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# 

**TEST PLAN**

2019 December 16

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# 1.0.0 Introduction

### 1.1 Document Purpose

### 1.2 Document Scope

This Release Note document provides information about features implemented, Configuration details and test details related to Production release test plan 14-12-2019 of the Propine Addition Calculator Application.

### 1.3 Objectives

Communicate to all stakeholders the detailed plan for running the system tests.

### 1.4 Definitions, Acronyms and Abbreviations

QA – Quality Assurance

OS – Operation System

Env. - Environment

### 1.5 Business Requirement

Propine Addition Calculator Application is software built to addition functionality online.

### 1.6 Team members

|  |  |
| --- | --- |
| Resource Name | Project Role |
| Bashini Gamage | QA Engineer |

### 1.7 References

* GitHub repository link

# 2.0 Assumptions / Risks

### 2.1 Assumptions

* All related Requirement documents finalized with client.
* Project servers arrive configured as expected.
* Network connection establish without issue.

### 2.2 Risks

None.

### 2.3 Known Issues and Limitations

* Only adding function implemented

# 3.0 Test Approach

The project is using an agile approach, with weekly iterations. At the end of each week the requirements identified for that iteration will be delivered to the team and will be tested.

### 3.1 Test Types

### 3.1.1 Branch/Feature Testing

Branch/ Feature testing is part of the test process. Here, Test individual unit separately before integrate to main code branch.

### 3.1.2 Smoke Testing

Smoke testing is a type of software testing that comprises of a non-exhaustive set of tests that aim at ensuring that the most important functions work. The result of this testing is used to decide if a build is stable enough to proceed with further testing.

### 3.1.3 Integration Testing

Integration testing is the sprint in software testing in which individual software branches/features are combined and tested as a group. It occurs after branch/feature testing and before regression testing.

### 3.1.4 Regression Testing

Regression testing is re-running functional tests to ensure that previously developed and tested software still performs after a change.

### 3.1.5 Test Automation

Automated unit tests are part of the test process, but no automated functional tests are planned at this time.

### 3.1.6 API Testing

API testing is a type of software testing that involves testing application programming interfaces (APIs) directly and as part of integration testing to determine if they meet expectations for functionality, reliability, performance, and security.

### 3.2 Browser/ Devices Compatibility

Plan to conduct testing Development items and Bugs on following browsers (Windows OS platform),

* Google Chrome version 52.0.2743.116 m
* Firefox version 48.0.1

### 3.3 Test Data

Each of the individual QA team member will be responsible for creating the test data.

### 3.4 Test Criteria

### 3.4.1 Test entry criteria

1. Software requirement specification should be finalized
2. Environment in which, each testing type is planned, are stable and testing can be carried out without interruptions
3. Functional tests for respective user stories must be passed
4. Builds need to be deployed to test & Staging environments and should be up and running status.
5. Staging environment must be pass smoke testing 80%

### 3.4.2 Test Exist criteria

Following are the acceptance criteria for successful End to end Integration testing for <Project Name>;

1. All the user stories included in each of the releases of the project have been accepted by the Scrum Product Owner(s).
2. A full integration testing has been completed.
3. All defects have been accounted for and managed appropriately.
4. No Severity 1(Blockers) and Severity 2(Critical) defects in Integration workflows.

# 4.0 QA Environments & Tools

### 4.1 Environments

|  |  |
| --- | --- |
| **Environment** | **Type of Testing** |
| Continuous Integration Environment | Branch/Feature Testing |
| Test Environment | Smoke Testing, System integration Testing, Defect verification |
| Staging Environment | Regression Testing  Rollback roll forward testing |
| Production Environment | Client reported bug investigation |

### 4.2 Test Tools

|  |  |
| --- | --- |
| **Purpose** | **Tool** |
| Test Management | GitHub Repository |
| Defect Management | GitHub Repository |
| Test Automation | Protractor Framework |

### 4.3 Defect Management

Defects would be tracked in JIRA. All the identified issues would be duly communicated to the Dev team with recreation steps. Issues would be categorized based on severity and priority. Issues would be fixed based on the priority and once fixed; QA team would verify the fixes. There shouldn’t be any Severity 1(Blockers) and Severity 2(Critical) issues open by the time of the release unless accepted by the product. If any existing issues are found during the tests, team would track them and report to the product.

# 5.0 Milestones / Deliverables

### 5.1 Test Items Delivery Plan

The initial test plan as follows,

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Item Number** | **Description** | **Severity of Task** | **Test cases Required** | **Resource plan** | **Effort (Hours)** | **Testing start date (On test env.)** | **Testing end date (On test env.)** | **Final Release date** |
| 1 | Propine Addition Calculator- Manual testing | High | Yes | Bashini | 05 hrs. | 14-Dec-19 | 15-Dec-19 | 18-Dec-19 |
| 2 | Propine Addition Calculator- Automation | High | Yes | Bashini | 10 hrs. | 16-Dec-19 | 18-Dec-19 | 18-Dec-19 |

### 

### 5.2 Deliverables

The deliverable plan as follows,

|  |  |  |
| --- | --- | --- |
| Deliverables | For | Milestone |
| Test Plan | Project Manager | 18-Dec-19 |
| Bug Report | Project Manager | 18-Dec-19 |
| Automation Test scripts | Project Manager | 18-Dec-19 |

### 5.3 Deliverables

* **Test Plan Document**

<https://inexis.atlassian.net/wiki/spaces/PAW/pages/8781835/SQA-FRM-003-Test+Cases>

* **Bug Report**

<https://inexis.atlassian.net/wiki/spaces/PAW/pages/8552462/SQA-CHK-007-Test+Scenario+Checklis>

* **Automation Test Scripts**

<https://inexis.atlassian.net/wiki/spaces/PAW/pages/8781835/SQA-FRM-003-Test+Cases>

# 6.0 Appendices

None.