



TEST PLAN

Product Name: Go-cart (Frontend)

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Objective

It talks about Aim of writing test plan

As part of the project, 'Go-cart' asked Harthick to test few functionalities of '<https://demo.Go-cart.com/>' web application.

This document serves as high level test planning document with details on the scope of the project, test strategy, test schedule and resource requirements, test deliverables and schedule.



Scope

Here we mention the features need to be tested and features need not to be tested

The scope of the project includes testing the following features of '<https://demo.Go cart.com/>' web application.

- Register
- Login & Logout
- Forgot Password
- Search
- Product Compare
- Product Display Page
- Add to Cart
- Wish List
- Shopping Cart
- Currencies
- Home Page
- Checkout Page
- My Account Page
- Order History Page
- Downloads Page
- Contact Us Page
- Menu Options
- Footer Options
- Category Pages

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



Test methodology/Testing methods

Based on the type of application we decide what type of testing needs to be done:-

Web application: - Smoke testing, Functional testing, System Testing, Adhoc Testing, Web security testing, compatibility testing, regression testing, exploratory testing, GUI testing, Mutation Testing, User Acceptance testing

Test Approach/Testing Approach

Here we explain how we go and test the application

We have several Approaches such as: -

- i. Writing test Scenarios
- ii. Writing test cases
- iii. Writing test cases & test Scenarios
- iv. Writing the Flow chart



Assumptions

Here while writing the test plan testing team will assume few things

- i. Assumption from resource point of view
- ii. Assumption from technology point of view
- iii. Assumption from Development point of view
- iv. Assumption from knowledge point of view
- v. Assumption from Supporting documents point of view

Risks and Mitigations

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

Risk: Non-Availability of a Resource

Mitigation: Backup Resource Planning

Risk: Build URL is not working

Mitigation: Resources will work on other tasks

Risk: Less time for Testing

Mitigation: Ramp up the resources based on the Client needs dynamically



Roles and Responsibilities

Name	Role	Responsibilities
Person A	Test Manager	Escalations
Person B	Test Lead	<ul style="list-style-type: none">✓ Create the Test Plan and get the client signoffs✓ Interact with the application, create and execute the test cases✓ Report defects✓ Coordinate the test execution. Verify validity of the defects being reported.✓ Submit daily issue updates and summary defect reports to the client.✓ Attend any meeting with client.
Person C	Senior Test Engineer	<ul style="list-style-type: none">✓ Interact with the application✓ Create and Execute the Test cases.✓ Report defects
Person D	Test Engineer	<ul style="list-style-type: none">✓ Interact with the application✓ Execute the Test cases.✓ Report defects



Defect Reporting Procedure/Defect tracking

During the test execution: -

- Any deviation from expected behaviour 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 a excel.
- Test scenarios and Test cases will be documented in an excel document.

Scheduling

In this section we mentioned start date and end date for each and every testing activites

- Understanding requirement – 20/06/2022
- Identify all possible Scenarios- 27/06/2022
- Write the test case – 3/07/2022
- Execute the test case – 16/08/2022



Test Environments/ Test Bed

Test Environment/ Test Bed is an Environment configured for testing where in Test engineer will Test the application by executing the test case

- Windows 10 – Chrome, Firefox and Edge
- Mac OS – Safari Browser
- Android Mobile OS – Chrome
- iPhone Mobile OS – Safari

Entry and Exit Criteria

These are the set of conditions That should meet in order to start a project and end the project Every stage of SDLC has got entry and exit criteria

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

Requirement Analysis: -

Entry Criteria: -

Once the testing team receives the Requirements Documents or details about the Project

Exit Criteria: -

List of Requirements are explored and understood by the Testing team & Doubts are cleared

Test Planning: -

Entry Criteria: -

Testable Requirements derived from the given Requirements Documents or Project details & Doubts are cleared

Exit Criteria: -

Test Plan document (includes Test Strategy) is signed-off by the Client

Test Designing:-

Entry Criteria: -

Test Plan Document is signed-off by the Client

Exit Criteria: -

Test Scenarios and Test Cases Documents are signed-off by the Client

Test Execution

Entry Criteria: -

Test Scenarios and Test Cases Documents are signed-off by the Client & Application is ready for Testing

Exit Criteria: -

Test Case Reports, Defect Reports are ready

Test Closure

Entry Criteria: -

Test Case Reports, Defect Reports are ready

Exit Criteria: -_Test Summary Reports



Test Automation

Here we mentioned about

- 1) Which features need to be automated
- 2) Which automation tool we use on the project

- QTP
- Selenium
- Appium
- Canoo
- Shao

- 3) Which automation Framework we use Hybrid framework
 - Hybrid framework
 - POM (page Object Model)
 - Data driven Framework
 - Cucumber Framework
 - TestNG



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	27/06/2022
Functional Test Cases	Test Cases created for the scope defined	13/07/2022
Defect Reports	Detailed description of the defects identified along with screenshots and steps to reproduce on a daily basis.	10/08/2022
Summary Reports	Summary Reports – Bugs by Bug#, Bugs by Functional Area and Bugs by Priority	20/08/2022

Pricing

NA



Test Strategy

'Harthick' has communicated with 'Go-Cart' and has understood that we need to perform Functional Testing of all the functionalities mentioned in the above Scope section.

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

Step#1 – 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

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

- Error Guessing
- Exploratory Testing
- We prioritise the Test Cases

Step#2 – 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.
- As part of the Testing, we will perform the below types of Testing:
 - Smoke Testing and Sanity Testing
 - Regression Testing and Retesting
 - Usability Testing, Functionality & UI Testing
- We repeat Test Cycles until we get the quality product.

Step#3 – 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.



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.

Tools

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

- XYZ Bug Tracking Tool
- Mind map Tool
- Snipping Screenshot Tool
- Word and Excel documents

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.



Templates

Here we mention all the empty templates which Will be used in future by Test engineer

- 1) Test case Template
- 2) Test case Review template
- 3) Traceability Matrix
- 4) Testcase Execution Report template
- 5) Defect report Template



How does Testplan Document looks like?

Revision History					
Version	Author	Review By	Approved by	Comments	Approve Date

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References:-
CRS (customer Requirement Specification)
SRS (Standard Requirement Specification)
FS(Functional requirement Specification)
Use Case

