Test Strategy for Buggy

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# Test Strategy for Buggy Testing:

URL <https://buggy.justtestit.org> has been provided with no documentation. So, exploratory testing is the most possible way to test the application.

## Purpose of this application:

Popular car makers and models are available on the website where any logged in user can vote. Homepage features Dashboard function to display the most popular make and model along with overall rating for all registered models.

# Functions/Features available:

1. Login
2. Register
3. In Dashboard
   1. Popular Make link
   2. Popular Model link
   3. Overall rating link

# Details on available functions:

## Login:

1. Username/Email address and Password fields need to be filled in.
2. Logged In state gives the user an option to vote for their favorite make and model.
3. Only logged in user can vote, but can see the voting results while logged out.

## Register:

URL: <https://buggy.justtestit.org/register>

1. Username, Firstname, Lastname, Password, Confirm Password – fields and 2 buttons Register and Cancel
2. Only successfully registered users will be able login and vote.

## Dashboard:

1. Popular Make – Redirects to Details along with list of all available models
2. Popular Model – Redirects to Details page along with list of voters, date, time and comments
3. Overall Rating – Redirects to list of all available models

## Vote:

1. Comment field with Vote button
2. 1 vote per model and disables after voting.

# Types of Testing:

1. Exploratory Testing
2. Functional Automation using Cucumber, Selenium, Java and POM.

# In scope for testing:

User story:

Page registration

As a visitor

I want to be able to register in the website So that I can vote for a sport car

## Acceptance Criteria:

1. User password needs to be set with minimum 8 characters (1 Uppercase + 1 lowercase + 1 special character)
2. If the registration is successful a message should be displayed
3. The application should validate a visitor can only register once.

# Test Cases:

1. Unsuccessful registration using an existing username
2. Unsuccessful registration using Password of length less than 8 characters
3. Unsuccessful registration using Password of correct length with all Uppercase characters
4. Unsuccessful registration using Password of correct length with all special character
5. Unsuccessful registration using Password of correct length with all Lowercase characters
6. Unsuccessful registration using Password of correct length with uppercase character and special character combination
7. Unsuccessful registration using Password of correct length with special characters and lowercase combination
8. Unsuccessful registration using Password of correct length with uppercase characters and lowercase characters combination
9. Successful registration using Password of correct length with 1 or more uppercase character, 1 or more special character and 1 or more lowercase character

### Expected Results:

For unsuccessful registration – Right message with reason

Successful registration – Registration is success!

# Observations for Exploratory Testing:

1. Homepage return url not working from Popular Make page
2. <https://buggy.justtestit.org/make/c4u1mqnarscc72is00e0> - Popular Make page URL should be search engine friendly
3. Popular Make page – Model and Rank header links not working. Guessing sorting function not working
4. Popular Make Page – Votes link randomly sorts the order.
5. Model details page – No pagination for Comments (performance issue)
6. Model page URL - <https://buggy.justtestit.org/model/c4u1mqnarscc72is00e0%7Cc4u1mqnarscc72is00kg> is not search engine friendly
7. Social media links are not linked to company page
8. Profile page – name fields does not have maximum length.
9. Password change functionality displays funky message on error. “

InvalidParameterException: 1 validation error detected: Value at 'proposedPassword' failed to satisfy constraint: Member must satisfy regular expression pattern: ^[\S]+.\*[\S]+$”.

1. Acceptance criteria says 1 uppercase, 1 lowercase and 1 special character with a minimum length of 8 characters, but app expects numerals as part of password validation.

# What works!

1. Login functionality works well
2. Registration works well
3. Voting works well
4. Counts of voting works well

# Out of scope for Testing:

1. Performance Testing
2. API testing