

# Application modules

The application consists of 27+ feature modules, each handling specific business functionality:

## Core Modules

### 1. Home Module ( /home )

- Dashboard with key metrics and statistics
- Quick access to frequently used features
- Real-time notifications and alerts

### 2. Login Module ( /login )

- User authentication
- Credential validation
- Session initialization

### 3. Profile Module ( /profile )

- User profile information
- Settings and preferences
- Password change functionality

## Waybill Management

### 4. Waybill Module ( /waybill )

- Create and manage waybills
- Multiple waybill types (PCP, POS, LC)
- Waybill printing and export

#### Services:

- WaybillService - Standard waybill operations
- WaybillPcpService - PCP waybill handling
- WaybillPosService - POS waybill handling
- WaybillLcService - LC waybill handling
- WaybillPrintService - Waybill printing

# Scanning Operations

## 5. Incoming Scan Module ( /incoming-scan )

- Receiving scan for incoming packages
- Delivery scan for completed deliveries
- Problem scan for issues

### Services:

- ReceivingScanService - Handle incoming package scans
- DeliveryScanService - Handle delivery completion scans

## 6. Outgoing Scan Module ( /outgoing-scan )

- Packed scan for ready-to-ship packages
- Handover scan for package transfers
- PCP handover scan

### Services:

- PackedScanService - Packed package scanning
- HandoverScanService - Package handover operations
- HandoverPcpScanService - PCP-specific handovers

# Monitoring & Tracking

## 7. Tracking Module ( /tracking )

- Real-time package tracking
- Tracking history and status updates
- Map-based visualization (Leaflet integration)

## 8. Monitoring Booking Module ( /monitor-booking )

- Monitor booking status
- Track booking lifecycle
- Booking analytics

## 9. Monitoring Courier Module ( /monitoring-courier )

- Courier performance tracking
- Delivery assignments

- Courier location monitoring

**Service:** `MonitoringCourierService`

## Package Returns

### 10. Package Return Module (`/package-return`)

- Initiate package returns
- Return request management
- Return status tracking

**Service:** `ReturnService`

### 11. Package Return Handling Module (`/return-handling`)

- Process return requests
- Return scanning and verification
- Return disposition

## Reports & Analytics

### 12. Reports Module (`/reports`)

Comprehensive reporting system with multiple report types:

**Services:**

- `ReportService` - Main reporting service
- `MonitoringPaketKirimService` - Shipment monitoring reports
- `MonitoringManifestService` - Manifest reports
- `MonitoringPickupService` - Pickup reports
- `HistoryScanService` - Scan history reports
- `TotalPickupReportService` - Pickup totals
- `TotalDeliveryReportService` - Delivery totals
- `MonitoringSlaService` - SLA monitoring
- `MonitoringDestinationService` - Destination reports
- `FinanceService` - Financial reports

### 13. Reports DC Module (`/reports-dc`)

- Distribution Center specific reports
- DC performance metrics

- Inventory reports

# Financial Management

## 14. Finance Management Module ( /finance-management )

- Financial transactions
- Payment tracking
- Invoice management

**Service:** FinanceManagementService

## 15. Tariff Module ( /tariff )

- Pricing configuration
- Tariff calculation
- Rate management

## 16. Saldo Module ( /saldo )

- Account balance tracking
- Transaction history
- Balance top-up

# Partner & User Management

## 17. Mitra Courier Module ( /mitra-courier )

- Courier partner management
- Partner registration and verification
- Performance tracking

## 18. User Management Module ( /customer-manage )

- User administration
- Role and permission management
- User activity tracking

## 19. Account Management Module ( /account-management )

- Account operations
- Account settings
- Access control

**Service:** AccountManagementService

# Logistics Operations

## 20. Trucking Module (/trucking)

- Trucking fleet management
- Shipment assignments
- Route optimization

**Services:**

- TruckingService - Trucking operations
- TruckingShipmentService - Shipment management

## 21. Manifest Module (/manifest)

- Manifest creation and management
- Package grouping
- Manifest tracking

## 22. Manual Handling Module (/manual-handling)

- Manual package processing
- Exception handling
- Manual data entry

**Service:** ManualHandlingService

## 23. POD Approval Module (/pod-management)

- Proof of Delivery approval workflow
- POD verification
- Dispute resolution

**Service:** PodApprovalService

# Integration & Communication

## 24. Marketplace Module (/marketplace)

- Marketplace integration
- Order synchronization

- Marketplace-specific operations

**Service:** MarketplaceService

## 25. Indopaketa Module (/indopaketa)

- Indopaketa integration
- Regional package handling
- Indopaketa-specific workflows

**Service:** IndopaketaService

## 26. Notification Module (/notification)

- In-app notifications
- Notification preferences
- Alert management

**Service:** NotificationService

# Utility Modules

## 27. Models Module (/models)

- Data model definitions
- Type interfaces
- Enums and constants

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