

# Test Plan

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## **1. Introduction**

This document describes the plan for testing the checkout page, where users can make their own reservation for a Kasa property. This Test Plan supports the following objectives:

- Identify the items to be tested
- Features to be tested
- Types of testing to be performed
- Personnel responsible for testing
- Resources and schedule required to complete testing
- Risks associated with the plan

## **2. Test Strategy**

### **2.1. Scope**

In scope: The document mainly targets the functional and non-functional(performance and security tests) features of the checkout page on Google Chrome web-browser.

Out of scope: Other functional requirements like login sessions, booking flow and other non-functional requirements tests.

### **2.2. Testing types**

In the project, there are 4 types of test should be conducted.

- Unit test: Done by Dev Team
- Integration test: Done by Dev Team
- System test: Done by QA Team
- Automation test: Done by QA Team

### **2.3. Feature to be tested**

Following features has to be tested:

Checkout with Kasa discount  
Checkout with valid and invalid coupon codes  
Checkout without Kasa discount and coupon codes  
Checkout with valid and invalid payment data  
Verifying error messages and notifications

## **3. Assumptions**

- Test environment and preparation activities will be owned by Dev Team.
- QA team will be provided by with access to the Test Environment.
- The defects will be tracked through JIRA. Any defect fix planned will be shared with QA Team prior to applying the fixes on the Test Environment.
- Developer team has completed unit and integration testing.
- Test cases are developed and approved.
- Test results will be reported on daily basis.

## 4. Test criteria

### 4.1. Entry criteria

Following conditions must be met before a test can be performed:

- Defined and Approved Requirements
- Testable Code with Appropriate Test Environment
- Test Cases and Test Data
- Test devices

### 4.2. Suspension criteria

If the team members report that there are 40% of test case failed, suspend testing until the development team fixes all the failed cases.

### 4.3. Exit criteria

Specifies the criteria that denote a successful completion of a test phase:

- Run mandatory to be 100% unless a clear reason is given.
- Pass rate is 80%, achieving the pass rate mandatory.

## 5. Risks

Risk	Description	Mitigation
Lack of system resource	Application can crash while querying old conversation in yearly date range	Planning to dedicate more system resources.
Human resource availability	Number of testers is unsatisfactory. There is one tester who free to execute test cases in this project.	Planning to allocate more testers.

## 6. Supported web-browsers and versions

Following web-browsers can be used for testing with the following versions:

Supported browsers	Supported versions
Google Chrome	94.0.4606.55 - 94.0.4605.81
Safari	Latest - 15.0 (16612.1.29.41.4, 16612)

## 7. Tools

Following tools can be used for prepare and execute tests:

Role	Tool
Project Management	JIRA
Test Management	TestRail and VS Code
Issue tracking	JIRA

## 8. Resources

This section presents the recommended resources for testing the checkout page, their main responsibilities, and their knowledge or skill set.

### 8.1. Human resources

This table shows the staffing assumptions for the test of the application:

Human resources	
Role	Specific responsibilities
Test Manager	Provides management technical direction.
	Management reporting
Software tester	Generate test plan
	Generate test suit
	Identifies, prioritizes and implement manual and automated test cases
	Execute manual and automated test cases
	Raise bug tickets
	Evaluate test result

### 8.2. System resources

The following table sets the system resources for the testing the checkout page:

System resources	
Resources	Description
Application	Release build : 10.0
Network	Wifi connection necessary for executing tests
Device	Windows and Mac desktop with Google Chrome and Safari browsers

## 9. Schedule

Plan test

- Identify requirements
- Develop test strategy
- Identify test resources
- Create schedule
- Generate test plan

## Design test

- Develop test suit
- Create manual and automated test cases

## Implement test

- Setup test environment on the test devices and browsers

## Execute Test

- Execute test cases
- Verify the results
- Investigate unexpected results
- Report bugs

## Evaluate Test

- Create test evaluation report

## 10. Timeframe

- Sprint will start on 19 October 2021 and ended on 2 November 2021
- There will be 10 MD to deliver the new features and done testing activities on Checkout page
- Release date planned on the last day of the sprint, 2 November 2021

Task	Members	Estimate effort
Generate test plan	Software Tester	4 man-hour
Generate test suit		4 man-hour
Identifies, prioritizes and implement manual and automated test cases		24 man-hour
Execute manual and automated test cases		16 man-hour
Raise bug tickets		4 man-hour
Evaluate test result		2 man-hour
Total		54 man-hour