# Test Strategy Document – Buggy Cars Racing Test Project

## Objective

Develop a test approach, document most critical bugs and automate a basic solution.

Project Development Duration: 3 Days

## Scope

* Application Under Test: <https://buggy.justtestit.org>
* User story Testing for Page Registration
* Automate scenarios in UI + API using BDD approach

1. Valid Registration check (UI + API)
2. Registration unique check – User can register only once (UI + API)
3. Password Check (API)
4. Registered User can vote for a sport car (UI)

## Out of Scope

* Non-Functional testing. E.g., Performance or Accessibility Testing
* Cross Browser Testing
* Requirement not mentioned in the acceptance criteria
* Further support of automated tests (in case of future changes)

## Entry Criteria

* Access to application is available
* User story in scope is deployed

## Exit Criteria

* Test approach document should be ready
* In scope automated document should be completed
* Bug Reporting/ list of bugs to be documented

## Tools Used and Resources

* IDE- Visual Studio 2019 (minimum community version)
* Programming language- C#
* BDD Framework – Spec flow
* UI Automation Tool – Selenium
* API – Rest Sharp
* Repo: <https://github.com/GarimaUppadhyay/LTAAssignmentAutoTests>
* Bug Report: <https://github.com/GarimaUppadhyay/LTAAssignmentAutoTests/blob/main/Bug%20Report.xlsx>

## Pre- requisite

* Basic knowledge around Git repo (Check-In/Check-out and Cloning the repo)
* Availability of Visual Studio 2019 with .net framework 4.7.2
* Basic .net solution with debugging in VS 2019
* Basic understanding of Spec flow
* Windows 10 or higher machine
* Spec flow extension installed

## Running the Tests

* Clone the repo named “LTAAssignmentAutoTests (<https://github.com/GarimaUppadhyay/LTAAssignmentAutoTests>) ” in VS2019 or using Git command line
* Open the solution and build the solution
* Navigate to View-> Test Explorer, Test Explorer will be open on the left panel
* Right click the top feature project (either UI or API) and click run (or select all the tests and click run)

## Trouble Shooting

1. Solution built successfully and tests are not appearing:  
   **Resolution**: If test cases are not appearing on the Test Explorer window, please uninstall and install MSTest.TestAdapter and MSTest.TestFramework latest version from NuGet package manager.   
   Graphical user interface, text, application, email

   Description automatically generated