# Cypress Automation Project: TutorialsNinja - Register, Login, Logout

# **Objective**

This project automates the user flow for Register, Login, and Logout functionality on the TutorialsNinja website using Cypress.

# **Tools and Technologies Used**

- Programming Language: JavaScript

- Automation Framework: Cypress

- Browser: Chrome or Electron (Default Browser)

- IDE/Text Editor: Visual Studio Code (VSCode)

- Version Control: GitHub

## **Prerequisites**

To successfully run this project, ensure you have the following:

- Basic knowledge of JavaScript.
- Familiarity with Cypress and basic web elements such as id, class, and name.
- Installed Node.js and Visual Studio Code.

# **Setup Instructions**

### **Part 1: Environment Setup**

- 1. Install VSCode:
- Download and install VSCode from its official website.
- 2. Create a New Folder for the Project:
  - Open VSCode and create a new folder for the Cypress automation project.
- 3. Install Cypress:
- Open the terminal in VSCode and run the following commands to initialize the project and install Cypress:

```
npm init -y
npm install cypress --save-dev
```

- Open Cypress once installed:

```
npx cypress open
```

## Part 2: Writing the Script

- 1. Create a New Folder Structure:
- Create folders to organize the Page Object Model (POM):
- cypress/integration/PageTests: For test cases.
- cypress/support/PageClasses: For commands and functions.
- cypress/pages/: For Page Object files.
- 2. Install Required Dependencies:
  - If needed, install additional Cypress plugins or dependencies via npm.

## **Part 3: Assignment Tasks Automation**

- 1. Register New Account:
- Automate the registration process by filling out required fields (First Name, Last Name, Email, etc.) and submitting the form.
- 2. Login and Logout:
  - Log in using the test credentials and automate the logout process.
  - Take screenshots where required and use assertions for validation.

#### **Part 4: Submission Guidelines**

- 1. Push Code to GitHub:
  - After completing the script, initialize a Git repository and push the project to GitHub:

```
git init git add .
git commit -m 'Initial commit for Cypress automation project'
git remote add origin https://github.com/Kunal-30/Global-Code-Innovators_083.git git push -u origin main
```

2. Submission:

- Ensure the code is properly commented, explaining each section and logic.
- Push the final code to GitHub and submit the repository link on the LMS.

## **Project Structure**

#### **Test Data**

Use the following test data:

- Email: tagdekunal2000@gmail.com

- Password: Lazy123

# **Cypress Commands Used**

- cy.get(): To locate web elements.
- cy.type(): To enter data into input fields.
- cy.click(): To simulate button clicks.
- cy.contains(): To locate text or buttons by their content.
- cy.url(): To assert URL changes.

## **Key Features**

- Page Object Model (POM): The project is structured using POM for maintainability.
- Assertions: Use of Cypress assertions for validating success of registration, login, and logout actions.
- Screenshots: Automatically take screenshots after each major action.

## **How to Run the Tests**

```
    Clone the repository:
        "bash
        git clone <repository-url>
        cd <project-folder>
        ""

    Install project dependencies:
        "bash
        npm install
        ""

    Run Cypress tests:
        "bash
```

npx cypress open

- This will open the Cypress Test Runner. You can then select the test files to run.

## **Evaluation Criteria**

- Correctness: The script should successfully automate the register, login, and logout process.
- Code Quality: Proper use of functions, error handling, and code readability.
- Documentation: Proper comments and explanation for each section of the script.

## Conclusion

This project demonstrates automation of the TutorialsNinja website using Cypress, following best practices like POM, assertions, and GitHub integration for code versioning.