to any app store
* No other backend services or connections required other than firebase