

Poultry Cloud Management System

A Cross-Platform Farm & Business Management Platform

Document Overview

This document presents a complete feature and technical case study of the Poultry Cloud Management System — covering business operations, flock, feed, medicine, vaccination, egg production, sales, finance, and reporting modules, along with the underlying mobile application architecture.

Platform: React Native + TypeScript | **Type:** Mobile SaaS Application

Feature & Technical Documentation

The following pages summarize the complete feature set, API surface, and key technical decisions of the Poultry Cloud Management System, organized by functional module. A small number of exact duplicate lines present in the source document have been removed for clarity; the details are provided separately.

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Business & Organization Management

- ◆ **Company Registration** — Create a new company during the initial signup process.
- ◆ **Business Unit CRUD** — Create, view, update, and delete farms or operational locations.
- ◆ **Active Business Unit Switching** — Switch the current business unit from the dashboard or profile dropdown.
- ◆ **Dashboard Counts** — View aggregate operation counts scoped to the selected business unit.
- ◆ **Multi-Business Context** — Automatically scope all domain data to the currently active business unit.

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User & Identity Management

- ◆ **User Registration and Login** — Authenticate users using email and company name credentials.
- ◆ **Email Verification** — Confirm email addresses through an OTP-based verification workflow.
- ◆ **Forgot Company Name** — Retrieve a forgotten company name by email lookup.
- ◆ **Password Reset** — Reset account passwords through a secure forgot-password flow.
- ◆ **User Creation** — Create new user accounts with predefined role assignments.
- ◆ **User Directory** — Search, filter, and paginate through the complete user list.
- ◆ **Status Management** — Activate or deactivate user accounts.
- ◆ **Admin Password Reset** — Reset passwords for other users by authorized administrators.
- ◆ **User Deletion** — Remove user accounts from the system.
- ◆ **Farm and Role Assignment** — Assign specific farms and roles to each user.
- ◆ **Profile Management** — View and update individual user profile information.

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Employee Management

- ◆ **Employee Directory** — Search, filter, and paginate the full employee list.
- ◆ **Employee Onboarding** — Add employees with name, employment type, joining date, salary, and optional end date.
- ◆ **Employee Profile Update** — Edit employee profile and employment details.
- ◆ **Employee Deletion** — Remove employee records from the system.
- ◆ **Employee Status Management** — Toggle employee active or inactive status.
- ◆ **Bulk Salary Generation** — Generate bulk salary expense entries for multiple employees.
- ◆ **Temporary Worker Tracking** — Track temporary or contract workers separately from permanent staff.
- ◆ **Employee Type Lookup** — Retrieve employee type classifications from master data.

Customer Management

- ◆ **Customer Directory** — Search, filter, and paginate the customer list.
- ◆ **Customer Creation** — Add customers with contact details, classification type, opening balance, and credit flag.
- ◆ **Customer Profile Update** — Edit customer profiles, balance information, and contact persons.
- ◆ **Customer Deletion** — Remove customer records from the system.
- ◆ **Customer Status Management** — Activate or deactivate customer accounts.
- ◆ **Customer Type Lookup** — Retrieve customer type classifications from master data.
- ◆ **Customer Notes** — Record contact persons and notes for each customer.

Supplier Management

- ◆ **Supplier Directory** — Search, filter, and paginate the supplier list.
- ◆ **Supplier Creation** — Add suppliers with contact details, classification type, opening balance, and credit flag.
- ◆ **Supplier Profile Update** — Edit supplier profiles, balance information, and contact persons.
- ◆ **Supplier Deletion** — Remove supplier records from the system.
- ◆ **Supplier Status Management** — Activate or deactivate supplier accounts.
- ◆ **Supplier Type Lookup** — Retrieve supplier type classifications from master data.
- ◆ **Supplier Notes** — Record contact persons and notes for each supplier.

Business Unit Management

- ◆ **Business Unit Registration** — Register new farms or locations with name, location, and business type.
- ◆ **Business Unit Listing** — View a complete list of all available business units.
- ◆ **Business Unit Update** — Update business unit name and location details.
- ◆ **Business Unit Deletion** — Remove business units that are no longer active.
- ◆ **Default Business Unit Selection** — Automatically select the first available business unit on first launch.
- ◆ **Business Unit Persistence** — Persist the selected business unit across app sessions.

Flock Management

- ◆ **Flock Directory** — Search, filter, and paginate the flock inventory by supplier, flock type, or ended status.
- ◆ **Flock Creation** — Add new flocks with breed, quantity, price, supplier, shed assignment, arrival date, date of birth, and configuration flags.
- ◆ **Flock Update** — Edit flock details and configurations.
- ◆ **Flock Deletion** — Remove flock records from the system.

- ◆ **Stock Monitoring** — Monitor current stock levels for each flock.
- ◆ **Hospitality Logging** — Log hospitality and guest entries linked to flocks.
- ◆ **Shed Allocation** — Allocate and manage shed assignments for flocks.
- ◆ **Profit and Expense Tracking** — Track flock-specific expenses and calculate profitability.
- ◆ **Health Records** — Retrieve flock health records and status summaries.
- ◆ **Flock Analytics** — Visualize flock performance through weekly arrive summaries, total sales, and monthly growth graphs.

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Feed Management

- ◆ **Feed Purchase History** — Search, filter, and paginate feed purchase records.
- ◆ **Feed Purchase Entry** — Record feed purchases with supplier, quantity, price, expiry date, flock association, and payment status.
- ◆ **Feed Consumption Logging** — Log manual feed consumption entries per flock.
- ◆ **Automatic Feed Consumption** — Auto-generate feed consumption records.
- ◆ **Feed Stock View** — View calculated feed stock levels based on purchased and consumed quantities.
- ◆ **Feed Type Lookup** — Retrieve feed type classifications from master data.
- ◆ **Feed Item Lookup** — Retrieve feed item listings from master data.

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Medicine Management

- ◆ **Medicine Item Directory** — Search, filter, and paginate the medicine item master list.
- ◆ **Medicine Item Creation** — Add new medicine items with name, type, and descriptive details.
- ◆ **Medicine Item Deletion** — Remove obsolete medicine items from the master list.
- ◆ **Medicine Purchase Entry** — Record medicine purchase and inventory entries.
- ◆ **Medicine Usage Tracking** — Track medicine usage and administration per flock.
- ◆ **Medicine Dropdown Lookup** — Retrieve medicine items for selection.

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Vaccination Management

- ◆ **Vaccination Directory** — Search, filter, and paginate vaccination administration records.
- ◆ **Vaccination Entry** — Add vaccination records with vaccine selection, date, quantity, price, supplier, and clinical notes.
- ◆ **Vaccination Update** — Modify existing vaccination records.
- ◆ **Vaccination Deletion** — Remove vaccination records from the system.
- ◆ **Vaccination Stock View** — View vaccination stock levels showing purchased, scheduled, and available quantities.
- ◆ **Schedule Creation** — Create vaccination schedules for flocks with vaccine, date, quantity, and status.
- ◆ **Schedule Update** — Edit vaccination schedule details.
- ◆ **Schedule Deletion** — Cancel and remove vaccination schedules.
- ◆ **Schedule Status Update** — Mark scheduled vaccinations as administered or pending.

- ◆ **Vaccine and Supplier Lookup** — Retrieve vaccine and supplier master data for scheduling workflows.

1 1 Egg Production Management

- ◆ **Production Directory** — Search, filter, and paginate egg production records.
- ◆ **Production Entry** — Log daily egg production per flock with tray, patti, individual egg counts, broken eggs, and unit type.
- ◆ **Production Update** — Edit existing egg production entries.
- ◆ **Production Deletion** — Remove egg production records from the system.
- ◆ **Egg Stock View** — View current egg stock levels broken down by tray, patti, and piece units.
- ◆ **Egg Unit Lookup** — Retrieve egg unit classifications by product type.
- ◆ **Production Analytics** — Visualize egg production trends through dedicated graphs.

1 2 Mortality Management

- ◆ **Mortality Recording** — Document mortality events per flock with quantity, occurrence date, and assigned health status.
- ◆ **Remaining Quantity View** — View remaining flock quantity after mortality deductions.
- ◆ **Mortality Analytics** — Visualize mortality trends within flock analytical graphs.
- ◆ **Feed Conversion Ratio** — Calculate FCR using current weight and feed consumption data.

1 3 Inventory Management

- ◆ **Product Master Lookup** — Retrieve product master data for sales categorization.
- ◆ **Unit Management** — Manage measurement units for different product categories.
- ◆ **Expiry Tracking** — Track expiry dates for feed and medicine inventory items.

1 4 Purchase Management

- ◆ **Payment Status Tracking** — Monitor payment status for purchase transactions.
- ◆ **Supplier Linkage** — Link purchases to supplier accounts for payables tracking.
- ◆ **Expense Generation** — Generate expense records directly from purchase transactions.

1 5 Sales Management

- ◆ **Flock Sales** — Record sales of live flocks to customers.
- ◆ **Flock Return Sales** — Process return sales for previously sold flocks.
- ◆ **Egg Sales** — Record egg sales transactions to customers.
- ◆ **Egg Return Sales** — Process return sales for previously sold eggs.
- ◆ **Miscellaneous Sales** — Record sales of miscellaneous products and inventory items.
- ◆ **Miscellaneous Return Sales** — Process return sales for miscellaneous products.

◆ **Sales Search and Filter** — Search and filter sales records by customer, flock, date range, and sale type.

◆ **Customer Linkage** — Link all sales to customer accounts for receivables tracking.

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Financial Management

◆ **Chart of Accounts** — Create and maintain account heads for financial categorization.

◆ **Parent Accounts** — Organize accounts into hierarchical structures with parent account support.

◆ **Voucher Entry** — Create financial vouchers with debit and credit account assignments.

◆ **Voucher Types** — Support multiple voucher types for different financial operations.

◆ **Ledger View** — View ledger entries with calculated running balances and opening balances.

◆ **Payables Monitoring** — View amounts owed to suppliers with voucher counts and aging details.

◆ **Receivables Monitoring** — View amounts owed by customers with voucher counts and aging details.

◆ **Expense Logging** — Log operational expenses filtered by type, date range, and business unit.

◆ **Operational Expense Tracking** — Track utility, transport, maintenance, and administration expenses.

◆ **Fixed Assets** — Maintain a fixed assets register.

◆ **Investor Management** — Manage investor profiles and account balances.

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Dashboard & Analytics

◆ **Farm Summary Cards** — Display visual farm cards showing employee counts, user counts, and location details.

◆ **Activity Feed** — Present a chronological activity feed of recent operational events.

◆ **Farm Search and Filter** — Search and filter farm cards by name, location, and business type.

◆ **Dashboard Refresh** — Refresh dashboard data through pull-to-refresh gesture.

◆ **Quick Actions** — Access creation modals for users, employees, and business units directly from the dashboard.

◆ **Flock Weekly Arrival Analytics** — Analyze flock weekly arrival summaries through graphical representations.

◆ **Total Sales Analytics** — Review total sales performance through dedicated graphs.

◆ **Flock Monthly Growth Analytics** — Track flock monthly growth trends through analytical charts.

◆ **Egg Production Analytics** — Monitor egg production percentages and trends through graphical dashboards.

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Reports & Export

◆ **PDF Reports** — Generate PDF reports from server-provided data.

◆ **Egg Production Excel Export** — Export egg production records to Excel format.

◆ **Egg Stock Excel Export** — Export egg stock summaries to Excel format.

◆ **Flock Excel Export** — Export flock records and analytics to Excel format.

◆ **File Storage** — Save exported report files to local device storage.

◆ **File Viewer** — Open and view exported files using the native file viewer.

- ◆ **Success Toasts** — Display success toast messages for confirmed operations.
- ◆ **Error Toasts** — Display error toast messages for failed operations.
- ◆ **HTTP Error Mapping** — Map HTTP error status codes to user-friendly toast notifications through centralized handling.
- ◆ **Toast Configuration** — Apply custom toast styling and behavior configurations.
- ◆ **Notification Modal** — View detailed in-app notifications through a dedicated modal.

API Surface

Authentication

POST api/Account/login

POST api/Account/register

POST api/Account/verify-email

POST api/Account/resend-otp

POST api/Account/forgot-company-name

POST api/Account/forgot-password

POST api/Account/reset-password

GET api/Subscription/get-user-subscriptions/:userId

GET api/Subscription/get-current-subscription

GET api/Subscription/get-user-current-subscription/:userId

Business Unit

POST api/BusinessUnit/add-business-unit

GET api/BusinessUnit/get-all-business-unit

PUT api/BusinessUnit/update-business-unit/:id

DELETE api/BusinessUnit/delete-business-unit/:id

GET api/BusinessUnit/get-dashboard-count

User Management

POST api/User/add-user

POST api/User/get-users-by-search-and-filter-with-pagination

POST api/User/change-status

DELETE api/User/delete-user/:id

POST api/User/reset-password

GET api/Master/get-user-roles

Employee Management

POST api/Employee/get-employee-by-search-and-filter-with-pagination
POST api/Employee/add-employee
PUT api/Employee/update-employee/:id
DELETE api/Employee/delete-employee/:id
PUT api/Employee/update-employee-isActive/:id/:status
GET api/Master/get-employee-types
GET api/Master/get-employee-types-with-flag
GET api/Master/get-employees
POST api/Expense/add-bulk-salary-expense

Party (Customer / Supplier / Client / Stockist / Investor / Temp. Worker / Misc.)

POST api/Party/get-party-by-search-and-filter-with-pagination
POST api/Party/add-party
PUT api/Party/update-party/:id
DELETE api/Party/delete-party/:id
PUT api/Party/update-party-is-active/:id/:status
GET api/Master/get-parties
GET api/Master/get-customer-types
GET api/Master/get-supplier-types

Flock Management

POST api/Flock/add-flock
DELETE api/Flock/delete-flock/:id
POST api/Flock/get-flock-by-search-and-filter-with-pagination
GET api/Master/get-flocks
GET api/Master/get-flock-types
POST api/Flock/get-flock-health-records
POST api/FeedRecordConsumption/add-automatically-feed-record-consumption
GET api/Graph/get-flock-weekly-arrive-summary/:flockId
GET api/Graph/get-total-sales/:flockId
GET api/Graph/get-flock-monthly-growth/:flockId

Egg Production

POST api/EggProduction/add-eggProduction
POST api/EggProduction/get-eggProduction-by-search-and-filter-with-pagination
POST api/EggProduction/get-egg-stock
GET api/Master/get-flock-egg-produced-units/:flockId
GET api/Master/get-units?productId=:id
GET api/Graph/get-egg-production-percentage/:businessUnitId

Vaccination

POST api/Vaccination/add-vaccination
PUT api/Vaccination/update-vaccination
DELETE api/Vaccination/delete-vaccination
POST api/Vaccination/get-vaccination-by-search-and-filter-with-pagination
POST api/Vaccination/get-vaccination-stock
POST api/VaccinationSchedule/add-vaccination-schedule
PUT api/VaccinationSchedule/update-vaccination-schedule/:id
DELETE api/VaccinationSchedule/delete-vaccination-schedule/:id
PUT api/VaccinationSchedule/update-scheduled-vaccination-status/:id/:status
POST api/VaccinationSchedule/get-vaccination-schedule-by-search-and-filter-with-pagination
GET api/Master/get-vaccines
GET api/Master/get-vaccine-with-flag

Feed Management

POST api/FeedRecord/add-feed-record
POST api/FeedRecord/get-feed-record-by-search-and-filter-with-pagination
POST api/FeedRecord/get-feed-stock
POST api/FeedRecordConsumption/add-feed-record-consumption
GET api/Master/get-feeds
GET api/Master/get-feed-types

Medicine Management

POST api/Master/get-medicine-items-by-search-and-filter-with-pagination
POST api/Master/add-medicine-item
DELETE api/Master/delete-medicine-item/:id
POST api/Medicine/get-medicine-by-search-and-filter-with-pagination
GET api/Master/get-medicine-items

Sales

POST api/Sale/get-sale-by-search-and-filter-with-pagination
POST api/Sale/add-sale
DELETE api/Sale/delete-sale/:id

Finance & Accounts

POST api/AccountHead/add-account-head
POST api/AccountHead/get-account-head-by-search-and-filter-with-pagination
GET api/Master/get-parent-accounts
POST api/Voucher/add-voucher
POST api/Voucher/get-voucher-by-search-and-filter-with-pagination
POST api/Voucher/get-ledgers-with-balance-by-search-and-filter-with-pagination
POST api/Voucher/get-payables-and-receivables-balance-by-search-and-filter-with-pagination
GET api/Master/get-accounts
GET api/Master/get-voucher-types
POST api/Expense/add-expense
POST api/Expense/get-expense-by-search-and-filter-with-pagination
GET api/Master/get-utility-types

Reports & Export

POST api/Reports/generate-ledgers-report
POST api/Export/egg-productions-excel
GET api/Export/egg-stock-excel
POST api/Export/flocks-excel

Master / Lookups

GET api/Master/get-units-with-flag
GET api/Master/get-products
POST api/Master/update-unit-isActive/:id
DELETE api/Master/delete-unit/:id
POST api/Master/add-unit
POST api/Master/get-subscription-plans
GET api/Master/get-billing-cycles

Key Technical Decisions

- ◆ Cross-platform mobile application built with React Native and TypeScript
- ◆ Native mobile navigation with stack and tab navigators
- ◆ HTTP client with request and response interceptors
- ◆ JWT-based authentication with secure local token storage
- ◆ Context-based global state management
- ◆ Local persistent storage
- ◆ Server-side pagination for list views
- ◆ Unified search and filter payloads
- ◆ PDF report generation and export
- ◆ Excel data export
- ◆ Image selection and capture
- ◆ In-app toast notifications
- ◆ Date and time selection
- ◆ Form dropdown inputs