**System Requirements - Website https://the-internet.herokuapp.com/ **

General Description:

The system is a web application that provides various functionalities for testing and validating the behavior of different elements in the interface. The main objective is to ensure the correct execution of tests in a controlled environment.

Module 1: "Add/Remove Elements" Functionality

Requirements:
1. The web application must contain a section identified as "Add/Remove Elements."
2. Clicking the "Add Element" button should dynamically add an element to the page.
3. The newly added element should be removable by clicking the "Delete" button.
4. The page should remain stable after adding and removing elements.

Module 2: "Basic Authentication" Functionality - Postponed for now

Requirements:
1. The web application must contain a section identified as "Basic Authentication."
2. Accessing this section should display a basic authentication browser dialog.
3. It should be possible to enter valid credentials to access protected content.
4. Verify that authentication fails with incorrect credentials.
5. The page should remain in a stable state after authentication.

Module 3: "Broken Images" Functionality

Requirements:
1. The web application must contain a section identified as "Broken Images."
2. Upon entering this section, images should be displayed, some of which should be modified to simulate broken images.
3. The page should handle the presence of broken images appropriately, using placeholders or alternative text.
4. The page should remain stable after introducing broken images.

Module 4: "Challenging DOM Elements" Functionality

Requirements:
1. The web application must contain a section identified as "Challenging DOM Elements."
2. This section should include challenging elements such as buttons and checkboxes.
3. Challenging elements should respond correctly to user interactions.
4. The page should contain dynamic content that updates appropriately.

**Module 5: "Checkboxes" Functionality **

Requirements:
1. The web application must contain a section identified as "Checkboxes."

2. Clicking the first checkbox should mark it correctly.
3. Clicking the second checkbox should unmark it correctly.
4. The page should remain in a stable state after marking and unmarking checkboxes.

**Module 6: "Context Menu" Functionality **

Requirements:
1. The web application must contain a section identified as "Context Menu."
2. Right-clicking in the designated area for the context menu should activate and display a context menu.
3. The page should remain in a stable state after interacting with the context menu.

**Module 7: "Digest Authentication" Functionality - *Postponed for now* **

Requirements:
1. The web application must contain a section identified as "Digest Authentication."
2. Accessing this section should display a browser digest authentication dialog.
3. Valid credentials should be allowed to authenticate the user.
4. Verify that authentication fails with incorrect credentials.
5. The page should remain in a stable state after authentication.

**Module 8: "Disappearing Elements" Functionality **

Requirements:
1. The web application must contain a section identified as "Disappearing Elements."
2. The section should initially contain visible elements.
3. Clicking the "Add Element" button should dynamically add an additional element.
4. Upon refreshing the page, the dynamically added element should not be visible.
5. The page should remain in a stable state after adding and disappearing elements.

**Module 9: "Disappearing Elements" Functionality **

Requirements:
1. The web application must contain a section identified as "Disappearing Elements."
2. The section should initially contain visible elements.
3. Clicking the "Add Element" button should dynamically add an additional element.
4. Upon refreshing the page, the dynamically added element should not be visible.
5. The page should remain in a stable state after adding and disappearing elements.