## React

- JS library to build user interface
- developed and donated by facebook (meta)
- facebook has made the react open source in 2013

#### commands

• install yarn

```
> npm install -g yarn
```

create a new project

```
> npx create-react-app newapp
```

run a react application

```
> cd newapp
```

- > yarn start
- test a react application

```
> yarn test
```

• build the react application

```
> yarn build
```

# file hierarchy

- node\_modules
  - o contains the node packages required to run the react application
- public:
  - o contains the static data
  - o e.g. css, index.html, images
- src:
  - o contains the application source code
  - o index.js:
    - entry point to the application

- application starts with index.js
- o App.js
  - contains the first/startup component
- .gitignore
  - o contains the list of files/directories which are not needed to add to the git repository
- package.json
  - o contains the dependencies
- README.md
  - o contains the read me instructions for the application
- yarn.lock
  - o contains the packages versions used in the application
  - will get automatically created

### component

- reusable entity defined by react
- created by
  - using a function
  - o using a class
- may represent
  - o an entire page
  - o a part of a page

#### react routing

- documentation
  - https://reactrouter.com/docs/en/v6
- installation
  - > yarn add react-router react-router-dom

#### blogs

• create and configure the application

```
> npx create-react-app blogs
```

- > cd blogs
- > yarn add react-router react-router-dom axios moment moment-timezone
- packages
  - react-router and react-router-dom
    - needed for adding page/component switching functionality
  - axios
    - used for calling the REST apis

- moment and moment-timezone
  - used for time/timezone conversion