Cypress Automation

Installing Visual Studio Code:

Download Visual Studio Code here https://code.visualstudio.com/download

Installing Cypress:

- · Create project folder in desired location
- · Navigate to folder via command prompt
- · Follow instructions here:

```
https://docs.cypress.io/guides/getting-started/installing-cypress.html#npm-install npm install --save-dev typescript
```

• Important after install open cypress by using ./node_modules/.bin/cypress open This creates additional folders in project folder

- Next create package.json for cypress project
 - In Visual Studio Code command terminal type:

npm init (and go through its options)

Note: package name will be package name of project folder by default

Note: press Enter leave options blank

Package.json Video Link: https://www.youtube.com/watch?v=kxzHbxlmXW8

- After all options completed package, json file will be created
- · Next change how cypress is started from command line
 - Add the following to package.json
 https://docs.cypress.io/guides/getting-started/installing-cypress.html#Adding-npm-scripts

 "scripts": {
 "cypress:open": "cypress open"

 }
 - now start cypress npm run cypress:open
 no longer do we need to use ./node_modules/.bin/cypress open

Cypress Add-Ons:

cypress-xpath

https://www.npmjs.com/package/cypress-xpath
add require('cypress-xpath') to cypress/support/index.js

cypress-wait-until

https://www.npmjs.com/package/cypress-wait-until

 $add \; \texttt{import 'cypress-wait-until'; } \; to \; \texttt{cypress/support/commands.js}$

 Install jQuery add-ons of jQuery type API call ability npm install jquery --save npm install @types/jquery --save

Visual Studio Code Add-Ons:

- Install TypeScript
 - https://www.npmjs.com/package/typescript
- After TypeScript installed create tsconfig.json file (if not already created) https://docs.cypress.io/guides/tooling/typescript-support.html#Install-TypeScript
- Next add the following
 - Make sure following is added to file: "target": "es5",

```
rarget: ess,
"module": "commonjs",
"lib": ["es6", "dom", "es2017"],
```

- add this at end of file "**/*.ts", "node_modules/cypress-xpath", "node_modules/cypress-wait-until" https://www.typescriptlang.org/docs/handbook/tsconfig-json.html
- also add to file "suppressImplicitAnyIndexErrors": true, https://stackoverflow.com/questions/40358434/typescript-ts7015-element-implicitly-has-an-any-type-because-index-expression

Set Up Local React Environment

- Install Docker
 - https://docs.docker.com/docker-for-windows/install/ https://hub.docker.com/editions/community/docker-ce-desktop-windows/
- After installing docker you may be asked to restart laptop
- clone https://github.com/DiligentCorp/be-react-web.git
 After clone put in like C:\BE React\be-react-web-master
 - Then also clone https://github.com/DiligentCorp/material-atlas.git
 - Then put in same folder at same level as above C:\BE React\material-atlas-master
 - Rename C:\BE React\material-atlas-master to C:\BE React\material-atlas
- install NodeJS
- Install nvm (node version manager` and ensure you're using Node version 12.16.1 https://nodejs.org/dist/v12.16.1/
- Install the yarn package manager
- Run yarn install while inside the root of the be-react-web folder on your machine to install app dependencies
- Run yarn run start and see if you can get the app running on localhost:3000