

Testing approach for the project

As no specification has been provided, the below test charter was prepared using heuristics. An exploratory testing session was carried out adhering to the test charter to find out any possible bugs before automating the tests. I have only focused on the functional tests.

Functional testing

Navigation

- With the user logged in
- Without the user logged in
- Sorting records by column names on tables (e.g. by Rank, Vote count and Model etc...)
- General navigation between pages
- Navigate using links, buttons and images
- Drilling down from car brand to models
- Any javascript errors in the browser console while navigating between pages
- Pagination
- Broken links
- Tab indexing
- Logout

User Registration Process

1. Input field validation
 - a. Max length
 - b. Special characters
 - c. Numbers (- & +)
 - d. Unicode characters
 - e. Non-ascii letters
 - f. Typing & pasting text
 - g. Spaces, non-breaking spaces, tabs and line-breaks etc....
 - h. Malicious content validation (e.g. Javascript or SQL statements)
2. Attempt to save leaving mandatory fields blank
3. Attempt to register using the same login name multiple times
4. Attempting to register by providing passwords/Confirm Password that does not match
5. Attempting to register by providing a password that does not meet the complexity requirements
6. Dirty form validation / Navigating away while form changes have not been saved

User login process

1. Login after user registration
2. Login after resetting the password

3. Attempt to reset the password using a password that does not meet password complexity requirements
4. Attempt to log in using an old password / not the current password
5. Attempt to log in using an invalid username/password combination
6. Repetitively attempt to log in using an incorrect password to see if the account gets locked
7. Leave the logged-in session open without logging out to see if the session gets terminated from the server or the front end

Update user profile

1. Input field validation for the First name, Last name, Gender, Age, Address, and Phone fields using the same list of techniques mentioned in the user registration process
2. Save without making changes
3. Dirty form validation / Navigating away while form changes have not been saved

Buggy cars rating process

1. Voting without a comment
2. Voting with a comment
3. Vote count, comment, date time, and author details getting updated after voting
4. Attempt to vote multiple times for the same car model

Non functional testing (Out of scope)

1. Security
2. Scalability / performance
3. Accessibility
4. Cross browser compatibility
5. Responsive design / devices testing