PriyoShop

Test Plan

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| **Document Author:** | **Document Version:** | **Revised Date:** | **Approved By:** |
| Md. Atik Foysal | 1.0 | Oct 26th, 2021 | Sabiul Islam |

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## **Introduction**

The Test Plan was established to help team members communicate more effectively. This document outlines the techniques and procedures that will be used to do various types of testing on the https://priyoshop.com/ for website (Windows 10) and https://play.google.com/store/apps/details?id=com.priyoshop.companion for Mobile Application (Android) sections. The goals, scope, test responsibilities, entrance and exit criteria, important schedule milestones, methodologies, risk, and acronyms are all included. This document specifies the test deliverables as well as what is considered in and out of scope.

***Used Framework: ASP.NET (***found out from <https://builtwith.com/>***)***

***Website URL:*** [*https://priyoshop.com*](https://priyoshop.com)

## **Test Items**

1. Feature to be tested.

* Name
* Email
* Phone
* Password
* Confirm Password
* Street Address

1. Feature not to be tested.

* Header
* Footer
* Navigation
* Country
* District
* Police Station

## **Quality Objective:**

This Test Plan's goal is to assure system dependability, as well as optimal performance and capacity utilization. This test plan compares the application's performance against end user expectations in both the existing and new production environments. Basically, this is a test to see if the existing system can be improved and updated.

## **Test Methodologies:**

This project will be managed using agile approach, with work being updated on a weekly basis. The work is distributed on and will be carried out in accordance with the requirement-based strategy outlined in this test plan. After each step, each feature will be evaluated independently and in conjunction with the others, and results should be submitted on time. During exploratory testing, test cases should be generated. Testing methodologies (In scope/Out Scope) are given below:

i. ***Test Levels:***

In Scope:

* Functional Testing (a Black-box type testing geared to the functional requirements of this application)
* UAT (For a tester’s perspective)

Out of Scope:

* Performance Testing (check whether the system meets the performance requirements)
* Integration Testing (to verify the combined functionality after integration)
* Regression Testing (Cart, Checkout Flow) (Repeated testing of same module)
* Security Testing (Payment) (to check how the software or application or website is secure from internal and external threats)
* Cross-browser Testing (check whether the system is supported in every browser)
* Database Testing
* API Testing

***ii. Test Strategy:***

*Test Cases Preparation & Execution:*

* QA will be preparing test cases. This will cover all scenarios for requirements.
* Peer review will be conducted from time to time for test cases and test matrix by QA Lead.
* Respective Author of Test Case and Test Matrix will provide comment or suggestions on test cases and test coverage if needed.
* Author will re-work on the suggestions/improvements that has been given on Test Cases/Matrix and will send for approval. Re-worked improvements will be reviewed and approved by reviewer.
* Respective QA will execute Test Cases on test site based on designed scenarios, test cases and Test data.
* (Actual Result with Expected Result-> Pass/Fail) Test result will be updated in test case document.

*Defect Logging and Reporting:*

* QA will log the defect/bugs in prospective management tool. After this, QA will inform the respective developer about the defect/bugs that has been logged.

*Retesting:*

* Respective QA will Retesting for fixed bugs after it is resolved by respective developer. Bug/defect status will be updated accordingly. In certain cases, if its required then regression testing will be done.

*Deployment/Delivery:*

* Once all bugs/ defect that has been reported after complete testing are fixed, afterwards if no other bugs are found, report will be deployed to test site by PM.
* Once QA are done with the round of testing on test site and if it is required Report will be delivered along with sample output by email to the respective team member.
* QA will hand over the hard copy of delivery documents to the respective developer.

## **Roles & Responsibilities:**

|  |  |  |
| --- | --- | --- |
| Role: | Contact Name & Information: | Responsibilities |
| Project Manager | Sabiul Islam [ja@priyoshop.com](mailto:ja@priyoshop.com) | 1. The primary contact for the development and QA team. 2. Participate in Test Scenarios. 3. Participate in Test Cases review. 4. Responsible for Project schedule and the overall success of the project 5. Verify sign Off on Requirements, Test Scenarios, Test Cases. |
| QA Lead | Md. Ebrahim Hossain [he@priyoshop.com](mailto:he@priyoshop.com) | 1. Participation in the project plan creation/update process. 2. Planning and organization of test process for the release. 3. Coordinate with QA analysts/engineers on any issues/problems encountered during testing. 4. Report progress on work assignments to the PM 5. Monitor quality metrics and performance throughout each testing phase. 6. Monitor QA burn down rate and status. |
| QA | Md. Atik Foysal [mj@priyoshop.com](mailto:mj@priyoshop.com) | 1. Understand the features requirements.  2. Writing and executing Test cases.  3. Preparing RTM  4. Reviewing Test cases, RTM with PM, QA Lead  5. Preparation of Test Data  6. Log in Defects and keep tracking.  7. Retesting and regression testing  8. Bug Review meeting  9. Provide and monitor Testing Schedule to team members.  10. Coordinate with QA Lead for any issues or problems encountered during test preparation/execution/defect handling. |
|  |  |  |

## **Entry & Exit Criteria**

1. Entry Criteria

* QA resources have completely understood the requirements.
* QA resources have sound knowledge of functionality.
* Test Scenarios & Cases Approved.
* All the necessary documentation, design, and requirements information should be available that will allow testers to operate the system and judge the correct behavior.
* Application Smoke Test Completed (If Applicable).

1. Exit Criteria

* Test Cases Execution Completed.
* A certain level of requirements coverage has been achieved.
* Outstanding Severity 1 & 2 Defects Completed
* No high priority is left outstanding.
* UAT Test Evidence Collected
* Test Closure Memo completed and signed off.

## **Suspension Criteria & Resumption Requirement**

|  |  |
| --- | --- |
| Suspension Criteria: | Resumption Requirement |
| If the start of the testing is delayed due to design tasks, the test cannot be extended beyond the UAT scheduled start date. | Some buffer has been added to the schedule for contingencies, although not as much as best practice advise. |
| Server issues. | Server should be in check/renewed from time to time. |
| Significant number of high and critical issues still open at or near End-to-End testing phase. | Analysis of the open issues with other test groups, development, and product support to determine which issues can be deferred. |
| New feature/functionality added during the testing phase. | Extend the resting cycle or remove test requirements/ expectations. |

## **Resources & Environment Needs.**

i. Resources

|  |  |
| --- | --- |
| Description | Tool |
| Need a Database server which install MySQL server Web server which install Apache Server | Server |
| Setup a LAN Gigabit and 1 internet line with the speed at least 5 Mb/s | Network |
| Windows 10, Ram 4GB, CPU 3.4GHZ | Computer |

ii. Testing Tools

|  |  |
| --- | --- |
| Process | Tool |
| Test Case creation | Microsoft Excel |
| Test Case Tracking | Microsoft Excel |
| Test Case Execution | Manual, Selenium |
| Test Case Management | Microsoft Excel |
| Defect Management | Jira |
| Test Reporting | Microsoft Excel & Jira |

iii. Configuration Management: GitHub

iv. Test Environment:

Support level (browsers): Windows 10: Edge, Chrome (latest), Firefox (latest).

## **9.Test Schedule**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task Name | Start | Finish | Done BY | Estimated Time |
| Test Planning | 10/23 | 10/23 | Atik Foysal | 3 hours |
| Review Requirements documents | 10/23 | 10/23 | Atik Foysal | 30 minutes |
| Create test basis | 10/24 | 10/28 | Atik Foysal | 30 minutes |
| Staff and train new test resources | \_\_ | \_\_\_ | Atik Foysal | 30 minutes |
| UAT | 10/26 | 10/27 | Atik Foysal | 2 hours |
| Resolution of final defects and final build testing | 10/27 | 10/28 | Atik Foysal | 3 hours |
| Deploy to Staging environment | 10/28 | 10/29 | **Future work** |  |
| Release to Production | 10/29 | 10/30 | **Future work** |  |

## ***10. Deliveries***

Test deliverables are provided as below:

Before testing phase

* Test plans document.
* Test cases documents
* Test Design specifications.

During the testing

* Test Tool Simulators.
* Test Data
* Test Trace-ability Matrix - Error logs and execution logs.

After the testing cycles is over

* Test Results/reports
* Defect Report
* Installation/ Test procedures guidelines
* Release notes

## ***Risk & Assumptions***

**Risk:**

1. in old / no-updated browser, system may fail to load when javascript if disabled

**Assumptions:**

1. For some optimization of resources , test plan may fail
2. Skill level of resources
3. Availability of test tools/resources
4. Delays in training on the application and/or tools.

## **Terms/Acronyms**

|  |  |
| --- | --- |
| **Term/Acronyms** | **Definition** |
| API | Application Programming Interface |
| PM | Product Manager |
| QA | Quality Assurance |
| RTM | Requirements Traceability Matrix |
| UAT | User Acceptance Testing |

## **Approvals**

|  |  |  |  |
| --- | --- | --- | --- |
| Approved By | Approval Tittle | Date | Attachment |
| 1. Sabiul Islam | Product Manager | 28 - oct - 2021 | None |
| 1. Md. Ebrahim Hossain | QA Lead | 28 - oct - 2021 | None |