# Test Process and Approach

**Project Overview**

Buggy Cars Rating website is designed to display rating to various models of cars by different manufacturers. End user, when logged in, can vote to the model of their choice which increments voting count to the respective model. Based on Voting count, Rank of models change appropriately

**Test Approach:**

**High Level Test Process:**

* Expected behaviour of the application is categorized into features and specifications
* These specifications are transformed to testable scenarios. Any ambiguity or questions related to specifications are clarified while writing the scenarios
* The scenarios are developed in to automated test scenarios using cucumber framework

**Test types in scope:**

**Functional Testing:**

Functional testing is performed on Application Under Test (AUT) to test user interface, functionality of each feature on the website and generic website functionalities.

Application Under Test (AUT) - <https://buggy.justtestit.org/> will be tested based on following assumptions:

* Website is designed for displaying buggy cars rating to the end user [Based on the name of the page]
* All Cars Make and Model pages present car Image and specification
* All cars specification section presents correct data to the user
* As and when Voting is being done, voting count is incremented for the right model/make
* Rank presented is based on the number of Votes against each Model/Make
* Register form, Login/Logout, profile page, sorting order on the fields when pages are opened, other buttons on pages, Navigation among pages follow generic website principles

**Automation Testing:**

The regression test scenarios are developed in to automated test scenarios which can be run on need basis. Among the scenarios identified for manual testing, following scenarios were identified as critical and automated

* Verify Successful Registration
* Verify Unsuccessful Registration
* Verify Invalid Login
* Verify Valid Login
* Verify Specification Details Using Popular Make
* Verify Specification Details Using Popular Model
* Verify Specification Details Using Overall Rating

**Automation test suite design**:

*Automation considerations*:

A successful registration requires uniqueness hence unique number generated using Epoch second appending to the given username details.

**Exploratory testing:**

At the completion of functional testing, exploratory testing will be conducted to identify additional defects/tasks

**Test types that are applicable to website testing but are not in scope for this project:**

* System Integration Testing
* Security testing
* User Acceptance
* Performance testing