**IDE:**

* Android Studio

**Language:**

* Kotlin
* XML
* JSON

**Design Patterns:**

* MVVM

**APIs and Dependencies:**

* StackExchange API
* Retrofit
* RxJava
* AndroidViewModel
* Glide

**Descriptions:**

* Registered in StackExchange API to get unique key
* Gets the input from user as ‘Name’
* If the user taps ‘Search‘ button without name, the Toast will appear and reports the user to enter in the name.
* If the the user taps ‘Search‘ button with name, then the network will be called using the ViewModel and LiveData.
* The request has the below properties,
  + pagesize
  + sort
  + order
  + key
  + inname
* The response will be observed by the LiveData variable in ViewModel class that updates the UI.
* The RecyclerView will get loaded with the list of user’s name and reputation.
* If the user taps one of the item in RecyclerView, that will takes to the next details screen which shows more data about the user including a imageView.
* Used Glide to fetch the avatar of the users with the given URL.
* The details screen title will be updated with the current user name.
* The age of each user has been calculated with the creation date as day 1.

 