

Software Requirements Specification (SRS)

Instamart Web Application

1. Introduction

● Purpose

The purpose of this document is to define the requirements for the Instamart web application, an online shopping platform that enables users to browse, select, and purchase items with convenient delivery options.

● Scope

Instamart is a web-based application designed to facilitate online shopping with features like product search, cart management, order tracking, and secure payment options. The system will be built using **HTML, CSS, JavaScript, JSP, Servlets, Database, and JDBC**.

● Definitions, Acronyms, and Abbreviations

- **JSP** - JavaServer Pages
- **JDBC** - Java Database Connectivity
- **SQL** - Structured Query Language
- **UI/UX** - User Interface/User Experience

● References

- Java EE documentation
- MySQL database documentation

● Overview

This document provides a detailed description of the system's functionalities, user interactions, and software specifications.

2. Overall Description

● Product Perspective

Instamart is a standalone web application that provides an online marketplace for groceries, electronics and essential items. It will have integration with payment gateways and inventory management.

● Product Features

- User Registration & Authentication
- Product Browsing & Search
- Cart Management
- Order Placement & Tracking
- Payment Integration
- Admin Dashboard for Product & Order Management

● User Characteristics

- **Customers:** Users who browse, select, and purchase items.
- **Admins:** Manage products, orders, and user queries.

● Constraints

- The system must be hosted on a web server.
 - It must support secure payments.
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3. Specific Requirements

● Functional Requirements

1. **User Authentication**
 - Users can register, log in, and manage their profiles.
2. **Product Management**
 - Users can search for products by category, name, or brand.
3. **Cart & Checkout**
 - Users can add, remove, and update products in the cart.
4. **Admin Panel**
 - Admins can manage inventory, update product details, and view order statuses.
5. **Payment Gateway Integration**
 - Secure payment processing.

● Non-Functional Requirements

1. **Performance**
 - The system should handle concurrent users efficiently.
 2. **Security**
 - All user data must be securely stored using encryption.
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4. External Interface Requirements

- **User Interface:** Web-based UI using HTML, CSS, and JavaScript.
 - **Hardware:** Any device with an internet browser.
 - **Software:** Windows/Linux-based hosting, MySQL database, Java runtime.
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5. Other Requirements

- The application must be mobile-responsive.
- Future updates may include AI-based product recommendations.

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