**Github User Explorer**

This application is built to let the user navigate between users made available by some Github’s APIs.

**Setup**

To make this app working there are some steps to do:

* Clone the GitHub repo in local
* If they are not already present you will need to install npm and NodeJS on the computer:
  + ***https://www.npmjs.com/get-npm***
* Open the terminal in the folder and install the necessary node\_modules with the command:
  + ***npm i***
* If it is not already present, you will need to install Angular CLI with the command:
  + ***npm i g @angular/cli***
* In the same folder run the command
  + ***ng serve***
* Open the following address into the browser:
  + ***http://localhost:4200***

**Description**

The application has two main pages:

* **Homepage:** which mainly presents a search bar (that can filter by name the users list) and a list of clickable users, once the name of one of these users has been clicked it is possible to go to the user's details page.
* **User’s details page**: Page that show in the top the user’s information on the left and the avatar on the right; the bottom page is divided into 2 section: on the left we find the list of the repositories and on the right the list of the followers user of the user. The only way to reach this page is that the user clicks on a name in the Homepage. From this page is possible to reach the Homepage by clicking the navigation tree in the top on the left.

There is the possibility to switch theme from the file styles.scss by comment/uncomment prebuild angular themes.

**Code strategy**

The app is divided into 2 main pages that use the angular routing to move from each other.

To manage the data, I used Rxjs. To manage the layout and responsiveness I used angular flex layout because I think it is easy to use and to understand, more efficient than media query.

The forms are created using the reactive forms that are way more efficient than classic template driven form. For the styling I have chosen to use SCSS with the application of BEM (Block Element modifier) naming. All the structural directives are inserted into the tag <ng-container> that has no styling and it is created on purpose for them.

To improve the performances of the application I used **ChangeDetectionStrategy – OnPush** to prevent unuseful DOM refresh.