**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.

| 3 | 6+ | 100% |
|---|---|---|
| LOCATIONS | MODULES | 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