Authme Android App Test

Objective:

Develop an application that displays a list of GitHub users and their details. The project will be split into two main parts:

1. SDK Development:
- Craft a robust SDK called "GitHubUserSDK" using the GitHub API. This SDK will encapsulate all logic related to GitHub users, such as fetching lists, searching by username, and obtaining detailed user profiles.
- (Optional) Use GitHub Actions to automate the SDK module's release process to GitHub Packages. This integration should be manageable through Gradle for easy versioning and dependency control.
1. Application Development:
- Implement a feature in the app that filters the user list based on the 'login' attribute. Ensure this functionality is verified with unit tests.
- (Optional) Develop UI tests to validate the application's interface and interactions.

GitHub API Reference:
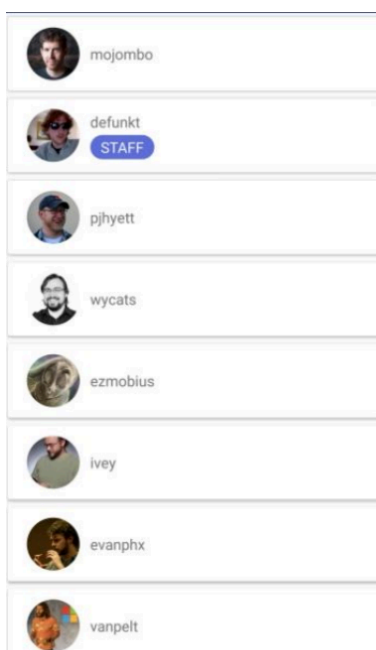- User List: Get all users
- Pagination: Link header (optional)

Guidelines:
- Adhere to the MVVM architectural pattern.
- You may use third-party libraries.
- Feel free to make assumptions where the task is unspecified.
- Pagination and UI tests are considered bonus features and are optional.
- Upon completion, include a **readme.md** to document your approach and decisions.
- UI specifications such as size, margin, padding, icons, etc., are at your discretion.
- The final project, complete with commit history, should be uploaded to GitHub with read access granted to dev@authme.com.

SDK Specifics:
- The SDK should be developed with a focus on clean design and best practices.
- Unit tests must cover essential SDK functionalities to ensure reliability.
- Metadata included in the GitHub Packages release should provide clear versioning and dependency details.
- If you opt to implement SDK packaging automation, the README should contain a comprehensive guide for integrating the SDK.
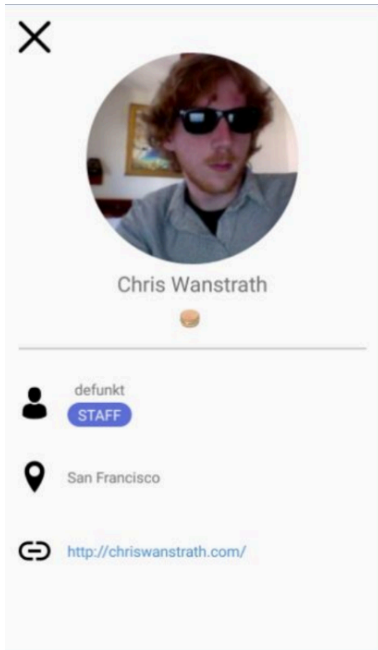
List UI Specifications:

- Display user avatars (**avatar_url**).
- Show GitHub IDs (**login**).
- Indicate if a user is a site administrator (**site_admin** badge).
- Implement a non-paginated list, starting with **since=0**, and a page size of 30 items, limited to 100 users in total.

Bonus Stage:

- If time allows, please expand the SDK to incorporate user detail retrieval and presentation, following the provided UI mockup.

- The SDK should offer methods to fetch and display the following seamlessly:Avatar (**avatar_url**)
- Full Name (**name**)
- Bio (**bio**)
- GitHub ID (**login**)
- Staff Status (**site_admin**)
- Location (**location**)
- Personal/Professional Website (**blog**)
- The SDK must manage API communication, data parsing, network state, and error handling, providing a smooth experience for the app users.

For further clarity, refer to the GitHub API documentation for getting a single user. Your SDK should simplify the process of displaying user details when a list item is clicked in the app interface.