API Automation using Cucumber.JS, JavaScript and SuperTest

- Create a new folder, **APICucumberJS,** this will be our Project root
- Open this folder via VSCode
- In the VSCode terminal initiate a new NPM project – **npm init.** This will create a package.json file in the **APICucumberJS** folder.
- Go to the package.json file and add **"main": "index.js",** at line no 5, this will make our project use the ES modules instead of the CommonJS modules.
- Install Cucumber -- **npm install --save-dev @cucumber/cucumber**
- Install Chai Assertion Library -- **npm install --save-dev chai**
- Install SuperTest -- **npm install --save-dev supertest**
- Install Faker -- **npm install --save-dev @faker-js/faker**
- Create a folder, **features.** This will contain all the project files.
- Create the feature files in the features folder or create multiple folders under **features/** which will then have the feature files.
- Create a subfolder, **features/step_definitions.** This folder will have all the step definitions
- Create a subfolder, **features/reports**. This folder will store the reports generated after the test run
- Create a subfolder **features/support** and create the **hooks.js** and **configs.js** files

Running commands:

```
.\node_modules\.bin\cucumber-js
    -- This will run all the feature files

.\node_modules\.bin\cucumber-js --format html:.\features\reports\Report.html
    -- This will run all the feature files and store the report to the reports folder

.\node_modules\.bin\cucumber-js .\features\UsersAPI.feature --format html:.\features\reports\Report.html
    -- This will run all the UserAPI.feature file and store the report to the reports folder

.\node_modules\.bin\cucumber-js --tags "@AutomatedTests" --format html:.\features\reports\Report.html
    -- This will run all the features tagged with @AutomatedTests tag and store the report to the reports folder

.\node_modules\.bin\cucumber-js .\features\UsersAPI.feature --publish
    -- This will run all the UserAPI.feature file and publish the report to Cucumber cloud
```

Gluing feature files to step defs in VSCode :

- Install Cucumber (Gherkin) Full Support via the VSCode Store (Reload after installation)
- Open File → Preferences → Settings
- Go to Workspace → Open settings.json (Icon on top right)
- Add the below code

```
{
    "cucumberautocomplete.strictGherkinCompletion": true,
    "cucumberautocomplete.syncfeatures": "features/*/*feature",
    "cucumberautocomplete.steps": "features/step_definitions/*.js"
}
```

- Reload VSCode and now you can navigate from Feature files to step def
- Reference : https://stackoverflow.com/questions/55363967/navigating-from-feature-file-to-step-defination-any-plugins

Folder Structure: