A drawing of a car

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Test Approach

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# Document Control

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# Version History

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# Introduction

This document is intended to provide an overview of the testing activities that will be performed to verify the functional behaviour of the Buggy Ratings Car Web site. It describes the test approach, test environment and test tools. This document will also describe the test scope and risks and assumptions.

# Test Approach

The diagram below provides an overview of the planned test approach for Buggy Ratings Car:

PROD   
Go Live

Acceptance Testing

UAT

## Acceptance Testing

### Objective

This test phase will verify the functionality of Buggy Cars Rating using the TEST environment. To achieve this, the testing team will write both automated and manual test scripts to cover the functionality of Buggy Cars Rating. Regression testing will be done after each release.

### Scope

#### Automated Testing

Automated Testing will cover the following scope:

* Login
* Registration
* List Top 5 Models of the Popular Make
* List Popular Model
* List Overall Top Ranked Cars
* Vote Car

#### Manual Testing

Manual Testing will cover the following scope:

* Exploratory Testing

### Test Prerequisites

This section will describe the list of items that are needed to be in place so testing can commence

|  |  |  |
| --- | --- | --- |
| **Requirements** | **Description** | **Owner** |
| High Quality Code | No High Severity issues from Unit Testing | BCR Dev Team |
| Test Scripts | These will be created for the scope mentioned above | BCR Automated Test Team |
| Test Charters | These will be used for exploratory testing | BCR Manual Test Team |

### Environments

This section will describe the environments to be used for this test phase.

|  |  |  |
| --- | --- | --- |
| **Environment** | **Description** | **Owner** |
| TEST | TEST Environment will be set up for Buggy Cars Rating and Acceptance Testing will be executed in this environment | BCR Dev Team |

### Resources

This section will describe the resources and their activities.

|  |  |
| --- | --- |
| **Resources** | **Activity** |
| BCR Automated Test Team | They will be responsible in:   * Creation of automated test scripts * Maintenance of automated test scripts * Reporting test results * Defect management |
| BCR Manual Test Team | They will be responsible in:   * Creation of test charters * Maintenance of test charters * Reporting test results * Defect management |
| BCR Dev Team | They will be responsible in:   * Preparation of TEST environment for Acceptance Testing * Resolving issues identified and shared during Acceptance Testing |

## UAT

### Objective

The objective of UAT is to validate that the business users can use Buggy Cars Rating in line with their SOPs. Details to follow.

# Defect Management

This section will describe how defects will be raised and how they will be managed. For all defects, the Defect Report document will be used.

## Defect Process

Summarised below is a high-level overview of the assumed test defects lifecycle:

Diagram

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At the start of the process the system behaviour is identified as not adhering to expected outcomes.

If the defect does not already exist, then it is logged as a new item with a status of Open and assigned to BCR Dev Team.

If the defect already exists, then the existing defect is reviewed to ensure the conditions are the same. If the conditions are the same the defect is not logged.

The BCR Test Team will record the details of the defect on the Defect Report document. The following details are included:

* Release/Build # where defect was found
* Title of the Problem
* Description of the Problem
  + Steps to Replicate
  + Expected and Actual Results
  + Screenshots
* Current Environment where defect was found
* Defect Type
* Priority of the defect
* Severity of the defect
* Status of the defect

# Testing Tools

This section will describe the tools that are required to execute the automated test as well as any pre-requisites or setup information for the test.

## Pre-requisites

The following should be installed:

* Visual Studio 2019

The following extension should be installed in Visual Studio 2019:

* SpecFlow for Visual Studio 2019

Lastly, ensure that the latest version of Chrome is installed.

## Setup

Here are the steps to run the automated tests:

1. Start Visual Studio 2019
2. Clone repository: <https://github.com/israelv73/BuggyCarsRating.git>
3. Once cloned, Build the solution
4. Run the tests from Test Explorer  
     
   Graphical user interface, text, application, chat or text message

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