**Client Document: Flower Shop Management System**

For a **simple flower shop management system** or similar small projects, the **Waterfall Model** is a **practical choice** due to its **structured, cost-effective, and easy-to-manage** nature because is slow in process.and in **Waterfall Model** flexibility is low, rate of risk in management is much lesser than others.

# Project Phases

## 1. Requirement Analysis

The following requirements were gathered from discussions with the client:

- Customers can browse flowers by category.
- Customers can place orders and make payments.
- The shop owner can manage inventory and track orders.
- An admin panel is available for updating prices and stock.

## 2.System Design

- **Database Structure**: Tables for Customers, Orders, Products, and Payments.
- **User Interface (UI)**: A web-based interface for customers and admin.
- **Backend**: Server to handle order processing and inventory management.

## 3.Implementation(coding)

Develop the system using appropriate technologies (e.g., **HTML, CSS, JavaScript, PHP, MySQL**).

- Code the **user interface** for browsing flowers.
- Implement **cart & checkout** functionality.
- Develop **admin features** for shop management..

## 4.Testing

- **Unit Testing**: Ensuring individual modules function correctly.
- **Integration Testing**: Checking smooth interaction between components.
- **User Acceptance Testing**: Final testing with client feedback.

## 5. Deployment

- Deploy the system on a web hosting platform or local server.
- Provide the client with login credentials and system training.

### 6.Maintenance

- Fix bugs and provide updates as required.
- Implement additional features based on customer feedback.

# Why  choose the waterfall model

- If the project's requirements are **well-defined and unlikely to change**, the Waterfall Model ensures smooth development.
- Smaller projects **don't need frequent changes**, so the rigid structure works well
- Small projects often have **limited budgets**, and Waterfall **avoids unnecessary iterations** that increase costs.
- Example: A **Flower Shop Management System** has predictable features (inventory, orders, payments), making it ideal for a step-by-step approach.

# Why not choose other models

- **Agile** :Requires frequent client involvement and is better for evolving requirements. Unnecessary for small, well-defined projects.
- **spiral:**More suited for **complex and high-risk** projects with evolving needs.
- **V model:**Best for projects requiring **extensive testing** at every phase, which may not be necessary for small-scale systems.

# Conclusion

The Flower Shop Management System follows a structured  **waterfall model** to ensure smooth development and deployment.


Submitted by

Mithila Ishrat Khan

ID:056222000510147

Jannatul Khould Neju

ID:0562220005101014