

# Carehomely Technical Specifications

Carehomely Import Management System

**Author: John Louis Uru**

Version

**1.0**

Date

**2026**

Status

**Final Draft**

Confidentiality

**Internal Use Only**

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# 1. System Overview

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## 1.1 Project Title

**Philippines (Carehomely) Import Management System (CIMS)**

## 1.2 Purpose

A web-based system to automate and streamline the furniture import process from China warehouses to Philippines distribution centers, replacing current manual workflows.

## 1.3 Scope

- Order management from creation to delivery
- Multi-warehouse inventory tracking (Manila, Cebu, Davao)
- China warehouse coordination
- Quality control and discrepancy handling
- E-commerce synchronization
- Real-time status updates and notifications

## 2. System Architecture

### 2.1 Technology Stack

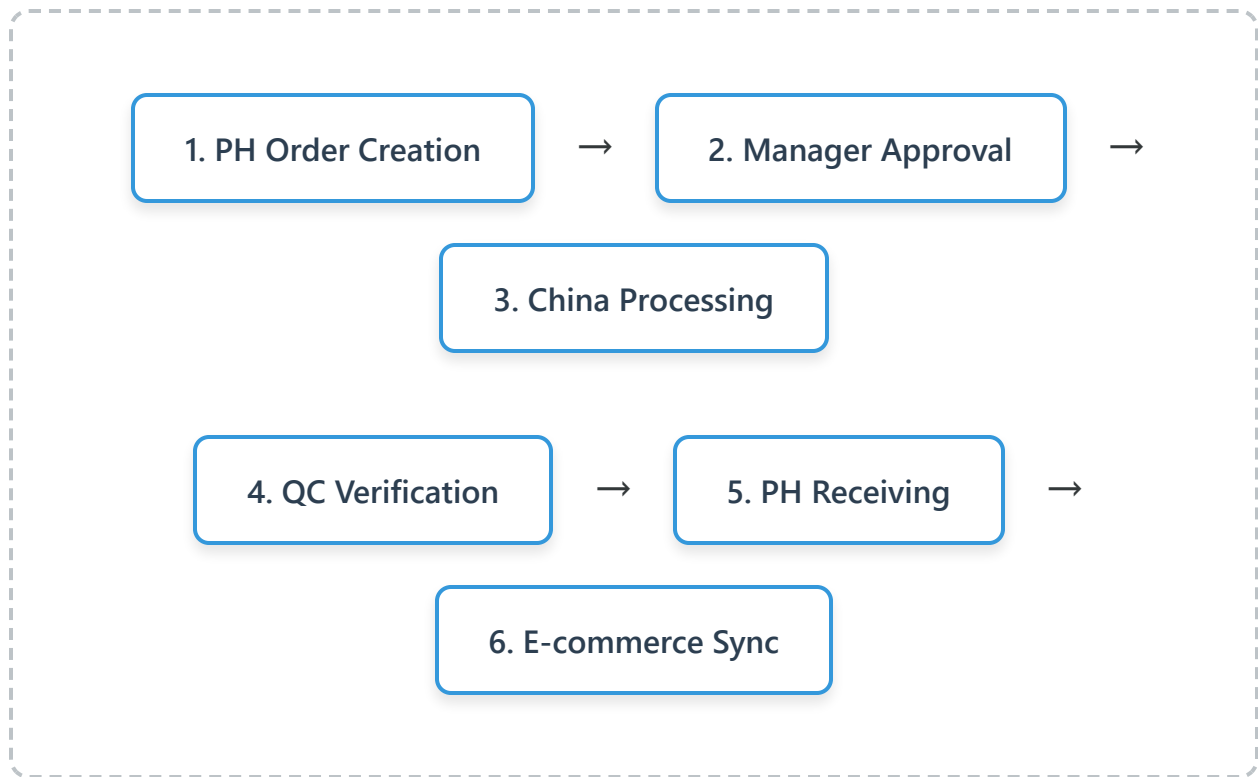
Component	Technology	Version
Backend	PHP	8.1+
Database	MySQL	8.0
Frontend	HTML5, CSS3, Bootstrap 5	Latest
JavaScript	jQuery, AJAX	3.6+
Server	cPanel with Apache	2.4+
Security	Prepared statements, CSRF tokens	-

### 2.2 System Modules

- 1. **Order Management Module** - Complete PO lifecycle
- 2. **Inventory Module** - Real-time stock tracking
- 3. **Warehouse Module** - PH & China coordination
- 4. **Quality Control Module** - Discrepancy handling
- 5. **E-commerce Sync Module** - Platform integration
- 6. **Reporting & Analytics Module** - Business intelligence
- 7. **User Management Module** - Role-based access

### 3. Workflow Implementation

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#### 3.1 Order Creation & Approval

PH Staff → Creates draft PO → System auto-generates PO number → Manager reviews → System notifies China team → China acknowledges

#### 3.2 China Warehouse Processing

Chinese personnel logs into system with Chinese interface, views assigned POs with destination breakdown, marks items as packed with batch numbers, performs QC verification against system checklist.

#### 3.3 Philippines Receiving & QC

Automated comparison between received vs ordered quantities. Discrepancy notifications trigger alerts to managers. System auto-updates inventory levels upon QC completion.

### **3.4 E-commerce Synchronization**

Real-time sync with Carehomely platform. Automatic stock level updates with retry logic for failed syncs.

## 4. Key Features Specification

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### 4.1 Dashboard

- Real-time order status tracking
- Inventory alerts (low stock, discrepancies)
- Pending approvals notification center
- QC pending items queue
- Monthly import statistics dashboard

### 4.2 Order Management

- PO creation with bulk item entry
- Per-item destination assignment
- Multi-level approval workflow
- Chinese language interface for China team
- Shipping tracking integration

### 4.3 Inventory Management

- Multi-warehouse stock visualization
- Complete stock movement history
- Auto-reorder suggestions algorithm
- Broken/missing item reporting system
- Inventory adjustment with audit trail

### 4.4 User Roles & Permissions

Role	Permissions	Access Level
<b>Admin</b>	Full system access, user management	System-wide
<b>PH Manager</b>	PO approval, discrepancy resolution	PH Operations
<b>China Manager</b>	China-side processing, QC verification	China Operations
<b>QC Staff</b>	Quality control updates, discrepancy reporting	Assigned Warehouse
<b>Warehouse Staff</b>	Receiving, inventory updates, basic reporting	Assigned Warehouse

## 5. Security Measures

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### 5.1 Authentication & Authorization

- Password hashing using PHP `password_hash()`
- Session management with automatic timeout
- Role-based access control (RBAC)
- IP whitelisting for sensitive operations

### 5.2 Data Protection

- MySQL prepared statements to prevent SQL injection
- Input validation and sanitization on all forms
- CSRF tokens for all transactional forms
- HTTPS enforcement for all connections
- Data encryption at rest for sensitive information

### 5.3 Audit Trail

- Comprehensive logging of all critical operations
- User activity monitoring and reporting
- Complete data change history
- Exportable logs for compliance requirements
- Automatic log rotation and archiving



## 6. Implementation Phases

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### Phase 1: Core Infrastructure (Week 1)

- System Requirements and Data Workflow
- Database setup and initial data integration from existing data
- User authentication and role system implementation
- Basic product and warehouse management modules
- Dashboard skeleton and basic UI framework

### Phase 2: Order Management (Weeks 2-3)

- Purchase order creation and approval workflow
- China team interface with Chinese/English language support
- Basic inventory tracking and stock management
- Notification system foundation

### Phase 3: Advanced Features (Weeks 4-5)

- QC and discrepancy management system
- E-commerce synchronization module
- Reporting and analytics dashboard
- Complete notification system with email/SMS

### Phase 4: Testing & Deployment (Weeks 6-7)

- User acceptance testing with actual teams
- Complete data migration from existing manual workflow
- Training materials and user guides development
- Production deployment on cPanel server
- Parallel running with existing carehomely system for 2 weeks

# 7. Technical Requirements

## 7.1 Server Requirements

Component	Minimum	Recommended
CPU	2 cores	4 cores
RAM	2GB	4GB
Storage	10GB SSD	20GB SSD
PHP Version	8.1	8.2+
MySQL Version	8.0	8.0+
Bandwidth	10GB/month	Unmetered

## 7.2 Development Standards

- Responsive design using Bootstrap 5 framework
- Mobile-first approach for warehouse staff access
- AJAX implementation for seamless updates
- RESTful API architecture for future expansion
- Comprehensive code documentation (PHPDoc standards)
- Git version control with proper branching strategy

## 8. Data Migration Strategy

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### 8.1 From Existing Systems

#### **Manual Data (e.g., Google Sheets) Migration:**

- Export current product catalog to CSV
- Convert existing POs to system format
- Import warehouse stock levels
- Map existing user roles and permissions

### 8.2 Training & Transition

- Staged rollout by warehouse location
- Parallel system running for 2 weeks minimum
- Dedicated support team during transition period
- Comprehensive user documentation and video tutorials
- Regular checkpoints and feedback collection

# 9. Maintenance & Support

## 9.1 Regular Maintenance Tasks

Task	Frequency	Responsibility
Database optimization	Weekly	System Admin
Log rotation and cleanup	Daily	Automated
Backup verification	Daily	System Admin
Security updates	As released	System Admin
Performance monitoring	Continuous	Monitoring System

## 9.2 System Monitoring

- 24/7 uptime monitoring with alerts
- Error tracking and automatic notifications
- Performance metrics dashboard
- User activity and system usage reports
- Regular security audit logs review

# 10. Project Information

## 10.1 Estimated Timeline


- Total Development Time: 3 weeks
- Testing & Deployment: 2 weeks
- Parallel Running: 2 weeks
- Total Project Duration: 7 weeks (1 3/4 month)

## 10.2 Cost Estimates

Component	Estimated Cost (PHP)	Notes
Initial Development	90,000	One-time development cost
Monthly Hosting (Client Shoulder)	3,000	cPanel hosting with SSL
Monthly Maintenance	10,000	10-20 hours/month support
Training	5,000	One-time training sessions

## 10.3 Expected Benefits

- Elimination of manual coordination
- 60% reduction in order fulfillment errors
- Real-time inventory visibility across all warehouses

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- Automated e-commerce synchronization
  - Complete audit trail for compliance
  - Scalable system for future expansion

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**Document Version:** 1.0 | **Last Updated:** 2026, 17 January

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**Approval:** This technical specification requires approval from stakeholders before implementation.