

Installation Steps

Follow these steps to set up the project with Cypress and TypeScript, along with the Cucumber preprocessor:

1- Create a project and install Cypress with TypeScript.

2- Install Cucumber:

Run the following commands in the terminal:

```
npm i @badeball/cypress-cucumber-preprocessor
npm i cypress @bahmutov/cypress-esbuild-preprocessor esbuild
```

The package.json file should look like this:



```
package.json X
package.json > ...
1  {
2    "devDependencies": {
3      "cypress": "^13.5.0",
4      "typescript": "^5.2.2"
5    },
6    "dependencies": {
7      "@badeball/cypress-cucumber-preprocessor": "^19.1.0",
8      "@bahmutov/cypress-esbuild-preprocessor": "^2.2.0",
9      "esbuild": "^0.19.5"
10   }
11 }
12
```

3- Configure Plugins:

- Create a new folder named "plugins" under the "cypress" directory, and then create an "index.js" file inside it.
- Add the following code to "index.js":

```
const createBundler = require("@bahmutov/cypress-esbuild-preprocessor");
const addCucumberPreprocessorPlugin =
  require("@badeball/cypress-cucumber-
preprocessor").addCucumberPreprocessorPlugin;
const createEsBuildPlugin =
  require("@badeball/cypress-cucumber-
preprocessor/esbuild").createEsbuildPlugin;

module.exports = async (on, config) => {
  const bundler = createBundler({
    plugins: [createEsBuildPlugin(config)],
  });
  on("file:preprocessor", bundler);
  await addCucumberPreprocessorPlugin(on, config);
  return config;
};
```

4- Configure cypress.config.js

Update the cypress.config.js file with the following content:

```
import { defineConfig } from "cypress";

module.exports = defineConfig({
  e2e: {
    baseUrl: "yourBaseUrl",

    async setupNodeEvents(on, config) {
      {

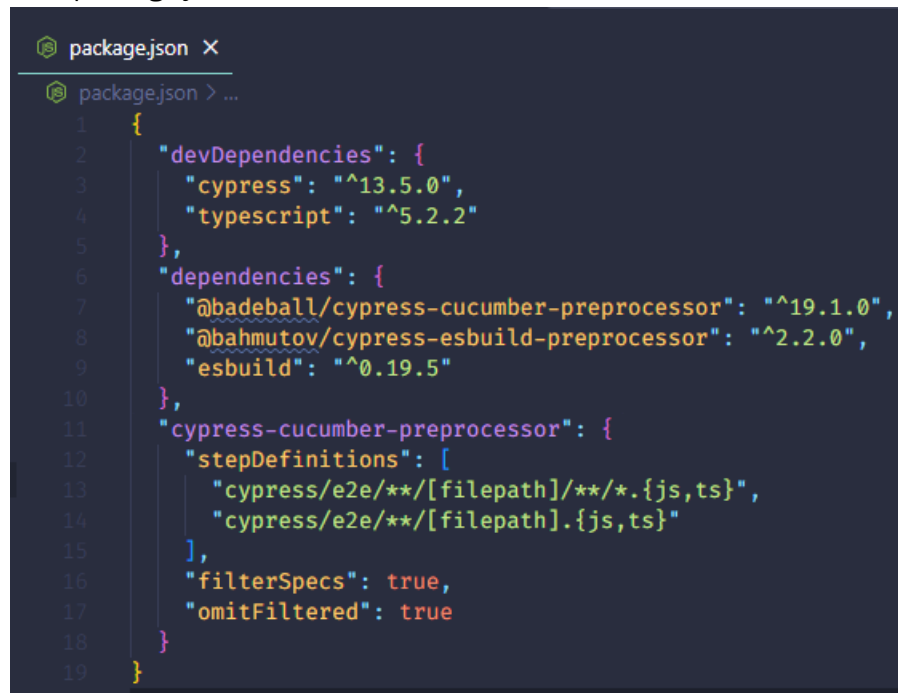
        // implement node event listeners here
        return require("./cypress/plugins")(on, config);
      },
      specPattern: "cypress/e2e/*.feature",
    },
  },
});
```

5- Update package.json:

In the package.json file, add the following configuration for the Cucumber preprocessor:

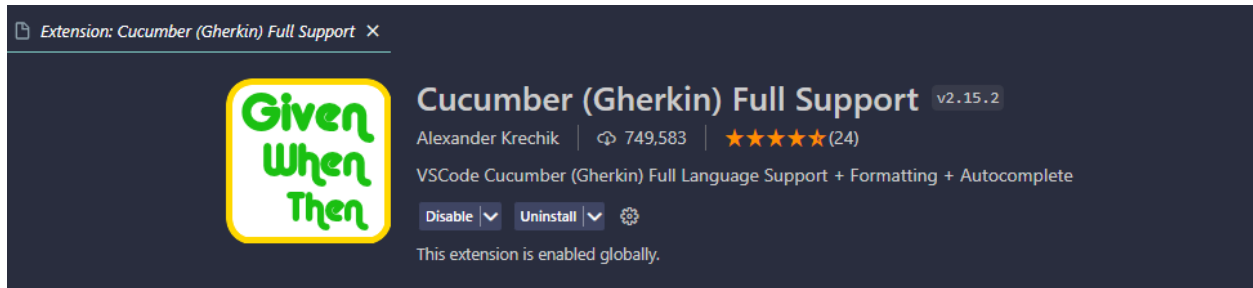
```
"cypress-cucumber-preprocessor": {
  "stepDefinitions": [
    "cypress/e2e/**/[filepath]/**/*.{js,ts}",
    "cypress/e2e/**/[filepath].{js,ts}"
  ],
  "filterSpecs": true,
  "omitFiltered": true
}
```

Your package.json should now look like this:



```
package.json X
package.json > ...
1  {
2    "devDependencies": {
3      "cypress": "^13.5.0",
4      "typescript": "^5.2.2"
5    },
6    "dependencies": {
7      "@badeball/cypress-cucumber-preprocessor": "^19.1.0",
8      "@bahmutov/cypress-esbuild-preprocessor": "^2.2.0",
9      "esbuild": "^0.19.5"
10   },
11   "cypress-cucumber-preprocessor": {
12     "stepDefinitions": [
13       "cypress/e2e/**/[filepath]/**/*.{js,ts}",
14       "cypress/e2e/**/[filepath].{js,ts}"
15     ],
16     "filterSpecs": true,
17     "omitFiltered": true
18   }
19 }
20
```

Installing a cucumber support plugin in VS Code will come in handy as it'll make you write the features and step definitions files more effortlessly. I'm using the one shown in the screenshot below:



Write scripts:

Within the 'e2e' directory, establish a new feature file (e.g., 'google.feature'). This should be accompanied by a corresponding folder named 'google' containing a TypeScript file named "google.ts". Both the feature file and the folder should be located within the 'e2e' directory.