Software Requirements Specification

For

Paddy Project

Version 4.0 Review

Prepared by Vishali

Pinesphere Solutions

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Revision History

Name	Date	Reason For Changes	Version
Admin Module	26 Feb 25	Client Added few requirements	Version 2
Admin & Customer panel	04 Mar 25	Client changed the requirements	Version 3
User Swap	06 Mar 25	User Swapping and Subscription	Version 4

Software Requirements Specification (SRS) Document for Paddy Project

1. Introduction

1.1 Purpose
The purpose of this document is to define the functional, non-functional, and system requirements for Paddy. The system aims to streamline customer onboarding, order management, inventory tracking, payments, and invoicing while ensuring a seamless user experience.

1.2 Scope
The system will be a web-based platform with three types of users: Super Admin, Admin, and Customer. The system will facilitate:

- Super Admin user management

- Admin user management

- Customer onboarding

- Order management

- Payment processing

- Invoice generation

- Notifications and reporting

- Subscription management

The system will provide real-time updates to ensure smooth business operations. Super Admin users will manage Admin accounts and subscription plans. Admin users will handle customer management, orders, and payments, while customers will have access to their order status and payment history.

1.3 Definitions and Acronyms
- **Super Admin**: The highest-level system user who manages Admin users and subscription plans.

- **Admin**: The system user who manages customers, orders, and payments but cannot delete users.

- **Customer**: End users who place and track orders, update unloading status, and make payments.

- **GST**: Goods and Services Tax.

- **PPC**: Production Planning and Control.

2. System Overview

The system will have eight core modules:

1. Super Admin Management

2. Admin Management

3. Customer Onboarding

4. Order Management

5. Customer Portal

6. Invoice Generation

7. Notifications

8. Reports

Each module has specific functionalities to ensure smooth workflow and real-time processing.

3. Functional Requirements

3.1 Module 1: Super Admin Management

3.1.1 Overview

This module manages Super Admin activities, including Admin user creation and subscription control. The super admin has 200 customer users and 250 admin users under them directly.

3.1.2 Functionalities

- **FR1.1**: Create Admin users.

- **FR1.2**: System Auto Assign up to 200 customers per Admin user.

- **FR1.3**: When Admin reaches the customer limit, they can submit a subscription upgrade request.

- **FR1.4**: The Super Admin sets the upgrade amount and submits the request.

- **FR1.5**: Once payment is made, the requested number of extra customers is enabled.

- **FR1.6**: Enable subscription tracking for each Admin user.

- **FR1.7**: Receive notifications when an Admin submits a subscription plan upgrade request.

- **FR1.8**: Enable payment options for Admin users for subscription upgrades.

- **FR1.9:** The super admin can update the category of paddy and rice, only those data will be visible in drop down of Paddy and Rice form in the category field.

3.2 Module 2: Admin Management

3.2.1 Overview

This module manages Admin activities, customer onboarding, and payments. The admin has 50 customer users under each admin.

3.2.2 Functionalities

- FR2.1: Registration & Subscription

  o Admin can log in and subscribe to access the portal.
  o Subscription form includes:
    – Duration (months)
    – Payment processing
  o Successful payment grants access.
  o Order history is stored separately.

- **FR2.2**: Admin users have access to the following modules:

  o Customer Onboarding - (50 users)

  o Order Management

  o Payment Tracking

  o Reports

- **FR2.3**: Admin cannot delete customers once created.

- **FR2.4**: Before placing an order, Admin must pay a standard fee of Rs.10.

- **FR2.5**: All other functionalities remain unchanged.

Constrains:

- The admin can create only 50 customer users
- Once the user has been created it cannot be deleted by admin

3.3 Module 3: Customer Onboarding

3.3.1 Overview

Admin can onboard customers by filling out a registration form.

3.3.2 Functionalities

- **FR3.1**: Customer onboarding form fields:

  o Name (Required)

  o Phone Number (Required, used as the username)

  o Address (Required)

  o Company Name (Required)

  o GST (Optional, only applicable for business customers)

  o Password Setup (Manual Set up)

- **FR3.4**: Send a welcome email/SMS notification to new customers upon successful registration.

3.4 Module 4: Order Management

3.4.1 Overview

Admin can create, view, and manage customer orders efficiently. This order can be in 3 categories, they are **Paddy Form, Rice Form and Shop Form**.

3.4.2 Functionalities

- **FR4.1**: Add and update paddy / rice varieties to inventory by super admin

- **FR4.2**: Place orders (Paddy & Rice) by selecting:

    o   Customer name

    o   Product - Category (dropdown selection of rice varieties)

    o   Quantity (tons/bundles)

    o   Order date (auto-fetched system date)

    o   Price per unit (entered manually)

    o   GST or non-GST billing (dropdown selection)

    o   Lorry number

    o   Driver name

    o   Delivery date (optional, can be updated later)

- **FR4.3**: Shop Billing
    o   Name of the customer (select from contact)

    o   Phone number (Auto Fetch)

    o   Address (Auto Fetch)

    o   Product Name | Batch | Expiry

    o   Qty - Manual Entry

    o   Rate - Manual Entry

    o   Per - Manual Entry

    o   Amount - Manual Entry

    o   Total: Auto calculate

- **FR4.3**: Order summary stored in a database and accessible in reports.

- **FR4.4**: Ability to edit order details before finalizing.

- **FR4.5**: Cancel or modify orders with proper logging of changes (Remark)

3.5 Module 5: Customer Portal

3.5.1 Overview

Customers can view orders, update unloading status, and make payments through an intuitive dashboard. A one-month free trial is available for mill users (customers), and from the next month onwards, the subscription fee is Rs. 100 per month.

3.5.2 Functionalities

- **FR5.1**: Registration & Subscription

  o Customer can log in and subscribe to access the portal.
  o Subscription form includes:
    - Duration (months)
    - Payment processing
  o Successful payment grants access.
  o Order history is stored separately.

- **FR5.2:** Customers can log in and view their order details with status updates.

- **FR5.3**: Update unloading status for orders once the product is received.

- **FR5.4**: Make payments through UPI, card, or bank deposit.

- **FR5.5**: If choosing bank deposit, users must enter the reference number and deposit date for tracking.

- **FR5.6**: Display remaining balance per order dynamically based on payments made.

- **FR5.7**: Generate invoices automatically upon successful payment.

- **FR5.8**: Customers can download past invoices for their records.

3.6 Module 6: Invoice Generation

3.6.1 Overview

Invoices will be auto generated based on order details and payment status.

3.6.2 Functionalities

- **FR6.1**: Invoice format will be predefined and provided by the client.

- **FR6.2**: Invoice numbers will be sequential and auto generated with a combination of system date and unique order ID.

- **FR6.3**: Admin can choose between GST and Non-GST invoices before finalizing.

- **FR6.4**: Downloadable invoices for both Admin and Customers.

3.7 Module 7: Notifications

3.7.1 Overview
The system will send real-time notifications for key events to keep all stakeholders informed.

3.7.2 Functionalities
- **FR7.1**: Notify customers in the portal upon order placement with details.

- **FR7.2**: Notify Admin when the unloading status is updated by the customer.

- **FR7.3**: Notify Admin when a payment is made, including payment mode and reference details.

- **FR7.5**: Notify Super Admin when an Admin submits a subscription upgrade request.

3.8 Module 8: Reports
3.8.1 Overview
Reports will be available only for Admin and Super Admin users for performance tracking and decision-making.

3.8.2 Functionalities
- **FR8.1**: Generate monthly reports containing:

  o Order details with payment status.

  o Customer-wise transaction history.

- **FR8.2**: Apply filters to view specific data.

- **FR8.3**: Export filtered reports to Excel for further analysis.

3.9 Module 9: Multilingual Support
3.9.1 Overview
This project should support multilingual functionality with Tamil and English language options.

3.9.2 Functionalities
- **FR9.1**: Users can switch between Tamil and English languages dynamically.

- **FR9.2**: All UI elements, labels, and notifications should be available in both languages.

3.10 Module 10: User Swap
3.10.1 Overview
This project should support user swap method from Admin to Customer and Vise versa.

3.10.2 Functionalities
- **FR10.1**: If the user Phone Number matches and they have subscription for Admin or Customer and they wanted to purchase the other user role then, they need to s

- **FR10.2**: All UI elements, labels, and notifications should be available in both languages.

4. Flow Chart Diagram
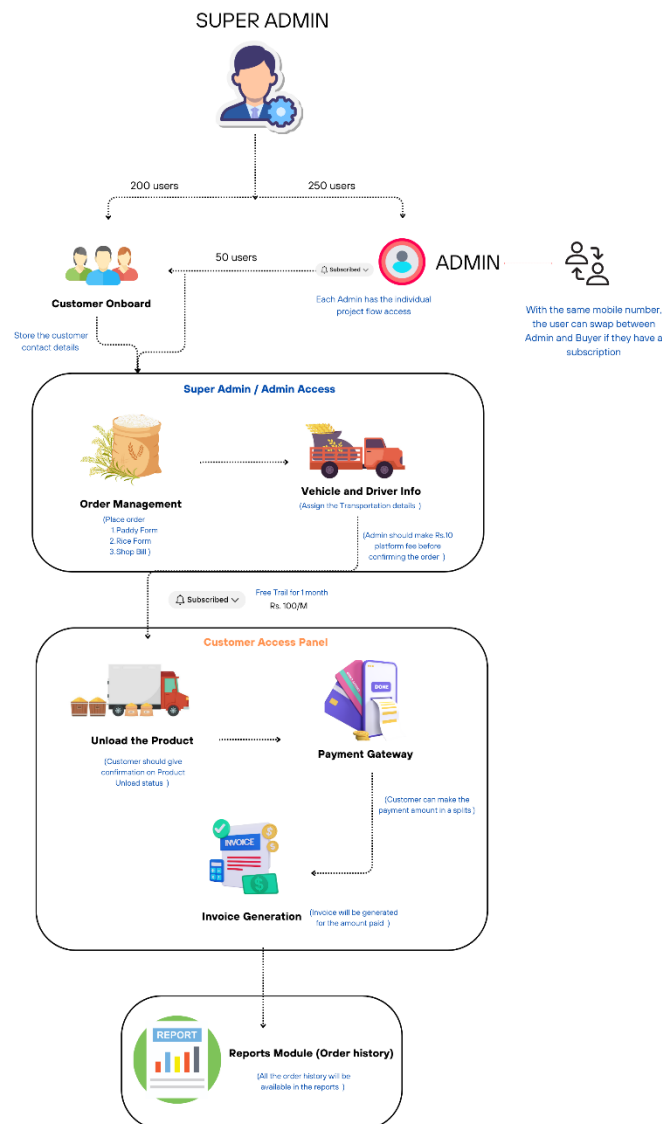
5. Conclusion

This document outlines the functional requirements necessary for the development of Paddy. The system is designed to enhance operational efficiency, streamline user management, and ensure seamless order processing. By implementing these modules, Paddy will achieve better customer engagement, accurate invoicing, and real-time business insights. Developers and stakeholders should adhere to this document to ensure a successful implementation.