

## Android Developer Test Assignment

The aim of this test assignment is to build an App that connects to the Github API, shows the public repositories of a particular user and then retrieves their respective last commits.

### Prerequisites

Please create a Android Studio / Gradle Project and upon completion of the task and submit it as .zip file. The Project needs to compile and be executable on a state of the art Android Phone. Use SDK Level 19 and above.

**Do not use any 3rd party Library, except for the data persistency layer. Volley is a 3rd party library. Try and keep the project as vanilla as possible.**

Please do not spend more than 3 hours on the task. We expect incomplete solutions - the task is designed that way.

### Task 1 - Connect to the Github API

Connect to the Github API to retrieve the list of public repositories in your Github Account. Alternatively, use this account: <https://api.github.com/users/mralexgray/repos>

This results in a list of public Repositories. Visualize the results in a list. You are free to choose any meaningful subset of data to show in each row.

### Task 2 - Asynchronously load the last commit

Once the list has been populated, start retrieving information about the last commit for each repository. This can be done with the following call:

<https://api.github.com/repos/mralexgray/ACEView/commits>

Where “[mralexgray](#)” (see Task 1) is the user and “[ACEView](#)” the repository under consideration. Again, feel free to choose any meaningful subset of data to add to the row upon a successful response. Make sure that the list is scrollable while data is loading.

### Task 3 - Add a Data Persistency Layer (eg., Realm.io, SQLITE)

Add a Data Persistency Layer to store the Repository Information. Do not store the commit information. Once this layer is there, change the app behavior in a way that the app first shows the content stored on the phone and then requests Github for new data. Subsequently, that data is updated in the persistency layer.