Test Plan for Food Delivery Web Application

Overview

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

Scope

Inclusions

- Register
- Login
- Logout
- Forgot Password
- Search
- Add to Cart
- Wish List
- Shopping Cart
- Home Page
- Checkout Page
- My Account Page
- Order History Page
- Contact Us Page
- Menu Options
- Footer Options
- Category Dropdown

Test Environments

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

Exclusions

- All the features except that are mentioned under ‘Inclusions’.
- Any third-party features or Payment gateways.
- Test Automation.

Test Strategy

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

Step # 1 – Create test scenarios and test cases for the different features in scope

- We will apply several Test Design 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 techniques:
    - Error Guessing
    - Exploratory Testing
- We prioritize the Test Cases

Step # 2 – Our Testing process after the Build has been received

- Firstly, we will perform Smoke Testing to ensure that the key functionalities of the application are working.
- If the Smoke Testing fails, we will reject the build and wait for a stable version before conducting in-depth testing of the application's functionalities.
- Once we receive a stable build that passes Smoke Testing, we will conduct thorough testing using the created Test Cases.
- Multiple Test Resources will simultaneously test the application across various supported environments.
- We will report any bugs in the bug-tracking tool. As part of the testing process, we will perform the following types of testing:
    - Smoke Testing and Sanity Testing
    - Regression Testing and Retesting
    - Usability Testing, Functional Testing, and UI Testing
- We will repeat the test cycles until we achieve a quality product.

Step # 3 – Best practices to make our testing process 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 involves multiple functionalities to simulate the end-user flows.

Defect Reporting Procedure

- 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 the discovery of a defect, it will be retested to verify the 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 an MS Excel file.
- Test scenarios and Test cases will also be documented in an MS Excel file.

Roles and Responsibilities

Roles and responsibilities will be distributed among the testing team in the following way:

Name	Role	Responsibilities
Person A	Test Manager	✓ Escalations
Person B	Test Lead	✓ 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	✓ Interact with the application ✓ Create and Execute the Test cases. ✓ Report defects
Person D	Test Engineer	✓ Interact with the application ✓ Execute the Test cases. ✓ Report defects

Test Schedule

Following the schedule will be the primary goal, however deadlines may be altered in case of any unforeseen issues.

Task	Time Duration
▪ Creating Test Plan	Start Date to End Date
▪ Test Case Creation	Start Date to End Date
▪ Test Case Execution	Start Date to End Date
▪ Summary Reports Submission	Date

Test Deliverables

Following documents will be delivered to the client upon the successful completion of testing process.

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

Entry and Exit Criteria

Below are the entry and exit criteria for every phase of the Software Testing Life Cycle.

- ### Requirement Analysis
  - #### Entry Criteria
    - Once the testing team receives the Requirements Documents or details about the Project.
  - #### Exit Criteria
    - The list of Requirements is 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
    - The Test Plan document (including the 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 case documents are signed off by the Client.
        - The application is ready for Testing.
    - Exit Criteria
        - Test Case Reports and Defect Reports are ready.
- Test Closure
    - Entry Criteria
        - Test Case Reports and Defect Reports are ready.
    - Exit Criteria
        - Test Summary Reports.

Suspension and Resumption Criteria

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

Tools

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

- Jira -Bug Tracking Tool.
- Snipping Tool - Screenshot Tool.
- MS Word - Documentation.
- MS Excel – RTM, Test Scenarios, Test Cases, etc.

Risks and Mitigations

The following is the list of risks possible and the ways to mitigate them.

- Risk # 1
    - Delay in the availability of third-party API.
    - Mitigation
        - Early implementation of API functionality.
- Risk # 2
    - Non-Availability of a Resource.
    - Mitigation
        - Backup Resource Planning.
- Risk # 3
    - The build URL is not working.
    - Mitigation
        - Resources will work on other tasks.

- Risk # 4
    - Less time for Testing.
    - Mitigation
        - Ramp up the resources based on the Client's needs dynamically.

Approvals

The 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.