**TEST PLAN**

**TP\_Gift\_Basket\_V1.0**

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**1.Introduction**

This Web Application allows users to order Personalized/Customized gifts for themselves and their loved ones online. The payment can be made online through UPI, Debit/Credit Cards or Net Banking.

**2.Scope**

**2.1 Features to be tested**

|  |  |  |
| --- | --- | --- |
| **Modules** | **Applicable Roles** | **Description** |
| **Welcome Page** | **Users** | **Users can navigate to** **the Home page of Gift Basket after clicking on Start your first Order Now button.** |
| **Home Page** | **Users** | **Users can see the product Categories and overview of the website.** |
| **Product Catalog Page** | **Users** | **Users can able to see various products in that Category.** |
| **Product Detail View Page** | **Users** | **Users can able to see the details of product.** |
| **Transaction Page** | **Users** | **Users can make payments.** |
| **Feedback Page** | **Users** | **Users can provide Feedback.** |

**2.2 Features not to be tested**

These features will not be tested:

* **Sales Transaction-** Feature cannot be tested due to time constraint.
* **User Interface –** Feature cannot be tested due to time constraint and can be tested in next version.
* **Hardware Interface** – As it is out of scope for testing
* **Software Interface** – As it is out of scope for testing

**3.Quality Objectives**

**3.1 Primary Objective-**

The Primary objective of the project is to ensure that the software meets all the specified requirements. At the end of the project development lifecycle the user should find that the software had met all the requirements.

**3.2 Secondary Objective-**

The secondary objective of testing will be to identify all defects which can cause failure and expose all issues and fix them before the release of the project.

**4.Test Strategy**

Test Strategy communicates the test approach used by the testing team.

**4.1 Levels of testing**

* **Integration Testing-**

Individual modules are combined and tested as a group.

* **System Testing-**

Conducted on fully integrated system to evaluate that the system met all the specified requirements.

* **System Integration Testing-**

Conducted on combined systems to ensure that the data crossing the boundary between system is received, stored and used appropriately by the receiving system.

* **User Acceptance Testing-**

Conducted to check that the end users are able to complete the process and check the user friendliness of the application.

**4.2 Types of testing**

* **Functional Testing-**

Functional testing is carried out in order to find out the unexpected behavior of the system.

* **Non-Functional Testing**
* **Smoke Testing-** To check the critical functionalities of the system.
  + **Security Testing-**Security testing would be carried out to find the security of the system.
  + **Compatibility Testing-**Compatibility testing would be carried out to ensure that the system works on all the browsers and operating systems.
  + **Localization Testing-**Localization testing would be carried out to ensure that the system works in various languages.
  + **Stress Testing –** Checks that the application is able to carry the load of concurrent users to some extent.
  + **Usability Testing** – Checks whether the user is able to complete the process requirements.
  + **Recovery Testing** – Checks whether application is able to recover itself after crashing.
  1. **Test design techniques**

Takes some random modules and tests with the test cases as Exhaustive Testing is impossible so the below techniques are used for test design:

* + **Boundary Value analysis** – To test the boundaries of the class and help to find the error at the edges.
  + **Equivalence Partitioning** – To divide the input into partitions as equivalence classes and testing only one condition from each partition.
  + **State Transition Techniques** – To test not only by the input and output but also by the scenarios.
  + **Decision Tables** – To test when the outcome or logic involved and it is based on the values and making in the table.
  + **Use Case Testing** – Identifying the text scenarios that checking the whole system on each transaction from start to finish.

**5. Entry and Exit Criteria**

* **Entry criteria**
  + All the previous phases have been completed and signed off.
  + Testing resources have completely understood the requirements.
* **Exit criteria**
  + Completion of test cases.
  + When budget has been spent.
  + The schedule has been achieved.

**6.Suspension and Resumption Criteria**

* **Suspension criteria**
  + If the smoke test fails, then the testing of the software will be suspended.
  + If there are blocking defects in the module, then the module is temporarily suspended.
* **Resumption criteria**
* Resumption will occur only when the problems that caused the suspension has been resolved.

**7.Test Deliverables**

* **Test plan document** - How the planning will happen and the steps to be done for testing
* **Test case document** – How the test cases will be designed according to the requirements
* **Test case scripts** – Writing all the test cases in the table writing its expected and actual result
* **Test log document** – Detailed Summary of all the test run and indicates all the passed and failed tests
* **Defect log document** – Detailed Summary of all the defects arise during testing and resolved status
* **A test summary report** - Test observations are prepared after completing the testing and sharing to all stake holders

**8.Risk and Mitigation**

|  |  |
| --- | --- |
| **Risk** | **Mitigation** |
| Team members do not have skill for website testing | Plan a training workshop |
| Availability of application 24/7 | Increase the stress power of the existing servers |

**9.Roles and Responsibilities**

|  |  |
| --- | --- |
| **Roles** | **Responsibilities** |
| Project Manager | * Act as primary contact between development, QA and testing team. * Responsible for project schedule and the overall success of the project. |
| Test Lead | * Checks that all modules have been tested. * Supervises the work done by the testers. |
| QA Lead | * Participation in the creation of the project plan. * Planning and organizing the release of the project. |
| QA team | * Understand the requirements. * Coordinate with the QA analyst in case of any issue. |
| Testing team | * Writing and executing test cases. * Logging defects and raising defects. |

**10.Schedule**

|  |  |  |
| --- | --- | --- |
| **Task** | **Members** | **Time taken to complete** |
| Test Planning | Test Lead | 13th Dec 2021-15th Dec 2021 |
| Test Strategy | Test Lead | 16th Dec 2021-19th Dec 2021 |
| Test Design | Tester | 20th Dec 2021-25th Dec 2021 |
| Test Execution | Tester | 26th Dec 2021-30th Dec 2021 |
| Test Closure | Test Lead | 31st Dec 2021-3rd Jan 2021 |

**11.Approvals**

|  |  |
| --- | --- |
| **Name** | **Signature** |
| **Project Manager** |  |
| **Test Lead** |  |
| **QA Lead** |  |
| **Development Lead** |  |
| **Client** |  |