

Scope of Work Document for YAAY365 Enhancements

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1. Rewards Module Feature Specification

1. Overview

1.1 Purpose

To establish a flexible, data-driven rewards engine that:

- Converts customer activity into loyalty points using a clear monetary formula.
- Dynamically issues tier-based coupons and giveaways.
- Sends real-time notifications on tier advancements.

1.2 Scope

- Point validation framework with configurable exchange rates.
- Tier-based rewards (e.g., Green → Gold → Platinum).
- Dashboard controls for exchange rates, tier thresholds, and notification rules.
- In-app and push notifications for reward events.

2. Functional Requirements

2.1 Point Validation Framework

- **Base Rate:** Default is 25 points = 1 KES (configurable).
- **Dynamic Awarding Formula:**
 - $\text{Points awarded} = (\text{Deal Value} \times \text{yaay Commission} \times \text{Discount\%}) \times (\text{Points per KES})$.

2.2 Tier Reward Structure

- **Tier Definitions** (configurable):
 - Green: 0–900 points in the last 9 months.
 - Gold: ≥ 900 points in the last 9 months.
 - Platinum (optional): $\geq 2,000$ points in the last 9 months.

2.3 Notifications

- In-app and push alerts (FCM).

2.4 Dashboard Metrics & UI

- Metrics for points settings and distribution.

3. User Journey

1. The user redeems a deal.
2. The system calculates savings and awards points.
3. If points exceed thresholds, the user is upgraded to a higher tier and notified.

4. Story Ticket

- **Project:** REWARDS
- **Issue Type:** Story
- **Summary:** Implement Points Validation & Tiered Rewards with Dynamic Configuration.

5. Implementation

Phases

- **Architecture & Planning:** Finalize data model and logic flow.
 - **Design Screens:** Design the Screen to start Development.
 - **Backend Development:** Reward calculation and logging.
 - **Dashboard UI:** Dashboard for settings.
 - **Notification Integration:** Alerts and push notifications.
 - **Testing & QA:** Unit and integration testing.
 - **Deployment & Monitoring:** CI/CD rollout and performance tracking.
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2. Multitenant System Feature Specification

1. Overview

1.1 Purpose

To allow our platform to onboard partners with multiple branches under a single account, each with isolated data views, access controls, and centralized management.

1.2 Scope

- Support one partner account managing multiple satellite branches.
- Define and enforce access policies per user role and branch.
- Provide a Dashboard for branch lifecycle and monitoring.
- Enable granular role assignment (e.g., Branch Manager, Regional Admin, Read-Only).

2. Functional Requirements

2.1 Multitenancy Core

- **Data Isolation:** All transactional and analytics data scoped by branch_id.
- **Shared Resources:** Common catalog, deals, and global settings at partner level.
- **Branch Lifecycle:** Create, suspend, archive, and delete branch records.

2.2 Access Level Policy

- **Role Definitions:**
 - Partner Admin: Full visibility/control over all branches.
 - Regional Manager: Access only to branches tagged to their region.
 - Branch Manager: CRUD within assigned branch.
 - Read-Only: View-only across assigned branches.
- **Permission Matrix:** CRUD rights on Deals, Users, Reports, Settings.

2.3 Admin Terminal

- **Branch List View:** Table with status, last activity, active users count.
- **Branch Detail Panel:** Key metrics (transactions, redemptions, errors), alerts, logs.
- **Bulk Actions:** Enable/disable branches, assign region tags, export configurations.

2.4 Role Assignment Workflow

- **Invite & Assign:** Partner Admin invites users via email, selects branches & roles.
- **Self-Service:** Users switch between permitted branches in the UI.
- **Audit Trail:** Record every role change with timestamp, actor, and previous values.

3. User Journey

1. Partner Admin logs in to Admin Terminal.
2. Clicks Create Branch and enters branch details.
3. System persists branch records and initializes data partitions.
4. Partner Admin navigates to User Management and invites users.
5. The system sends invitation emails and logs the event.
6. Branch Manager accepts the invite and sees a dashboard scoped to their branch.

4. Epic Ticket

- **Project:** CORE
- **Issue Type:** Epic
- **Summary:** Implement Multitenant Support with Branch Management & Role-Based Access.

5. Implementation

Phases

- **Architecture & Planning:** Finalize data model and RBAC matrix.
 - **Design Screens:** Design the Screen to start Development.
 - **Core Backend Development:** Branch CRUD APIs and data isolation layers.
 - **RBAC & Invite Flow:** Implement RBAC middleware and invite workflow.
 - **Admin Terminal UI:** Create Branch List, Detail panels, and Bulk actions UI.
 - **Testing & QA:** Unit and integration tests for security and permissions validation.
 - **Deployment & Monitoring:** CI/CD rollout and monitoring setup.
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3. Redemption Enhancement for Partner and Admin Portal on YAAAY365

1. Project Overview

This proposal outlines the scope, deliverables, and implementation plan for creating a dedicated Redemption Summary page for both the Partner and Admin portals on the YAAAY365 platform. This enhancement aims to provide partners with visibility into deal redemptions specific to their offers while enabling admins to manage and review redemption data across all partners effectively.

2. Objectives

- Develop a dedicated Redemption Summary page for partners to view redemption details specific to their deals.
- Implement a notification system for partners via a bell icon in the Partner portal to alert them of successful redemptions.
- Create an Admin interface to view the complete redemption history across all partners, with advanced search capabilities.

3. Scope of Work & Deliverables

Phase 1: Partner Portal Enhancements

- **Redemption Summary Page:**
 - Create a dedicated page for partners that displays:
 - Customer name who redeemed the deal.
 - Category of redemption: Amount or Quantity.
 - Title of the deal redeemed.
 - Ensure this page is accessible only to the respective partner, with visibility limited to their own redemption data.
- **Notification System:**
 - Implement a bell icon notification on the Partner portal.
 - The icon will alert partners whenever a customer successfully redeems a deal.
 - Clicking on the notification will redirect the partner to the dedicated Redemption Summary page.

Phase 2: Admin Portal Enhancements

- **Integration for Superset:**

Integrate Apache Superset into the admin portal to provide advanced analytics and business intelligence (BI) capabilities. This integration will enable dynamic reporting and in-depth insights into redemption data while maintaining a streamlined dashboard for essential administrative functions.
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Conclusion

The proposed enhancements for the YAA365 platform, including the Rewards Module, Multitenant System, and Admin Portal improvements, are designed to significantly elevate the functionality and user experience of our system.

By implementing a robust rewards engine, we will incentivize customer engagement through transparent and dynamic loyalty programs, fostering increased customer retention and satisfaction. The integration of a multitenant architecture will streamline operations for partners with multiple branches, allowing for efficient management and data isolation while maintaining centralized control.

Furthermore, the advancements in the Admin Portal, particularly the comprehensive redemption history and the integration of Apache Superset for analytics, will empower administrators with the tools needed for effective decision-making and strategic insights. This will facilitate better management of redemption data, improve reporting capabilities, and ultimately enhance the operational efficiency of the platform.

In conclusion, these enhancements will not only improve the overall user experience for both partners and customers but also drive growth and profitability for the YAA365 platform, positioning it as a leader in the market for rewards and loyalty solutions. Implementing these features will yield significant benefits, including improved data visibility, streamlined partner management, and enhanced customer loyalty, all of which contribute to the long-term success of YAA365.



Total Estimated Hours for All Enhancements

- **Rewards Module:** 64 hours (approximately 8 days)
- **Multitenant System:** 400 hours (approximately 10 weeks)
- **Enhancement for Partner and Admin Portal:** 50 hours (approximately 6 days)

Total: 514 Working Hours
