**Constraints:**

This exercise should be done using Angular 2 or later versions.

Each functionality should have unit test.

The final result should be runnable on browser (Chrome).

**Exercise 1: Create User Screen with add, modify & delete feature.**

**Fields:** Email, password, first name & last name.

**Criteria**:

* All fields are mandatory
* Email field should have email validation
* Password should be 8 minimum & maximum 20 characters.
* Password should contain at least one number & one upper case letter.

**Exercise 2: Create Login screen**

**Fields:** Email & Password

**Criteria:**

* All fields are mandatory
* Email field should have email validation
* Password should be 8 minimum & maximum 20 characters.
* Password should contain at least one number & one upper case letter.
* Password should have shown or hide button.
* If the login is successful, the user should be navigated to welcome page.
* In the welcome page, should have logout button to come back to login page.

**Exercise 3: Create User List Screen (i.e. Grid Format) with filtering, paging & sorting feature**

**Fields:** First Name, Last name, email, created date & modified date.

**Criteria:**

* A grid format data representation should show list of users.
* All the columns should have filtering functionality.
* All the columns should have sorting functionality except email column.
* The grid should have pagination. At a time, only 5 users can on the grid.
* Up on previous or next button click, the subsequent user list should be shown on grid.

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