

Inventory and Accounting System - Documentation

1. Project Overview

This system is a web-based Inventory and Accounting Manager developed for streamlined tracking of stock, real-time barcode and QR scanning, and efficient reporting and control for businesses.

2. Technical Architecture

- Frontend: HTML5, Bootstrap, JavaScript
- Backend: PHP
- Database: MySQL
- Libraries: TCPDF for PDF, qrcode.min.js for QR, html5-qrcode for barcode scanning
- Architecture: Client-Server

3. Programming Stack

The backend is written in PHP. QR codes are generated using JavaScript (qrcode.min.js), while reports are created using the TCPDF library. The system is modular and each section is in its own file.

4. Database Design

Main Tables:

- items: stores item details
- item_units: unit-level tracking of each item
- categories, locations, units: support tables for filters
- logs: record of item movements
- users: login and roles

Tables are connected with primary and foreign keys for relational integrity.