**Test Plan**



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# Revision History

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| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Revision Description** |
| 1.0 | 02/05/2022 | Dilshanie | Initial draft document |

# 1. Introduction

The Test Plan has been created to communicate the test approach to be followed to test Swag Labs.  It includes the objectives, scope, schedule, risks, and approach. This document will clearly identify what the test deliverables will be and what is considered in and out of scope.

# 2. Objectives

* Identify existing project information and the software that should be tested.
* List the recommended test requirements (high level).
* Recommend and describe the testing strategies to be used.
* Identify the required resources and provide an estimate of the test efforts.
* List the deliverable elements of the test activities

# 3. Scope

The QA process for Swag Labs will cover the complete validation of end-to-end business requirements and testing of Swag Labs web portal.

# 4. Assumptions / Risks / Coverage

## 4.1 Assumptions

* The first testable QA build will be available for testing by dd/mm/yyyy.
* Each testable build in the QA environment will have passed Unit tests.

## 4.2 Risks

Six weeks might not be enough time to test the entire system and then retest the system to find new defects due to fixes. (Duration are assumptions )

Implementing an automation tool and mastering it will be a bit difficult for inexperienced staff.

## 4.3 Coverage

## Test coverage will be measured by:

* A completed matrix of testable requirements and test cases.
* A completed matrix of business processes and business test cases.

In the event that coverage levels are not met, the QA manager will determine if the actual levels are adequate in light of the system risks.

### 4.3.1 Software Components

### All software modules in the Swag Labs web portal will be tested.

### 4.3.2 Requirements

### All user requirements as specified in the Requirements Specification document will be tested.

### 4.3.3 Business Processes

### All business processes will be validated completely.

The main business processes are as follows.

* Sign in - standard\_user, locked\_out\_user, problem\_user, performance\_glitch\_user
* Dashboard - Item grid list, Slide Menu
* Item Sorting Function
* Add to cart

# 5. Test Approach

An agile approach will be followed with iterations of two weeks, from here on referred to as Sprints. A set of requirements will be identified at the beginning of each Sprint. The completely tested output of the above set of requirements will be the deliverables for each Sprint.

# 6. Testing Strategy

## 6.1  Unit Testing

The first level of testing is done. Usually carried out by the developers to validate that each unit of the software code performs as expected.

## 6.2 Integration Testing

The purpose of this level of testing is to expose defects in the interaction between multiple software modules when they are integrated.

## 6.3 System Testing

The testing phase is where end-to-end system specifications are tested from a user’s perspective.

### 6.3.1 System testing types to be applied on the Application Under Test

#### 6.3.1.1 Usability Testing

User’s ease to use the application, flexibility in handling controls, and ability of the system to meet its objectives.

#### 6.3.1.2 Functional Testing

Completeness testing. Ensure end-to-end functionalities are working properly, with no defects and business requirements are met.

#### 6.3.1.3 Non-Functional Testing

Stress/Load testing was carried out in order to verify the system’s performance under real-life situations.

#### 6.3.1.4 Regression Testing

Testing was done to make sure none of the changes made over the course of the development process have caused new bugs. It also makes sure no old bugs appear from the addition of new software modules over time.

#### 6.3.1.5 Smoke Testing

Testing was done to verify the successful deployments to UAT/Production environments.

### 6.3.2 Entry Criteria

* Requirements are well understood and available for reference
* Completion of integration testing
* Availability of test environment
* Availability of test cases

### 6.3.3 Exit Criteria

* Successful execution of all test cases
* All business/functional requirements specified in the SRS are met
* No priority bugs are left unresolved

## 6.4 User Acceptance Testing

This is the final stage of the testing process.  UAT tests the adherence to customer requirements. The purpose is to validate the end-to-end business flow.

### 6.4.1 Entry Criteria

* Business Requirements must be available.
* Application Code should be fully developed
* Unit Testing, Integration Testing & System Testing should be completed
* No Showstoppers (High severity, priority defect)
* Regression Testing should be completed with no major defects
* All the reported defects should be fixed and tested before UAT
* UAT Environment and test data must be ready

### 6.4.2 UAT Process

Tasks that are to be performed by the testers once entry criteria are met:

* Creation of UAT test plan
* Identify Test Scenarios
* Create UAT Test Cases
* Preparation of Test Data (Production like Data)
* Run the Test cases
* Record the Results
* Confirm business objectives

### 6.4.3 Exit Criteria

* No critical defects open
* Business process works satisfactorily
* UAT Sign off

# 7. Test Environment

## 7.1 Hardware Requirements

* Computers
* Mobile devices  
  Android  
  iOS  
  (supported versions)

## 7.2 Software Requirements

Framework:

Platform:

RAM:

# 8. Milestones / Deliverables

## 8.1 Test Schedule

|  |  |  |  |
| --- | --- | --- | --- |
| **Module** | **Resource** | **Start Date** | **End Date** |
| Sign In - standard\_user |  |  |  |
| Sign In - locked\_out\_user |  |  |  |
| Sign In - problem\_user |  |  |  |
| Sign In - performance\_glitch\_user |  |  |  |
| Dashboard – Item List |  |  |  |
| Dashboard – Slide Menu |  |  |  |
| Item Sorting Function |  |  |  |
| Add to cart |  |  |  |

## 8.2 Deliverables

* Test Plan
* Test Cases
* Bug Reports