***Author:***

Priya Narayanan ([Priya.narayanan@integrationqa.com](mailto:Priya.narayanan@integrationqa.com))

IntegrationQA

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***Overview:***

Buggy cars are a website (<https://buggy.justtestit.org/>) that allows public to view the popular model, make of many famous models. It also provides rating of cars based on public opinion / vote.

The website offers user management where in a user can register on the website and vote for their favorite car.

***High level test approach:***

Given there are no requirements / use cases, the best approach towards testing of this site is exploratory testing.

For that, manual testing to check the basic functionalities will achieve maximum test coverage. Once all the pages are verified manually and basic use cases are validated, some of the core functionalities can be automated.

Please refer to the spreadsheet for the list of test cases and word document that contains evidence for the same.

***Test Execution:***

|  |  |  |  |
| --- | --- | --- | --- |
| #of Test Cases | #Pass | #Fail | #Defects |
| 16 | 10 | 6 | 6 |

***Defects (Currently logged in as word document)***

|  |  |  |
| --- | --- | --- |
| Sl.No | Description | Comments |
|  | Popular Make - Broken link - return to home page | Refer to word doc - BUGGY-CARS-TC005 |
|  | Overall rating - Lancia Ypsilon image is not available, navigation to a page not working - when a page number is inserted into the box and hit enter does not take the user directly to the page. | Refer to word doc - BUGGY-CARS-TC007 |
|  | User Profile Edit – Address -  Unknown error received, removing the lengthy address and click save also did not save the profile. | Refer to word doc - BUGGY-CARS-TC010 |
|  | Sorting - Sorting of votes is not displayed properly. | Refer to word doc - BUGGY-CARS-TC011 |
|  | Overall rating - Lancia  Fail - <https://buggy.justtestit.org/model/>  c0bm09jgagshpkqbsv00%7Cc0bm09jgagshpkqbsv3g | Refer to word doc - BUGGY-CARS-TC013 |
|  | Overall rating – Lamborghini - Broken link - return to home page | Refer to word doc - BUGGY-CARS-TC014 |

***Automated scenarios:***

I have used C# for UI automation using BDD methodology (specflow).

README file contains all the relevant instructions for executing the scripts.

Packages directory contains the list of Nuget packages that I have used for this framework.

This is only high level and can be improved to perform even better.

The framework records evidence under Test Results directory for a given date (screenshots of all steps)

***Solution Overview:***

* Feature files (BDD) are available in Feature folder – these are equivalent to high level plain English scenarios that translate into tests.
* Step Definitions – contains all the implementations at code level for features defined.
* Page Objects – contains all the web elements for a given page and has actions on web element defined.
* Support – contains web browser / driver implementation and basic set up (for scenarios). Also has support functions for save screenshot after each test step.
* Test Results – contains evidence of each run organized by current date. Files are saved with timestamp.

***Functionalities automated:***

* Login
* Register
* Vote
* Popular Make
* Popular Model
* Overall Rating
* Profile edits & save