React Final Project

# Introduction

The React Final Project is a final exam for Salucro Engineers that have completed their React training. It will touch upon all aspects of the type of code you will encounter within the Salucro React code bases.

# Problem Statement

Create a single page application using GitHub’s API to search for GitHub users and view their profile page.

## Requirements

You must use the following technology:

* TypeScript
* SASS
* Redux
* React-Redux
* Redux Sagas
* React Router
* Axios for HTTP calls
* Bootstrap 4 for styling

## Components

All components should be functional components and make use hooks. This should include using hooks provided by 3rd party libraries being used, e.g. React-Redux.

Screens should be decomposed into components, with multiple components making up a single screen.

Each component should have a corresponding test associated with it using:

* Jest
* @testing-library/react
* @testing-library/jest-dom/extend-expect

## User List

The User List component should be made up of a grid of data, fetched from the API. Bonus points for using infinite scrolling to scroll through the data.

Each row in the User List (or Search Result) should display the Avatar, name, and username for each result. It should look like the <https://github.com/orgs/github/people> page. Please ignore the follow button, organization permissions, and top navigation.

Clicking on the Avatar or Username should send the end user to the User Profile page.

## Search

The search component should use the GitHub search API, <https://docs.github.com/en/rest/reference/search#search-users>.

Search results should replace the results in the User List, allowing for the Search Results to be cleared out and the original list to be displayed. Please note, this is not filtering the displayed results, it is searching using the search API.

## User Profile Page

Using the users API, <https://docs.github.com/en/rest/reference/users#get-a-user>, and the repos API, <https://docs.github.com/en/rest/reference/repos#list-repositories-for-a-user>, to implement a User Profile page.

The page should display the user info on the left side and a list of the user’s repos o the right side. It should look similar to <https://github.com/octocat?tab=repositories>. Please ignore the top navigation, search, follow button & type, and language dropdown sections.

Provide a dropdown on top to select the ***sort*** parameter mentioned in the repos API documentation. Changing the dropdown value should automatically update the repos list.

## Routes

You should have the following routes setup:

* **/** - Should display the Search component and User Lists
* **/users/:username** – Displays the User Profile page

# Getting Started

You will need to fork the project located here - <https://bitbucket.org/salucro/react-final-project/src/master/> to your personal BitBucket account. This project only allows Private forks, so you will need to allow the following people to have access to the repo:

* Alec
* Tejas
* Your Team Lead

**THIS MUST BE DONE AS SOON AS THE REPO IS FORKED**.

This contains the base architecture, but with a lot left to be completed.

# Expectations

It is expected that you will complete this in the allotted time given, meeting all criteria laid out above. Not meeting a single criterion will result in an automatic failure, as engineer’s attention to detail matters. If you have bugs, that is okay, we do not expect you to be perfect.