



Project Title:

Flower Shop Management System

Software Requirements Specification

- **Frontend Technologies:** HTML, CSS, Tailwind CSS, Javascript
- **Backend Technologies:** PHP, MySQL

Course Codes:

INT219 & INT220

Course Titles:

Front-End Web Development & Server-Side
Scripting

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1. INTRODUCTION

1.1 Purpose

This Software Requirements Specification (SRS) defines the goals, functionalities, and constraints of the "Victorian Bloom" flower shop website. The system will serve both **customers** and **administrators**, enabling flower selection, order placement, and backend management.

1.2 Scope

Victorian Bloom is a web-based flower boutique platform that allows:

- **Customers** to browse flowers, view details, add products to cart, and place orders.
- **Admins** to view submitted orders, product listings, and customer queries.

This system will use **HTML**, **CSS (Tailwind CSS)** for the front end, **JavaScript** for interactivity (e.g., cart operations), and **PHP** with **MySQL** for server-side scripting and database interactions.

1.3 Definitions, Acronyms, and Abbreviations

- **SRS** – Software Requirements Specification
- **UI** – User Interface
- **CRUD** – Create, Read, Update, Delete
- **PHP** – Hypertext Preprocessor
- **DBMS** – Database Management System (MySQL)
- **INT219** – Front-End Web Development
- **INT220** – Server Side Scripting

1.4 References

- IEEE SRS 830 Format
- W3Schools (HTML/CSS/PHP/JavaScript Documentation)
- Tailwind CSS Documentation
- PHP Manual (php.net)

1.5 Overview

The SRS provides a structured overview of system functionality, user requirements, data flow, system architecture, and all necessary technical details required for design, development, and deployment.

2. GENERAL DESCRIPTION

2.1 Product Perspective

Victorian Bloom is a standalone, dynamic website. It integrates front-end technologies (HTML, CSS, JavaScript) with back-end scripting (PHP) and MySQL for data management.

2.2 Product Functions

- Customer registration/login
- Browse products
- View detailed product descriptions
- Add to cart and checkout
- Admin login
- Admin can view products, queries, and order details
- Contact form/query form for customer support

2.3 User Characteristics

- **Customers:** Users with general browsing and online shopping familiarity
- **Admins:** Designated backend users managing data through a secure interface

2.4 General Constraints

- System must run on a PHP-compatible server (e.g., XAMPP, LAMP, or live hosting)
- Requires MySQL for database storage
- Cart data stored in browser using JavaScript (via local Storage)

2.5 Assumptions and Dependencies

- Users access via modern browsers (Chrome, Firefox, etc.)
- PHP server is configured and running
- All data stored in MySQL
- Admin credentials are pre-defined in the database

3. SPECIFIC REQUIREMENTS

3.1 EXTERNAL INTERFACE REQUIREMENTS

3.1.1 User Interfaces

- Clean, aesthetic UI using **Tailwind CSS**
- Product grid and detail view
- Cart page with item update and remove features
- Admin panel using a simple secure login

3.1.2 Hardware Interfaces

- Compatible with desktops, tablets, and mobile phones
- Requires browser and internet access

3.1.3 Software Interfaces

- **Frontend:** HTML, Tailwind CSS, JavaScript
- **Backend:** PHP for handling forms, orders, and admin operations
- **Database:** MySQL

3.1.4 Communication Interfaces

- PHP connects to MySQL via `mysqli` or `PDO`
- Form data submitted using HTTP POST methods
- Frontend JavaScript interacts with PHP endpoints where needed

3.2 FUNCTIONAL REQUIREMENTS

3.2.1 Customer Registration & Login (Optional)

- **Inputs:** Name, email, password
- **Processing:** Store and verify credentials using PHP and MySQL
- **Output:** Redirect to homepage or show error message

3.2.2 Product Display

- Product data fetched using PHP from MySQL
- Product cards rendered in Tailwind-based grid
- Clicking a product opens a detailed view

3.2.3 Add to Cart

- **JavaScript** used to manage cart in **localStorage**
- Quantity adjustments, item deletion, and clear cart options included

3.2.4 Order Placement

- On checkout, cart data and user input sent to PHP
- PHP stores order details in `orders` table
- Confirmation page is shown

3.2.5 Admin Dashboard

- Admin login using PHP session handling
- Admin views:

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- List of products
- All placed orders
- Customer-submitted queries

3.2.6 Contact/Query Form

- User can submit queries using a simple contact form
- PHP stores form data in `queries` table
- Admin can read queries from the dashboard

3.3 NON-FUNCTIONAL REQUIREMENTS

3.3.1 Performance Requirements

- Page load time under 2 seconds for home and product pages
- Cart operations handled instantly via JavaScript
- Server response within 3 seconds for order placement

3.3.2 Security Requirements

- PHP input validation and sanitization
- Passwords (if used) hashed before storage
- Admin page protected with login sessions

3.3.3 Usability Requirements

- Simple, attractive layout using Tailwind CSS
- Mobile-friendly and responsive design
- Easy navigation and clean cart interface

3.3.4 Portability

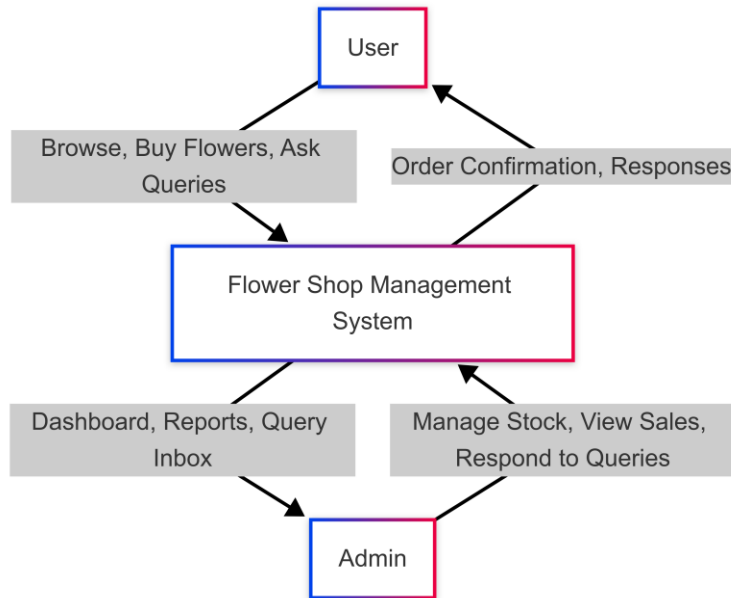
- Compatible with any LAMP/WAMP/XAMPP setup
- Works on Chrome, Firefox, Safari, Edge

4. ANALYSIS MODELS

4.1 DATA FLOW DIAGRAMS (DFD)

Level 0 (Context Level)

Flower Shop Management System

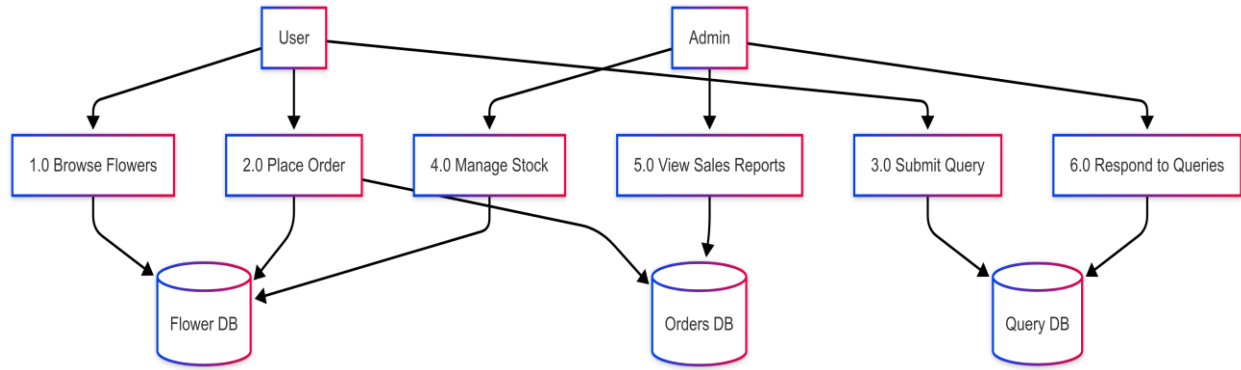


This DFD illustrates the **overall flow of data** in the *Flower Shop Management System* between two external entities—**User** and **Admin**—and the core system.

- **Users** can browse flowers, make purchases, and send queries. In return, they receive order confirmations and query responses.
- **Admins** access dashboards and reports, manage flower stock, monitor sales, and reply to user queries.
- The central system handles all interactions, acting as a bridge to process, store, and route information between users and admins efficiently.

Level 1 DFD

Flower Shop Management System



This Level 1 DFD breaks down the main processes of the system into individual modules.

- **Users** can browse flowers (1.0), place orders (2.0), and submit queries (3.0), which interact with respective databases: Flower DB, Orders DB, and Query DB.
- **Admins** manage stock (4.0), view sales reports (5.0), and respond to queries (6.0), helping keep data updated and queries resolved.
- Each process communicates with relevant databases and external entities, providing a clearer picture of how data flows and operations are executed within the system.

5. GITHUB LINK:

[GitHub Repository Link: <https://github.com/AddyTheDeveloper/Victorian-Bloom>]

6. Instagram Video Link:

[Link: https://www.instagram.com/reel/DIk0OsdyhFW/?utm_source=ig_web_copy_link]

7. LinkedIn Profiles of Group Members:

1. Abhigyan Hazarika : <https://www.linkedin.com/in/abhigyan-hazarika-870ab327b/>
2. Mahek Singh : <https://www.linkedin.com/in/mahek-singh-5123a3298/>
3. Aditya Hans : <https://www.linkedin.com/in/adityahans17/>
4. Samriddha Bhattacharjee : <https://www.linkedin.com/in/samriddha-bhattacharjee/>

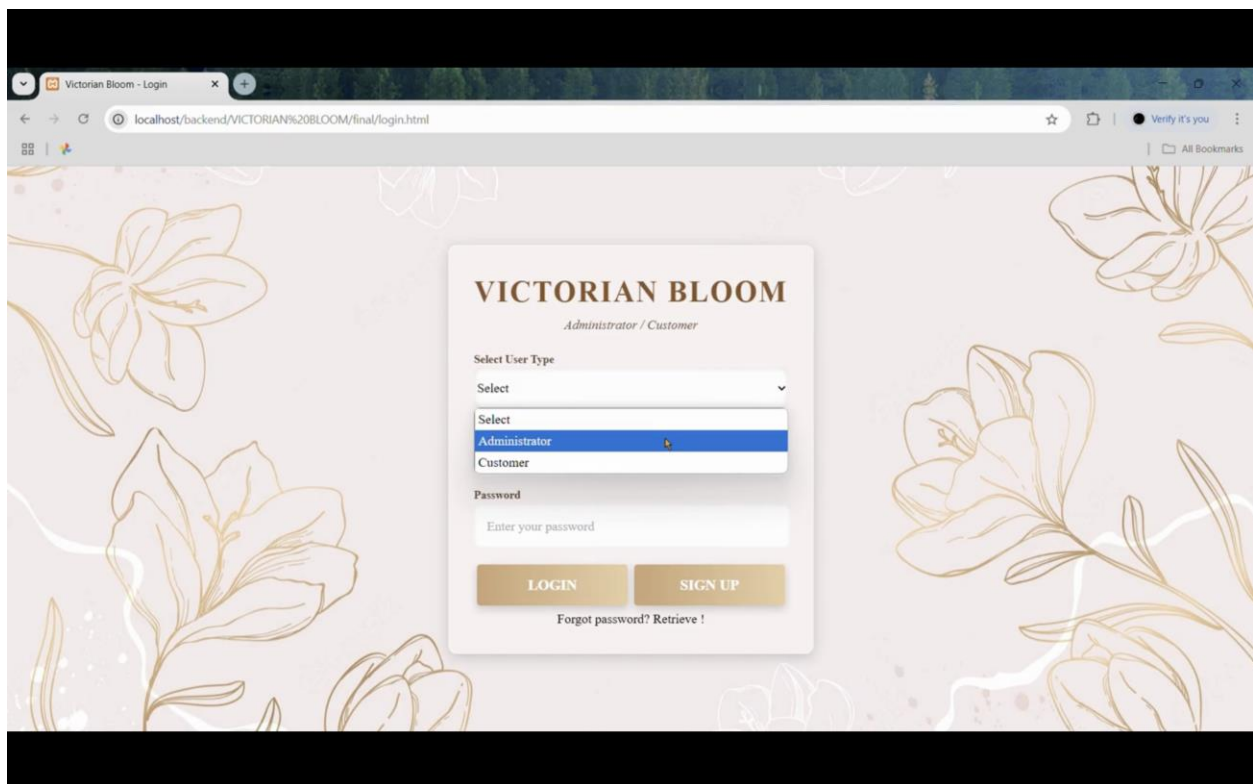
APPENDICES

Appendix A – Database Tables

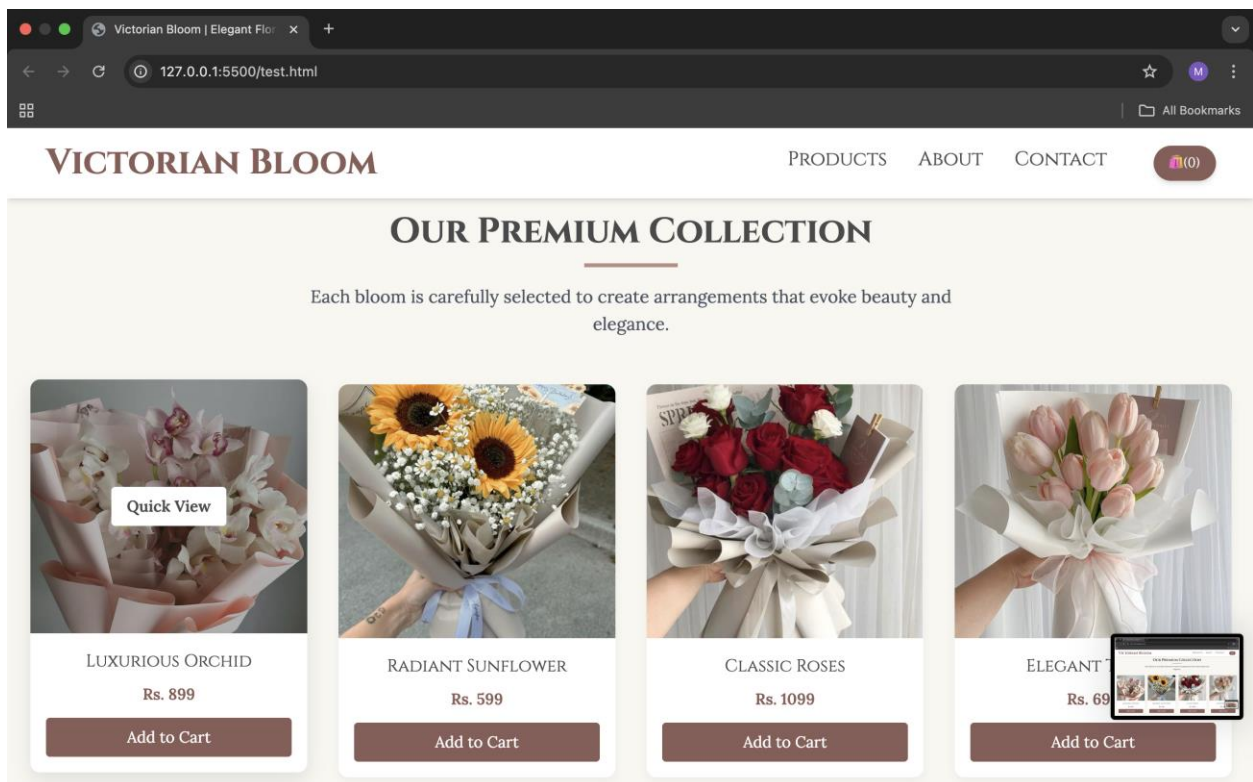
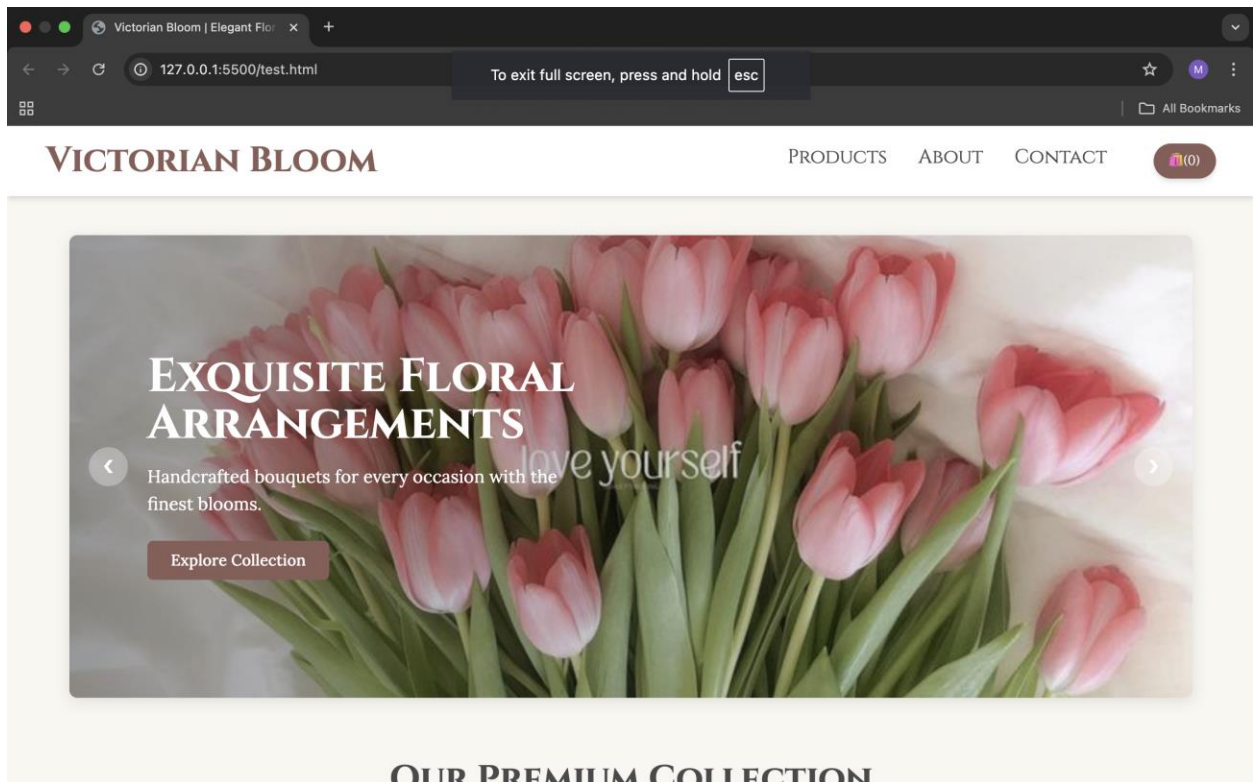
- **Products:** id, name, price, description, image
- **Orders:** id, customer_name, email, cart_data, timestamp
- **Queries:** id, name, email, message, date
- **Admins:** id, username, hashed_password

Appendix B – Sample Screenshots

- Home Page, Product Page, Cart Page
- Admin Dashboard
- Order and Query Tables



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