Test Plan

GOAT Checkout Process

#### ****PROJECT OVERVIEW****

The GOAT Checkout Process Testing project aims to evaluate the functionality, usability, and performance of the checkout experience on the GOAT website. Given the importance of a smooth checkout in enhancing customer satisfaction, this project focuses on ensuring that users can complete their purchases efficiently and without issues.

| **Project Name** | **GOAT Checkout Process Testing** |
| --- | --- |
| **Prepared By** | Tetiana Babchenko |
| **Date** | 00.00.0000 |
| **Objective** | Ensure the GOAT checkout process functions correctly for all customers and provides a seamless user experience. |
| **Scope** | - Functionality testing (cart, address selection, payment methods, order review, and confirmation)  - UI/UX testing  - Cross-device and cross-browser testing |
| **Out of Scope** | - Backend API testing for payment processing  - Order fulfillment systems  - Amazon mobile app |

#### ****TESTING STRATEGY****

**Testing Types**: Functional testing, UI/UX testing, Compatibility testing (cross-browser and cross-device), Performance testing, Security testing.

**Approach**: Execute test cases covering each step of the checkout process (cart, address, payment, review, confirmation). Use manual and automated testing tools where applicable.

**Entry Criteria**: Test environment is set up, preconditions are met, test cases are reviewed and approved.

**Exit Criteria**: All critical and high-priority defects are resolved, all test cases are executed with expected results, and performance requirements are met.

**RESOURCES**

**Personnel**: QA engineers, Test Lead, Project Manager.

**Tools**: Cypress (for automation), BrowserStack (for cross-browser and device testing), JIRA or similar tool (for defect tracking), Postman (for API testing in checkout flow, if needed).

#### ****TEST ENVIRONMENT****

| **Environment Component** | **Details** |
| --- | --- |
| Browser | Chrome, Firefox, Safari, Edge |
| Operating System | Windows, macOS, iOS, Android |
| Devices | Desktop, tablet, mobile |
| Network Conditions | High-speed, low-speed, intermittent connections |

#### ****TEST SCHEDULE****

| **Phase** | **Start Date** | **End Date** | **Description** |
| --- | --- | --- | --- |
| Test Case Development | 00.00.0000 | 00.00.0000 | Developing detailed test cases for each checkout step. |
| Test Execution | 00.00.0000 | 00.00.0000 | Executing test cases and logging defects. |
| Regression Testing | 00.00.0000 | 00.00.0000 | Re-testing after fixes to ensure no new issues introduced. |
| Final Review | 00.00.0000 | 00.00.0000 | Reviewing all test results and ensuring readiness for production. |

#### ****TEST ITEMS****

| **Test Item** | **Description** |
| --- | --- |
| Shopping Cart | Verify items can be added, updated, and removed from the cart. |
| Address Selection | Test address selection for billing and shipping, including the addition of new addresses. |
| Payment Method | Validate the selection and application of various payment methods, including saved cards, gift cards, and promo codes. |
| Order Review | Ensure the order review page displays item details, prices, shipping charges, and tax accurately. |
| Order Confirmation | Verify order confirmation message and email after successful payment. |

**PRECONDITIONS**

| **Precondition ID** | **Description** |
| --- | --- |
| **PC\_01** | User should have an active GOAT account. |
| **PC\_02** | User should be logged in with valid credentials. |
| **PC\_03** | At least one item should be available and in stock in the GOAT store that can be added to the cart. |
| **PC\_04** | User should have at least one item added to the shopping cart to begin the checkout process. |
| **PC\_05** | User should have a valid shipping address saved in their account or be able to add a new one during checkout. |
| **PC\_06** | User should have at least one valid payment method saved in their account or be able to add a new one. |
| **PC\_07** | If testing promo codes or gift cards, ensure a valid promo code or gift card balance is available for testing. |
| **PC\_08** | If testing slow or low internet connectivity, configure the test environment to simulate those conditions. |

**TEST DELIVERABLES**

**Test Plan**: Document outlining the scope, objectives, test items, strategy, and schedule of the test process.

**Test Cases**: Detailed test cases covering each scenario in the checkout process.

**Defect Report**: Log of all identified issues, including descriptions, severity, priority, and status.

**Test Execution Report**: Summary of test results, including passed/failed test cases and retest results for resolved issues.

**Final Test Summary Report**: Overview of the testing process, key findings, and overall readiness for production.

#### ****DEFECT MANAGEMENT****

| **Defect ID** | **Description** | **Priority** | **Severity** | **Status** | **Comments** |
| --- | --- | --- | --- | --- | --- |
| DEF\_001 | Payment method not saving for future use | High | Major | Open | Affects users attempting to save new credit cards |
| DEF\_002 | Incorrect tax calculation on order review page | High | Major | Open | Tax calculation is incorrect in certain regions |
| DEF\_003 | Order confirmation email not received | High | Major | In Progress | Order confirmation via email not received |

#### ****RISKS AND MITIGATIONS****

| **Risk** | **Impact** | **Mitigation** |
| --- | --- | --- |
| High traffic causing slow checkout processing | High | Load and performance testing, optimize backend processes |
| Payment gateway downtime | High | Provide error message and retry option for users |
| Browser compatibility issues | Medium | Comprehensive cross-browser testing |
| Incorrect tax or shipping calculations | High | Regular data validation and integration with tax/shipping providers |