Functional Requirement Document (FRD)

1. Project Details

1.1 Project Title: Poultry Feed Management Software

1.2 Modules: User, Admin, Sales Manager, Sales Authorizer, Plant Head, Accountant, Salesman

1.3 Prepared By: TTC Robotronics Pvt. Ltd

1.4 Date: 25-06-2025

2. User Role: Customer / User (Mobile Application)

2.1 Objective

To allow end-users (customers) to place feed orders, make payments (advance & due), and track their payment and order history through an intuitive mobile application.

2.2 Login / Signup Screen

Purpose: Allow new users to register and existing users to log in.

Fields & Components:

2.2.1 Mobile Number (Input field)

2.2.2 OTP Verification (Triggered after mobile entry)

2.2.3 Submit Button

2.2.4 New User? Sign Up link

2.2.5 T&C and Privacy checkbox (optional)

Functional Behavior:

2.2.6 OTP is sent after entering a valid mobile number

2.2.7 On successful OTP verification, redirect to Home Page

2.3 Home Page / Dashboard

Purpose: Display overview and navigation to key features

Components:

2.3.1 Button: "Place New Order"

2.3.2 Button: "Make Due Payment"

2.3.3 Summary Cards:

->- Total Orders Placed

->- Total Advance Paid

->- Total Due Pending

Functional Behavior:

2.3.4 "Place New Order" opens Order screen

2.3.5 "Make Due Payment" opens Due Payment section

2.4 Place New Order Screen

Purpose: Capture and process new feed purchase orders

Fields & Components:

2.4.1 Party Selection (Dropdown)

2.4.2 Product Type (Dropdown)

2.4.3 Item (Dropdown based on Product)

2.4.4 Quantity (Numeric input)

2.4.5 Auto-calculated Field: Total Amount

2.4.6 Button: "Proceed to Advance Payment"

Functional Behavior:

2.4.7 Total is calculated as per product, item, and quantity

2.4.8 Validation: All fields must be filled before proceeding

2.5 Advance Payment Screen

Purpose: Allow user to pay a part of the order total upfront

Fields & Components:

2.5.1 Advance Amount (Input)

2.5.2 Remaining Due Amount (Auto-calculated)

2.5.3 Select Due Payment Date (Calendar Picker)

2.5.4 Notes (Optional Text Field)

2.5.5 Payment Mode (UPI / Cash / Bank Transfer)

2.5.6 Button: "Pay Now"

Functional Behavior:

2.5.7 After payment, partial invoice generated

2.5.8 Data saved: Advance paid, due date, note, mode, etc.

2.5.9 Dashboard stats updated

2.6 Order Summary & Status Tracking

Purpose: Keep user informed on order progress and payments

Components:

2.6.1 Order ID

2.6.2 Advance Paid

2.6.3 Due Amount

2.6.4 Due Date

2.6.5 Payment Status

2.6.6 Order Status Sequence:

->Received -> Processing -> Proceed -> Confirmed -> Dispatched -> On The Way -> Delivered

Functional Behavior:

2.6.7 Real-time updates from backend

2.6.8 Visual status with progress bar or badges

2.7 Make Due Payment Screen

Purpose: Complete pending payments for selected orders

Flow:

2.7.1 Show order list with due amounts

2.7.2 Show Order ID, Remaining Due Amount, Notes (if any)

2.7.3 Select Payment Mode

2.7.4 Button: "Make Payment"

After Payment:

2.7.5 Full invoice generated

2.7.6 Status updated to ->Paid->

2.7.7 Home summary reflects new values

2.8 Invoice Screen

Purpose: Show/download/share invoice after complete payment

Fields:

2.8.1 Invoice Number

2.8.2 Order ID

2.8.3 Product/Item Details

2.8.4 Quantity & Amount

2.8.5 Advance Paid, Final Payment, Total

2.8.6 Payment Method

2.8.7 Button: Download / Share Invoice

2.9 Validations & Notes

2.9.1 Quantity must be > 0

2.9.2 Advance amount cannot exceed total

2.9.3 Due date is required to proceed

2.9.4 User must clear previous dues (optional)

2.10 UI/UX Design Suggestions

2.10.1 Clean card layout for summary

2.10.2 Highlight unpaid dues in red

2.10.3 Disable past dates in due date picker

2.10.4 Floating buttons for key actions

2.10.5 Simple printable invoice layout

2.11 Notifications / Alerts

2.11.1 Order Placed

2.11.2 Advance Paid

2.11.3 Due Reminder

2.11.4 Full Payment Completed

2.11.5 Order Status Updates

3. User Role: Admin

3.1 Objective

Admin manages products, employees, reports, and system-wide operations

3.2 Admin Login

3.2.1 Email & Password

3.2.2 2FA or OTP (optional)

3.3 Dashboard

3.3.1 Total Sales

3.3.2 Advance Collected

3.3.3 Due Amount

3.3.4 Total Employees

3.3.5 Orders

3.3.6 Graphs -> Weekly Sales, Advance vs Due, Rate Chart

3.4 Product Management

3.4.1 Add/Edit/Delete Product

3.4.2 Weekly Rate Update Form

3.4.3 Comparison Table & Chart

3.5 Employee Management

3.5.1 Add/Edit/Delete Employee

3.5.2 Assign Parties Dropdown

3.5.3 Logic for reassignment on resignation

3.6 Party Master

3.6.1 View/Assign/Track Party

3.7 Reports Module

3.7.1 Sales, Employee, Advance, Due

3.7.2 Export options: Excel / PDF

3.8 Notifications

3.8.1 Weekly rate update

3.8.2 Inactive employees

3.8.3 Follow-up alerts

3.9 Settings & Security

3.9.1 Password change, 2FA

3.9.2 Role-based Access

3.9.3 Data Backup

3.10 UI/UX Suggestions

3.10.1 Sidebar layout

3.10.2 Visual analytics

3.10.3 Tabbed forms

3.10.4 Color-coded charts

4. Sales Manager

4.1 Objective: Review & forward orders

4.2 Functional Flow:

View new orders

Validate

Forward to Sales Authorizer

Lock after forwarding

5. Sales Authorizer

5.1 Objective: Approve and assign warehouse

5.2 Functional Flow:

Review forwarded orders

Approve

Assign warehouse

5.3 Warehouse Management:

Add warehouse -> Goes to Admin -> On approval becomes visible

6. Plant Head

6.1 Objective: Track production & manage dispatch

6.2 Daily Production Entry:

Product, Quantity, Date (auto)

View production chart

6.3 Dispatch Process:

Select order

Generate Dispatch Slip

Mark Processed

6.4 Transport Entry:

Add vehicle info

Upload photo

7. Accountant

7.1 Objective: Verify and invoice pending balance

7.2 Functional Flow:

View dispatched orders

Generate invoice for due

Share invoice -> Status: Dispatched

8. Salesman

8.1 Objective: Collect & update balance payment

8.2 Functional Flow:

View due order list

Enter amount, select payment mode

Submit

Mark as Paid

8.3 Dashboard Reports:

Sales, Dispatch, Due

Charts: Production vs Dispatch, Sales Trends