

Question: Develop a frontend based upon ReactJS/AngularJS to implement typeahead or auto-complete feature on the web UI.

Category: Frontend UI

Tags: Users UI, REST API

PreCondition: “Users Question for Backend – 006” has been solved and the REST API endpoints to fetch the users on various criteria are working.

Develop the frontend app to display a typeahead or auto-complete search bar on the header section of the default page.

The frontend user should be allowed to enter the user’s *firstName* and/or *lastName* and/or *ssn*. Upon entering the first 3 characters, the frontend app calls the backend API, which in turn makes the free text search to fetch all the users matching the partial text entered by the user. The results are displayed in the dropdown below the search bar for user to scroll and click.

Pick and choose the user’s attributes (at least, choose *id*, *firstName*, *lastName*, *ssn* and *email*) to be shown in the typeahead or auto-complete dropdown.

User should then be allowed to click on the line item on the typeahead or auto-complete dropdown and navigate to the details page of the user. The user’s *image* must be rendered on the details page.

Fire your imagination to design the UI pages.

Expectations:

1. The code should follow clean code practices
 - a. Atomic design
 - b. Exception Handling
 - c. Environment Layering
 - d. Unit testcases & Code Coverage
 - e. Externalized config parameters, if any
 - f. README.md file to describe the frontend and steps to build and run it
2. The frontend UI app should be developed as single page app.
3. The frontend UI app should demonstrate the responsive design features.
4. The frontend UI app should demonstrate lazy loading techniques, as applicable.