

# Webapp Coding Challenge

Welcome to the Work4All Tech Challenge. Glad you want to work with us! We are very excited to learn more about you.

The main goal of this exercise is to assess your approach to problem-solving, as well as your ability to write clean, well-tested, and reusable code and how you model data in a data store. There are no trick questions or algorithms to solve.

## The Task

Create a web application (PWA) that searches the GitHub Users API (<https://docs.github.com/en/rest/reference/search>) for users and displays the result as a list. Elements of this list can be marked as favorites.

## Requirements:

- We use react.js with Typescript for development
- The GitHub API is rate limited without an API key, how you handle this is up to you
- Apart from react.js use whatever libraries and architecture you like and think would be suitable to solve the case
- Provide the results via a git repo using a git provider of your choice (github, gitlab, self-hosted, ...)

## Required: Spec Data Retrieval and Storage

- Call the GitHub search API when there is a minimum of 3 characters entered in the text input field
- Data should update when the text input changes
- Store information of favorite status locally, so it can be used consistently in different views

## Optional:

- Basic offline-first functionality, which still displays data even if the device is offline

## Required: Spec Data Display

- Text input to enter queries to search for
- Listview which displays username and avatar
  - o Paginate while scrolling (Infinite Loader)
  - o Should support pull to refresh
- Clicking on an item should open a detail view showing some userdata you would like to display
- Possibility to mark users as favorites from list view and detail view

## Optional:

- Listview should be performant with bigger datasets

Design:

<https://www.figma.com/file/37uZq0NVHC74CR77AtIB1K/Untitled?node-id=2%3A3226>

We hope you enjoy our little code challenge!