Test PLAN

Project Name: Golden Scent

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# Overview

As part of the project, **'Golden Scent'** has asked the team to test few functionalities of their Loyalty Points and Wallet system for their e-commerce platform (Mobile App, Web Application, and API).

This document serves as high level test planning document with details on the scope of the project, test strategy, test schedule and resource requirements, test deliverables and schedule.

# Platform Distribution:

- 75% iOS, 15% Android, 10% Web  
- Most Active Region: Saudi Arabia (70% of order volume)  
- Languages Supported: English and Arabic

# Scope

The scope of the project includes testing the following features of Golden Scent's Loyalty Points and Wallet system.

## Inclusions

* Loyalty Points System
  + Points Earning
    - * + Earn points on eligible product purchases
        + Points calculation accuracy
        + Points display in profile/cart screen
        + Product eligibility filtering
  + Points Redemption
    - * + Redeem points during checkout
        + Maximum redemption percentage validation (up to 100% of order total)
        + Order total calculation with points applied
  + Points Management
    - * + View earned points balance
        + Expired points logic and notifications
        + Points expiration handling
  + User Access Control
    - * + Guest users do not see loyalty point options
        + Registered users only access
* Wallet System
  + Wallet Balance Management
    - * + View wallet balance
        + Wallet transaction history
        + Minimum wallet threshold validation
  + Wallet Payment Integration
    - * + Use wallet balance for partial payment during checkout
        + Use wallet balance for full payment during checkout
        + Combined payment methods (Wallet + Credit Card)
  + Refund Processing
    - * + Refunds issued to wallet for specific payment types
        + Refund transaction tracking
        + Wallet balance updates after refunds
* Cross-Platform Testing
  + Mobile Application (iOS/Android)
    - * + Appium-based automation testing
        + Cart and checkout flow testing
        + Loyalty points and wallet integration
  + Web Application
    - * + Selenium-based automation testing
        + Cross-browser compatibility
        + Responsive design testing
  + API Testing
    - * + REST API endpoint validation
        + Loyalty points API testing
        + Wallet API testing
        + Error handling and edge cases
* Regional and Localization Testing
  + Saudi Arabia (KSA)
    - * + Arabic language support (RTL layout)
        + SAR currency handling
        + 15% VAT calculation
  + UAE
    - * + AED currency handling
        + 5% VAT calculation
  + Global Markets
    - * + Multi-currency support
        + International payment methods

From our understanding, we believe above functional areas will cover our Functional Testing Scenario.

Functional Testing Scenario will be run against the following test data:

- Product: Golden Scent Perfumes

- Plan: Loyalty Points Plan

- Charge:

1. One Time Charge

2. Recurring Charge

- Price Type:

1. Points-based redemption

## Test Environments

* Mobile Testing
  + IOS: iOS 14+ devices (iPhone 12, iPhone 13, iPhone 14)
  + Android: Android 10+ devices (Samsung Galaxy S21, Google Pixel 6)
  + Testing Tools: Appium with TestNG framework
* Web Testing
  + Browsers: Chrome 90+, Firefox 88+, Safari 14+, Edge 90+
  + Operating Systems: Windows 10, macOS Big Sur, Ubuntu 20.04
  + Testing Tools: Selenium WebDriver with TestNG framework
* API Testing
  + Environment: Staging/Pre-production environment
  + Testing Tools: REST Assured with TestNG framework
  + Mock Services: For loyalty points and wallet endpoints

## Exclusions

* Third-party payment gateway validations (Stripe, PayPal, etc.)
* External loyalty program integrations
* Backend infrastructure and server configuration
* Security penetration testing (handled by security team)
* Load testing beyond normal business volumes
* Third-party analytics and tracking systems
* Email/SMS notification delivery mechanisms
* Legal compliance and regulatory requirements
* All features except those mentioned under 'Inclusions'

# Test Strategy

**Functional Testing**

Mohamed Mostafa will create and execute Test Cases for the above features mentioned in the 'Inclusions' for Golden Scent's Loyalty Points and Wallet system across Mobile App, Web Application, and API. We’ll apply below listed techniques to test the application:

**Functional Testing**

Testing each feature (within the scope) of Golden Scent's Loyalty Points and Wallet system to identify things the product can do as per expectations.

**Flow & Scenario Testing**

Apart from testing individual features, flows and scenarios will be created to replicate end user actions with the application:

- Complete checkout flow with loyalty points redemption

- Wallet payment processing flow

- Combined payment method flow

- Cross-platform data synchronization

**Usability Testing:**

Testing the ease with which the user can interact with the application and test whether the application is built in a user-friendly manner:

- Mobile app navigation and user experience

- Web application responsiveness

- Multi-language support (English/Arabic)

- RTL layout support for Arabic

### **Rollout Plan**

**Objective**: The phased rollout plan will allow for controlled testing and early detection of issues with the Loyalty Points and Wallet system before the full release. The following phases will be implemented:

#### **Phase 1: Initial Test Group (Squad Scope Testing)**

* **Duration**: 3 days
* **Scope**:
  + Limited group of users (internal testers, developers, and a small set of selected customers).
  + Basic functionalities: Loyalty points earning, redemption, and wallet balance view.
  + Identify critical defects in core features like earning points, displaying balances, and redeeming points.
* **Goals**:
  + Ensure that the primary features work without crashes or major issues.
  + Collect feedback on usability and identify any immediate UX issues.

#### **Phase 2: Expanded Group (Beta Testing)**

* **Duration**: 1 week
* **Scope**:
  + A larger group of external customers, including users from key regions (Saudi Arabia, UAE).
  + Test cross-platform integration, including mobile (iOS, Android), web, and API.
  + Focus on edge cases and performance (e.g., redeeming large amounts of points, using wallet in multiple orders).
  + Testing different payment combinations (Wallet + Credit Card).
* **Goals**:
  + Identify issues with the combination of Wallet and Loyalty Points integration.
  + Ensure functionality in different network conditions and browser configurations.
  + Check for bugs in regional features, such as VAT handling and currency support.

#### **Phase 3: Full Release (Production)**

* **Duration**: 2 days
* **Scope**:
  + Full rollout to all users, including existing and new customers.
  + Monitor system performance and user feedback.
  + Ensure all systems are operating correctly in production and no major issues arise.
* **Goals**:
  + Confirm the system can handle the full user base.
  + Continuously monitor for issues and gather feedback for future improvements.
  + Provide immediate support for any issues that arise post-release.

# Problem Tracking and Test Tracking Procedures

**Defect Reporting Procedure:**

During the test execution:

- Any deviation from expected behaviour by the application will be noted. If it can't be reported as a defect, it'd be reported as an observation/issue or posed as a question.

- Any usability issues will also be reported.

- After discovery of a defect, it will be retested to verify reproducibility of the defect. Screenshots with steps to reproduce are documented.

- Every day, at the end of the test execution, defects encountered will be sent along with the observations.

**Note:**

* Defects will be documented in a word document.
* Test cases will be documented in an excel document.

# Roles/Responsibilities

|  |  |  |
| --- | --- | --- |
| Name | Role | Responsibilities |
| Aymen Wafa | Test Lead | * Create the Test Plan and get the client signoffs * Interact with the application, create and execute the test cases * Report defects * Coordinate the test execution. Verify validity of the defects being reported. * Submit daily issue updates and summary defect reports to the client. * Attend any meeting with client. |
| Mohamed Mostafa | Senior Test Engineer | * Interact with the application * Create and Execute the Test cases. * Report defects |

# Test Schedule

Following is the test schedule planned for the project:

|  |  |
| --- | --- |
| Task | Time Duration |
| * **Creating Test Plan** | September 18th, 2025 |
| * **Test Case Creation ('Loyalty Points' and 'Wallet' functionality)** | September 19th, 2025 |
| * **Test Case Creation ('Mobile App' and 'Web Application' functionality)** | September 20th, 2025 |
| * **Test Case Creation ('API Testing' and 'Integration' functionality)** | September 21st, 2025 |
| * **Test Case Execution** | September 22nd, 2025 |
| * **Test Case Execution** | September 23rd, 2025 |
| * **Summary Reports Submission** | September 24th, 2025 |

# Test Deliverables

The following are to be delivered to the client:

|  |  |  |  |
| --- | --- | --- | --- |
| Deliverables | Description | Responsible Owner | Target Completion Date |
| Test Plan | Details on the scope of the Project, test strategy, test schedule, resource requirements, test deliverables and schedule | Mohamed Mostafa | September 18th, 2025 |
| Functional Test Cases | Test Cases created for the scope defined | Mohamed Mostafa | September 21st, 2025 |
| Defect Reports | Detailed description of the defects identified along with screenshots and steps to reproduce on a daily basis. | Mohamed Mostafa | September 22nd, 2025 |
| Summary Reports | Summary Reports –  Bugs by Bug#,  Bugs by Functional Area and  Bugs by Priority | Mohamed Mostafa | September 24th, 2025 |

# Pricing

Will be shared by Project Manager separately.