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Software Requirements Specification (SRS)

Project: MegaMart – Superstore Management System

Tagline: "Smart Shopping, Smart Life"

1. Introduction

Purpose

The purpose of this SRS is to define the functional and non-functional requirements of the
MegaMart Superstore Management System.
This document will serve as a guide for developers, store administrators, and stakeholders to
understand the system's goals, features, and expected behavior.

Scope

MegaMart is a web-based application designed to digitalize and simplify superstore inventory
and sales management.
The system provides:

- Product and category management
- Supplier records
- Sales and billing features
- Low-stock alerts and reporting
- Admin and staff login system

The system will enhance business efficiency, reduce manual work, and improve accuracy in store operations.

Overview

This document describes the overall functionality, system features, user interfaces, tools, constraints, and system behavior.

Overall Description

Product Perspective

MegaMart is an independent web-based system that replaces manual paperwork and traditional store management methods.
It follows a client–server model and interacts mainly with a backend database (MySQL).

Product Functions

The core functions include:

- Inventory management
- Category and supplier handling
- Sales processing and invoice generation
- Reporting (daily/monthly)
- User authentication

User Classes

User Type	Description
Admin	Has full access to manage all system data and generate reports
Staff	Can manage sales, view products, and print invoices

Constraints

- Requires stable internet connection
- Supported browsers: Chrome, Firefox, Edge
- Backend limited to PHP/Node.js/Python
- MySQL as database

Assumptions

- Only authorized users will access the system
- Store employees will have basic computer knowledge
- Inventory data will be updated daily

Functional Requirements

User Authentication

FR1: System must allow login for Admin and Staff.
FR2: Passwords must be securely stored (hashed).
FR3: Role-based access control must be applied.

Product Management (Admin Only)

FR4: Add, edit, delete product details.
FR5: View product list with search and filter options.
FR6: Automatic low-stock notification when quantity falls below limit.

Category & Supplier Management

FR7: Admin can add/edit/delete categories.
FR8: Admin can store supplier information.

Sales & Billing (Staff)

FR9: Staff can create new sales invoices.
FR10: System must calculate pricing, discount, tax automatically.
FR11: Print or download invoice in PDF format.

Reports (Admin)

FR12: Generate daily, weekly, and monthly sales reports.

Non-Functional Requirements

Performance Requirements

- The system should load pages within **3 seconds**.
- Inventory search should show results instantly.

Security Requirements

- Encrypted user passwords.
- Prevent SQL injection, CSRF, and XSS attacks.
- Role-based data access.

Usability Requirements

- Interface must be simple and user-friendly.
- Responsive design (Bootstrap) for mobile and desktop.

Reliability Requirements

- System should allow backup of database regularly.
- The system must run 24/7 with minimal downtime.

Maintainability Requirements

- Code should be modular and well-documented.
- Support for future upgrades like mobile app integration.

Tools and Technologies

Component	Technology
Frontend	HTML, CSS, JavaScript, Bootstrap
Backend	PHP / Node.js / Python
Database	MySQL
IDE	VS Code

Expected Outcomes

- Digitalized store operations
- Reduced manual errors
- Efficient sales and inventory tracking
- Better business insights through analytics
- Faster and smarter store management

Conclusion

MegaMart – *Smart Shopping, Smart Life* is designed to modernize superstore operations by providing a digital, reliable, and efficient management system.

The system streamlines product management, billing, and reporting, enabling the store to operate more effectively in today's digital world.