**Test Plan for ShopEase.com**

**Objective**

This document outlines the Test Plan for the ShopEase e-commerce application, which aims to provide a seamless online shopping experience.

**Scope**

The features and functionality of ShopEase.com that will be tested include:

• User registration and login

• Product search and filtering

• Shopping cart functionality

• Checkout process

• Order history and tracking

• Mobile compatibility

The types of testing that will be performed include:

• Manual testing

• Automated testing

• Performance testing

• Security testing

• Accessibility testing

The environments in which testing will be conducted:

• Different browsers

• Operating systems

• Device types

Criteria for success:

• Number of defects found

• Time taken to complete testing

• User satisfaction ratings

Roles and responsibilities:

• Test lead

• Testers

• Developers

Schedule and milestones:

• Start and end dates

• Planned testing activities

Tools and equipment:

• Testing software

• Hardware

• Documentation templates

**Inclusions**

• User Registration

• User Login

• Product Search

• Product Filtering

• Shopping Cart

• Checkout Process

• Order History

**Exclusions**

• Customer Support Chat

• FAQ Section

**Test Environments**

**• Operating Systems and Versions**: Windows 10, macOS, Linux

**• Browsers and Versions**: Google Chrome, Mozilla Firefox, Microsoft Edge, Safari

**• Device Types and Screen Sizes**: Desktop computers, laptops, tablets, smartphones

**• Network Connectivity and Bandwidth**: Wi-Fi, cellular, wired connections

**• Hardware and Software Requirements**: Specific processor, memory, storage capacity

**• Security Protocols and Authentication Methods**: Passwords, tokens, certificates

**• Access Permissions and Roles**: Testers, developers, stakeholders

**Environment URLs:**

• QA: qa.shopease.com

• Pre Prod: preprod.shopease.com

• UAT: uat.shopease.com

• Prod: www.shopease.com

**Supported Configurations:**

• Windows 10: Chrome, Firefox, Edge

• Mac OS: Safari Browser

• Android Mobile OS: Chrome

• iPhone Mobile OS: Safari

**Defect Reporting Procedure**

Criteria for identifying a defect:

• Deviation from requirements

• User experience issues

• Technical errors

Steps for reporting a defect:

• Use a designated template

• Provide detailed reproduction steps

• Attach screenshots or logs

Process for triaging and prioritizing defects:

• Assign severity and priority levels

• Assign to appropriate team members

Tools and systems for tracking defects:

• Defect tracking software

• Project management tool

Roles and responsibilities:

• Testers

• Developers

• Test lead

Communication channels and frequencies:

• Regular updates to stakeholders

Metrics for effectiveness:

• Number of defects found

• Time taken to resolve defects

• Percentage of successfully fixed defects

**Defect Process POCs:**

• Frontend: Alex

• Backend: Maria

• Dev Ops: John

**Tools:**

• JIRA

**Test Strategy**

**1. Create Test Scenarios and Test Cases:**

◦ Equivalence Class Partition

◦ Boundary Value Analysis

◦ Decision Table Testing

◦ State Transition Testing

◦ Use Case Testing

◦ Error Guessing

◦ Exploratory Testing

**2. Testing Procedure:**

◦ Conduct smoke testing

◦ Reject unstable builds

◦ Perform in-depth testing on stable builds

◦ Multiple testers on multiple environments

◦ Report bugs and send end-of-day status emails

◦ Repeat test cycles until quality is achieved

**3. Best Practices:**

◦ Context Driven Testing

◦ Shift Left Testing

◦ Exploratory Testing

◦ End-to-End Flow Testing

**Test Schedule**

**• Creating Test Plan**: Start Date - End Date

**• Test Case Creation**: Start Date - End Date

**• Test Case Execution**: Start Date - End Date

**• Summary Reports Submission**: End Date

**Test Deliverables**

• Test Plan Document

• Test Cases Document

• Test Reports

• Defect Reports

**Entry and Exit Criteria**

**Requirement Analysis:**

• Entry: Receipt of Requirements Documents

• Exit: Requirements explored and understood, doubts cleared

**Test Execution:**

• Entry: Test Cases signed-off, application ready for testing

• Exit: Test Case Reports, Defect Reports ready

**Test Closure:**

• Entry: Test Case Reports, Defect Reports ready

• Exit: Test Summary Reports

**Tools**

• JIRA Bug Tracking Tool

• Mind map Tool

• Snipping Screenshot Tool

• Word and Excel documents

**Risks and Mitigations**

**• Non-Availability of a Resource**: Backup Resource Planning

**• Build URL not working**: Resources will work on other tasks

**• Less time for Testing**: Ramp up resources dynamically

**Approvals**

• Test Plan

• Test Scenarios

• Test Cases

• Reports

Testing will only proceed to the next steps once approvals are obtained.