TEST PLAN

BUGGY CARS RATING

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Contents

Overview

The goal of this test plan is to verify the functionality, usability, performance, and security of the Buggy Cars Rating website. The site is used to practice identifying defects in a controlled, intentionally buggy environment.

Scope of Testing

The scope of the project includes testing the following features of 'https://buggy.justtestit.org/' website.

Inclusions

- Register
- Login & Logout
- Home Page
- Car List Page
- Car Browsing Page
- Submit Rating
- Comment Section
- UI layout and responsiveness
- Form validations
- Navigation and broken links
- Footer Options

From our understanding, we believe above functional areas need to be Tested.

Exclusions

- All the features except that are mentioned under 'Inclusions'
- Any third-party features or Payment gateways

Type of Tests

The following list indicates the types of tests that will be carried out in the project:

- Smoke Testing
- Sanity Testing
- UI/UX Testing
- Regression Testing
- Retesting
- Functional Testing

Test Environments

- **Browser Support:** Chrome, Firefox, Edge (latest versions)
- **OS:** Windows 10/11 or macOS
- **Tools:** Browser Dev Tools, Snipping Tool, Excel or Google Sheets for test cases
- **Test Data:** Dummy user accounts, comments, and input strings

Test Strategy

As part of Functional Testing, we will follow the below approach for Testing:

Step#1 – Test Scenarios and Test Cases

Creation of Test Scenarios and Test Cases for the different features in scope.

We will apply several Test Designing techniques while creating Test Cases

- Equivalence Class Partition
- Boundary Value Analysis
- Decision Table Testing
- State Transition Testing
- Use Case Testing

We also use our expertise in creating Test Cases by applying the below:

- Error Guessing
- Exploratory Testing

Step#2 – Testing Process

Our Testing process, when we get an Application for Testing:

- Firstly, we will perform Smoke Testing to check whether the different and important functionalities of the application are working.
- We reject the build, if the Smoke Testing fails and will wait for the stable build before performing in depth testing of the application functionalities.
- Once we receive a stable build, which passes Smoke Testing, we perform in depth testing using the Test Cases created.
- Multiple Test Resources will be testing the same Application on Multiple Supported Environments simultaneously.
- We then report the bugs in bug tracking tool and send dev. management the defect found on that day in a status end of the day email.
- We repeat Test Cycles until we get the quality product.

Step#3 – Best Practices

We will follow the below best practices to make our Testing better:

- Context Driven Testing – We will be performing Testing as per the context of the given application.
- Shift Left Testing – We will start testing from the beginning stages of the development itself, instead of waiting for the stable build.
- Exploratory Testing – Using our expertise we will perform Exploratory Testing, apart from the normal execution of the Test cases.
- End to End Flow Testing – We will test the end-to-end scenario which involve multiple functionalities to simulate the end user flows.

Defect Reporting Procedure:

During the test execution –

- Any deviation from expected behavior by the application will be noted. If it can't be reported as a defect, it'd be reported as an observation/issue or posed as a question.
- Any usability issues will also be reported.
- After discovery of a defect, it will be retested to verify reproducibility of the defect. Screenshots with steps to reproduce are documented.
- Every day, at the end of the test execution, defects encountered will be sent along with the observations.

Note:

- Defects will be documented in excel.

Test Deliverables

The following are to be delivered to the client:

Deliverables	Description	Target Completion Date
Test Plan	Details on the scope of the Project, test strategy, test schedule, resource requirements, test deliverables and schedule	4/20/25
Functional Test Cases	Test Cases created for the scope defined	4/30/25
Defect Reports	Detailed description of the defects identified along with screenshots and steps to reproduce on a daily basis.	5/1/25
Summary Reports	Summary Reports – Bugs by Bug#, Bugs by Functional Area and Bugs by Priority	5/6/25

Roles and Responsibilities

The following are the list of risks possible and the ways to mitigate them:

Role	Responsibility
Testers	Write test cases, execute tests, report bugs, prepare reports
Test Lead (if applicable)	Review cases, monitor execution, ensure coverage
Stakeholders	Review test results, provide feedback

Test Schedule

Following is the test schedule planned for the project –

	Task	Time Duration
✦	Creating Test Plan	4/20/25
✦	Test Case Creation	4/22/25 – 4/30/25
✦	Test Case Execution	5/1/25 - 5/4/25
✦	Summary Reports Submission	5/6/25

Entry and Exit Criteria

The below are the entry and exit criteria for every phase of Software Testing Life Cycle:

Requirement Analysis

Entry Criteria:

- Requirements or application under test (AUT) is accessible.
- Stakeholders have provided functional expectations or goals.
- QA team is familiar with the scope of the Buggy Cars Rating website.

Exit Criteria:

- List of Requirements are explored and understood by the Testing team

Test Planning

Entry Criteria:

- Requirements are clear and finalized.
- Scope and objectives of testing are understood.
- Risks and constraints are identified.

Exit Criteria:

- Test Plan document (includes Test Strategy) is signed-off by the Client
- Roles and responsibilities of testers are defined.
- Tools (if any) and environments are chosen (e.g., browser types).

Test Designing

Entry Criteria:

- Test plan is approved.
- Requirements are stable and well-understood.
- Test data requirements are identified.

Exit Criteria:

- Test cases and test scenarios are written and peer-reviewed.

- Test cases are traceable to requirements (via RTM if used).
- Test data is created and ready.
- Test cases are documented in a test case repository (e.g., Excel, Google Sheet).

Test Execution

Entry Criteria:

- Test cases and data are ready and reviewed.
- The Buggy Cars Rating website is accessible and testable.
- Test environment (browsers, OS) is set up.
- All blockers are resolved before beginning execution.

Exit Criteria:

- All test cases are executed.
- All bugs are logged with steps to reproduce, severity, and screenshots.
- Re-testing and regression testing are performed as needed.
- A test execution report is prepared and shared.

Test Closure

Entry Criteria:

- Test execution is complete.
- All critical bugs have been resolved or documented.
- Final test summary report is prepared.

Exit Criteria:

- Test Summary Report is shared with relevant stakeholders.
- Lessons learned and best practices are documented.
- Test metrics (e.g., pass/fail rate, bug counts) are finalized.
- Test deliverables are archived.
- Formal sign-off is received (if applicable).

Suspension and Resumption Criteria

- Based on the Client decision, we will suspend and resume the Project.
- We will ramp up and ramp down the resources as per Client needs.

Risks and Mitigations

The following are the list of risks possible and the ways to mitigate them:

Risk	Mitigation
Incomplete or unclear requirements	Use exploratory testing to uncover gaps; ask clarifying questions; document assumptions.
Limited documentation of expected behavior (no formal specs)	Focus on UI/UX-based testing; treat the site like a real user would.
Environment issues (site not loading or slow response times)	Test during stable periods; report downtime and switch to documentation or planning.

| Time constraints for completing testing | Prioritize critical test cases; use smoke testing to validate core functionality first. |

Tools

The following are the list of Tools we will be using in this Project:

- Excel
- MS Word
- Chrome DevTools
- Snipping Screenshot Tool

Approvals

Team will send different types of documents for Client Approval like below:

- Test Plan
- Test Scenarios
- Test Cases
- Reports

Testing will only continue to the next steps once these approvals are done.