

Testing Plan:

Project: Ultimate QA Automation Website

1. Risk-Based Testing:

Risks:

- Compatibility issues with different browsers and devices.
- Performance issues under heavy user load.
- Functional inconsistencies across different modules.
- Usability issues affecting user experience.
- Security vulnerabilities, such as XSS or SQL injection. Authentication and authorization

Mitigation:

- Conduct cross-browser and cross-device testing.
- Perform load testing to assess performance scalability.
- Develop comprehensive test cases covering all functional requirements.
- Perform usability testing with real users to identify any issues.

2. Testing Strategy:

Approach:

- Utilize a combination of manual and automated testing techniques.
- Prioritize test cases based on criticality and frequency of use.
- Use test case design techniques to create a complete set of test cases.
- Use exploratory testing to uncover unforeseen issues.
- Maintain traceability between requirements and test cases.

Tools:

- Cypress for automated functional testing.

- Screenshot and video record
- Mocha report

3. Testing Scenarios:

Functional Testing:

- Test navigation across different pages.
- Validate forms for data input and submission.
- Verify the link URL of the page

Security Testing:

- Cross-Site Scripting (XSS)
- SQL Injection
- Authentication - Authorization

Performance Testing:

- Assess website response time under normal load.
- Conduct load testing to simulate concurrent user activity.
- Measure server response time under peak load conditions.

Usability Testing:

- Evaluate website layout and design for consistency.
- Test responsiveness across different screen sizes.
- Validate user workflows for intuitiveness.
- Collect feedback from real users to identify usability issues.

4. Resources:

Team:

- Test Engineers: Thao Nguyen
- Developers: None
- Project Manager: None

Tools and Device

Framework: Cypress

Scope:

- Browser: Chrome, Firefox
- Desktop: 13inch
- Mobile: iPhone 12 Promax, 14
- Tablet: iPad Air
- OS: MacOS

5. Timelines:

Test Preparation:

- Define test cases: [19-03-2024 -21-03-2024]
- Set up testing environment:[19-03-2024 -21-03-2024]
- Develop automated test scripts: [19-03-2024 -21-03-2024]

Test Execution:

- Functional testing: [19-03-2024 -20-03-2024]
- Usability testing: [19-03-2024 -20-03-2024]

Reporting and Bug Fixing:

- Document test results: [20-03-2024]

Result and Report:

- **Scenario:**

Manual Testing

ID	Description	Expected	Status
01	Verify the UI of the automation page	All the text should be displayed correctly, the same as the requirement	Passed

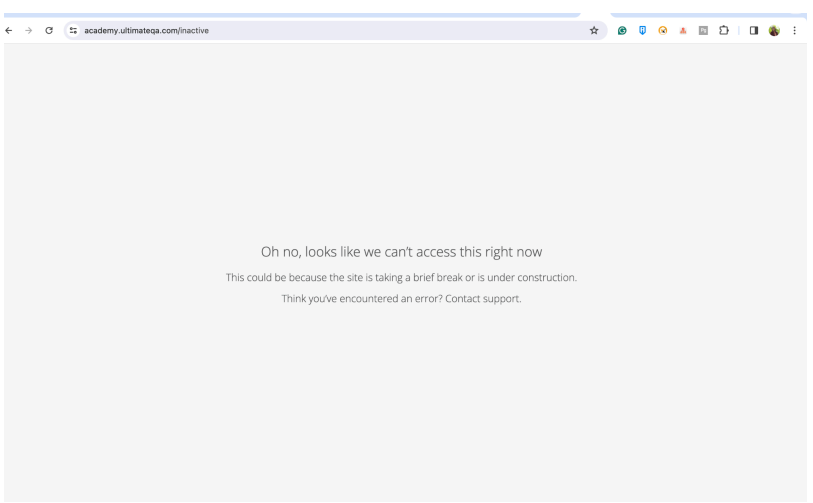
02	Verify the logo of the Automation page when clicking on	The logo will be redirected to the Home page	Passed
03	Verify the URL of the list of link text in the middle page	The link must be redirected and the URL must be the same as the specification	Passed
04	Verify the URL of the footer	The link must be redirected and the URL must be the same as the specification	Passed
05	Verify the dropdown list of Learning on the Menu Bar	The dropdown list will have to be opened and redirected to each page whose URL must match the specification	Failed The "Selenium Java" Link redirects to the inactive URL
06	Verify the page on the mobile view	The page will show the correct responsive on the Mobile	Failed: with Menu Bar: The learning dropdown doesn't show the list of options
07	Verify the Social media section	The page URL should show the correct URL address as specified	Failed: The URL of YouTube is incorrect and shows API code: 404
08	Verify the Automation Page on the Tablet	Layout should display well on tablets	Failed: Footer has a lot of white space

Automation Testing:

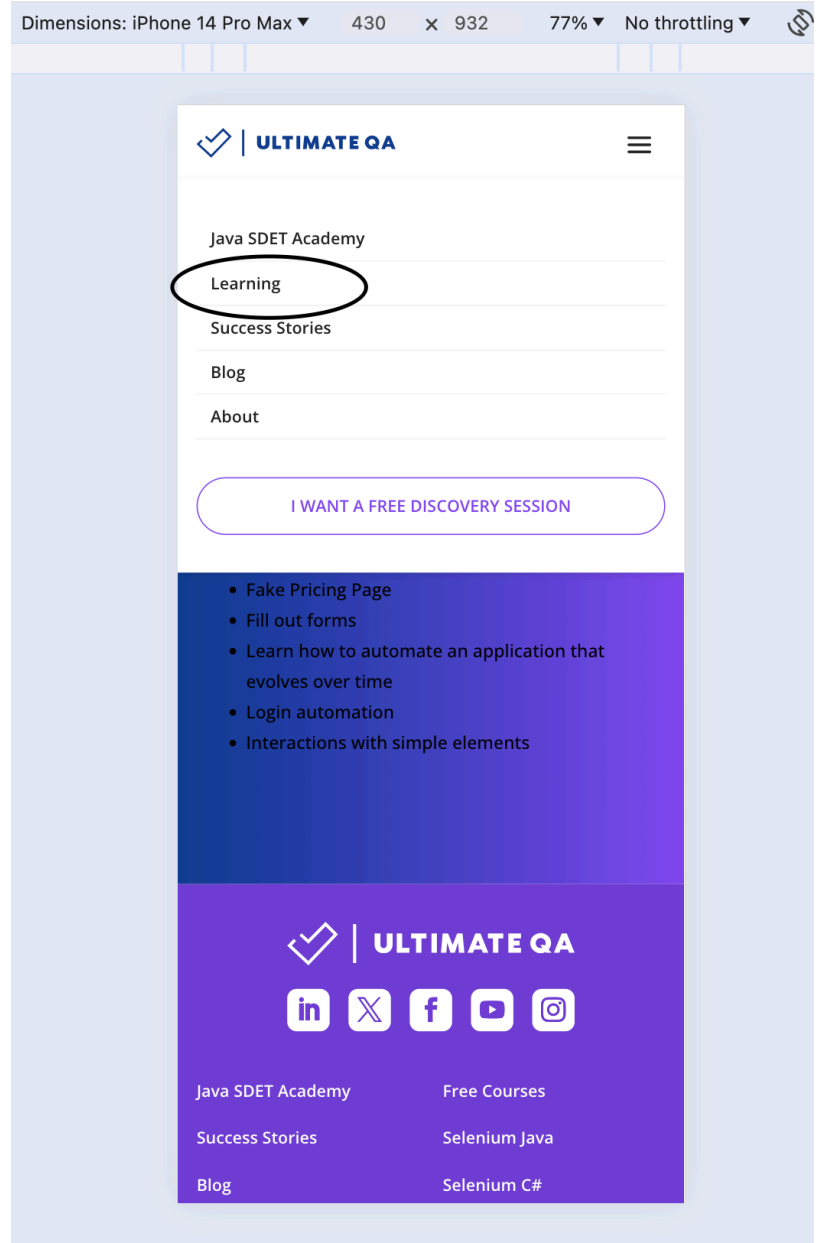
ID	Description	Expected	Status
01	Verify the UI of the automation page	All the texts should be displayed correctly, the same as the requirement	Passed

02	Verify the URL of the list of link text in the middle page	The link must be redirected and the URL must be the same as the specification	Passed
03	Verify the URL of the footer	The link must be redirected and the URL must be the same as the specification	Passed
04	Verify the dropdown list of Learning on the Menu Bar	The dropdown list will have to be opened and redirected to each page whose URL must match the specification	Failed The "Selenium Java" Link redirects to the inactive URL with API code: 402

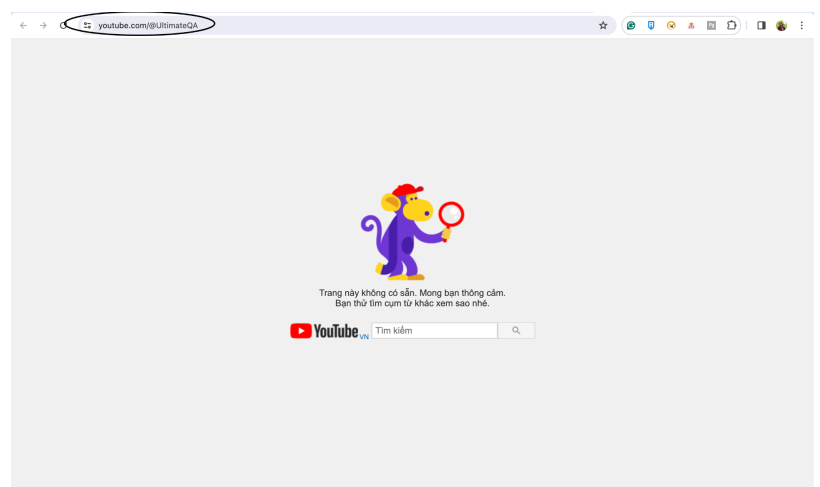
Bugs Attachment:

Description	Attachment
Verify the dropdown list of Learning on the Menu Bar	

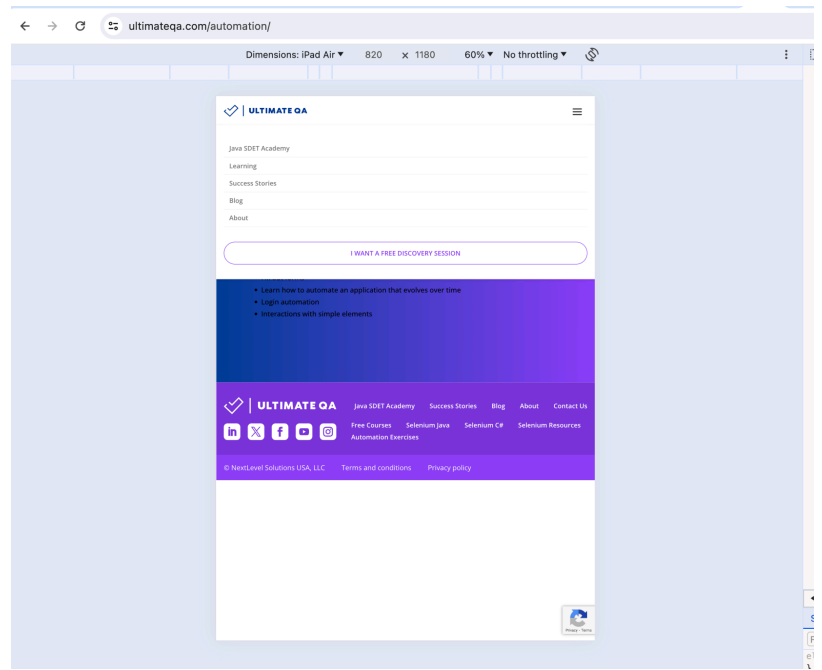
Verify the page on the mobile view



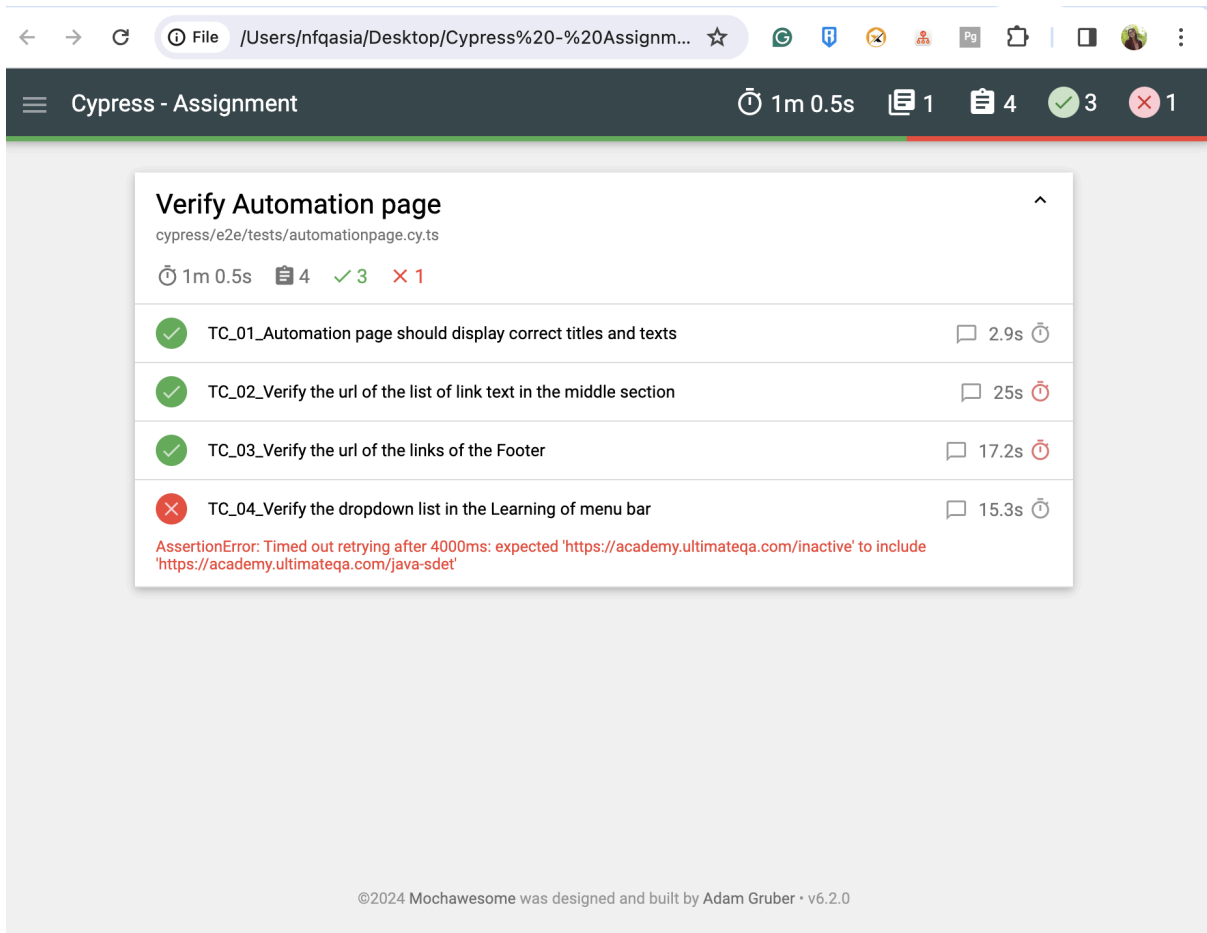
Verify the Social media section



Verify the Automation Page on the Tablet



Report Mocha with Cypress:



Screenshot:

