## StackOverflow Users

Develop an Android application that fetches a list of StackOverflow users and displays it in a list on the screen.

### **Functional Requirements**

- When the app is launched, the user should be able to see a list of the top 20 StackOverflow users.
- Each list item should contain the user's profile image, name and reputation.
- Cells should contain an additional option to 'follow' a user. "Follow" functionality should just be locally simulated, i.e. no actual API call should be made.
  - o Users that are followed should show an indicator in the list item.
  - o Include an 'unfollow' option in the view when a user is followed.
  - o "Follow" status should persist between sessions.
- If the server is unavailable (e.g. offline, error response etc), the user should see an empty state with an error message.

## **Technical Specifications**

- Emphasise testability and architecture use whatever pattern you like, but be prepared to justify your decision!
- Your code should be covered by unit tests.
- Your UI is entirely up to you, but please use Compose to build your views.
- Write in Kotlin no Java.
- No 3rd party frameworks we want to see what you can do!
- Deliver your work as a Git repository, preferably on Github or Bitbucket so we can see your commit history.
- Include a README explaining how your app works, any installation requirements, and details behind any technical decisions you made while developing it.

### Additional Information

This is a take-home exercise and you should take as much time as you need, but try not to spend too long on it. All code must be your own.

# Example of requests/responses

StackOverflow users API:

```
GET
http://api.stackexchange.com/2.2/users?page=1&pagesize=20&order=desc&sort=reputation&site=stackoverflow
```

#### Example Response (truncated for brevity):

```
None
{
       "items":[
              {
                     "badge_counts": {
                            "bronze": 9255,
                            "silver": 9202,
                            "gold": 877
                     },
                     "account_id": 11683,
                     "is_employee": false,
                     "last_modified_date": 1711287919,
                     "last_access_date": 1711355649,
                     "reputation_change_year": 13860,
                     "reputation_change_quarter": 13860,
                     "reputation_change_month": 3856,
                     "reputation_change_week": 118,
                     "reputation_change_day": 30,
                     "reputation": 1454978,
                     "creation_date": 1222430705,
                     "user_type": "registered",
                     "user_id": 22656,
                     "accept_rate": 86,
                     "location": "Reading, United Kingdom",
                     "website_url": "http://csharpindepth.com",
                     "link":
                     "https://stackoverflow.com/users/22656/jon-skeet",
                     "profile_image":
                     "https://www.gravatar.com/avatar/6d8ebb117e8d83d74ea95fb
                     dd0f87e13?s=256\&d=identicon\&r=PG",
                     "display_name": "Jon Skeet"
              }
       ]
}
```

#### Response schema:

```
None
{
       "items": [
             {
                    "badge_counts": {
                           "bronze": String,
                           "silver": String,
                           "gold": Int
                    },
                    "account_id": Int,
                    "is_employee": Boolean,
                    "last_modified_date": Int,
                    "last_access_date": Int,
                    "reputation_change_year": Int,
                    "reputation_change_quarter": Int,
                    "reputation_change_month": Int,
                    "reputation_change_week": Int,
                    "reputation_change_day": Int,
                    "reputation": Int,
                    "creation_date": Int,
                    "user_type": String,
                    "user_id": Int,
                    "accept_rate": Int,
                    "location": String?,
                    "website_url": String?,
                    "link": String,
                    "profile_image": String?,
                    "display_name": String
             }
       1
}
```