**Test Approach for the Buggy Car Rating Application**

In the test approach section we usually define the below:

* Test levels
* Test types
* Roles and responsibilities
* Environment requirements

**Test Levels**: Looking at the web application, I would recommend doing Unit test, System Test, Integration Testing and acceptance testing.

**Test Types:** Based on the web application, I would recommend doing functional testing, SIT, UAT, Regression testing, Performance testing, compatibility testing(in case the application needs to be used on mobile as well)

**Roles and responsibilities:** This section would include the responsibilities of the Project manager, Project lead, individual testers.

For ex: the responsibilities of tester would include

* Studying the requirement document
* Preparing the test plan
* Design the test approach
* Preparing the test cases and scenarios
* Execution of test cases and defect management
* Getting sign off at the end of project
* Submitting the test summary report

Also, working out on finding the candidates for automation and automating them.

**Environment requirements:** This section would include list of all available requirements(like test, production, pre-prod etc) and on what all environments would the testing be carried out. For ex: Manual testing to be carried on test environment and performance testing to be carried out on pre-prod.

**List of critical defects found in the application**

1. The logo of the application is “Buggy Rating” on the home page and it should be “Buggy Cars Rating”
2. On clicking “Alfa Romeo” under “popular Make” section, if you click on the “Buggy Rating” logo it does not take the user back to home page
3. The textbox on the login page where user enters username , should ideally be something like “username” and not login as there is a button named Login already and it can be confusing.

**Short description on the automation framework and automation of application**

Below functionalities have been automated :

1. Launch application
2. Register to the application
3. Login into the application
4. Add a vote and verify that the vote count has increased
5. Logout from the application

The automation framework is made in UFT with VB script as the scripting language. The automation framework consists of the following folders:

**Library:** This folder contains the function libraries that needs to be associated with the test. In this case, they are already associated with the test

**Scripts:** This folder contains the automated test script

**TestData:** This folder contains any test data that may be needed by the test.

**Test Results:** This folder contains “TestSuiteExecutionSummary” report and “TestExectionReport” in html format. Also it has a subfolder named “ErrorSnapshot” which is created at run time. Also the “TestResults” folder is created at run time and the test reports are created at the end of test execution.

Graphical user interface, text, application, email

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Graphical user interface, application

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**Controller file:** In this file you specify the list of scenarios that you want to include as part of the execution. Also in this file you can specify on which environment , browser you would like to execute the test, who needs to receive the email with the test report at the end of test execution and in what format the test report needs to be attached in the email.

Graphical user interface, application, Word

Description automatically generated

**Driver Script:** This VBS file contains the whole logic of launching UFT, launching testname mentioned in the controller file and executing it and then creating the test results folder and placing the test reports in it. User needs to double click on the Driver script VBS file to start the execution.

**Zip code:** This file contains a function which will zip the test results folder at the end of execution and place it in the same location as the other folders .

**AutoRunDriverScript:** In the VBS file you can specify the date and time at which you would like to start the execution. Once that date and time is reached , execution will start automatically. This is another way other than the Driver script file to start the execution.

Graphical user interface

Description automatically generated with medium confidence

**Guidelines for executing the test**

**Pre-Requisite: UFT needs to be installed on the machine.**

There are two ways to execute the test:

1. Download the whole folder to a location on your computer and just double click the “DriverScript.vbs” file. This process will launch the UFT , then the test and run it.
2. Open UFT manually and open the test and run the test from UFT.

**Please note**: In case UFT is not installed on your machine, then I would really appreciate if you can please open the “DriverScript.vbs” file in a notepad++ application and have a read through vb script just to get an understanding of the code. Also you can go to the “Scripts” folder and open the test and open the individual actions folder under it and inside those folders there is “Script.mts” file which can again be opened with “Notepad++” application. There will be a separate “Script.mts” file for each action.

Graphical user interface, application

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