



Ambivare Solutions

BREAKING DEADLINES SINCE NEVER — AMBIVARE

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Inventory Management System

Complete Feature Documentation & System Overview

ENTERPRISE-GRADE IMS PLATFORM

The **Ambivare Inventory Management System (IMS)** is a comprehensive web-based solution designed for efficient inventory tracking, project management, and activity monitoring. Built with modern web technologies and Firebase backend, it offers real-time synchronization, offline capabilities, and multi-user access control.

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LOCATIONS

6+

MODULES

100%

CLOUD-BASED

Core Features



Multi-Location Inventory

Track inventory across Store, Office, and Kitchen locations with dedicated dashboards and filtering.



Real-Time Dashboard

Live statistics, charts, and low-stock alerts with visual analytics using Chart.js.



Role-Based Access

Admin and User roles with permission-based features and secure authentication.



Barcode Scanner

Built-in camera-based barcode scanning using ZXing library for quick item lookup.



Project Management

Allocate inventory to projects, track usage, and return remaining stock seamlessly.



PDF Export

Generate professional reports with company branding for all modules and time periods.



Activity Logging

Comprehensive audit trail of all actions with user tracking and date filtering.



Offline Support

Offline mode detection with automatic sync when connection is restored.

📦 **Advanced Capabilities:** Session persistence • Real-time Firebase integration • Responsive design • Low stock alerts • Category-based filtering • Search functionality • Stock status tracking (Good/Medium/Low)

📦 System Modules

Dashboard: Overview statistics, charts, and low-stock alerts with visual insights

Store Inventory: Manage electronics, hardware, tools with barcode support

Office Inventory: Track stationery, furniture, equipment with category filters

Kitchen Inventory: Monitor utensils, cookware, appliances, and supplies

Projects: Create projects, allocate resources, track status, return items

Activities: Complete audit trail with filtering by date range and user

User Management: Admin-only module for creating and managing user accounts

📦 Technology Stack

HTML5

CSS3

JavaScript ES6+

Firebase Firestore

Chart.js

jsPDF

ZXing

Responsive Design

⚙️ Key Operations

Add Inventory: Create new items with name, barcode, category, quantity, unit, description

Edit Inventory: Update item details with validation and activity logging

Add Stock: Increase inventory quantities with notes and automatic tracking

Use Inventory: Allocate items to projects with quantity tracking and validation

Return Stock: Return unused items from projects back to inventory

Delete Items: Admin-only deletion with confirmation and activity logs

Barcode Scan: Quick lookup and add items using camera-based scanning

Export Reports: Generate filtered PDF reports for any time period

📄 Reporting & Export Features

The system includes comprehensive PDF export functionality with professional formatting:

Location Reports: Filtered inventory lists with current filters applied

Project Reports: Detailed project information with allocated items

Activity Reports: 6 time periods (Day, Week, Month, Quarter, Half Year, Year)

Report Features: Company branding, summaries, statistics, page numbers

👤 User Management Features



Authentication

Secure login with session persistence and automatic logout.



Role Management

Admin and User roles with different permission levels.



User Status

Active/Inactive status control for account management.



Session Control

Persistent sessions with localStorage and secure token handling.

📈 System Benefits

Business Value: Real-time visibility • Reduced stock-outs • Better project tracking • Audit compliance • Data-driven decisions • Multi-user collaboration • Mobile accessibility • Cost reduction through efficient inventory management