

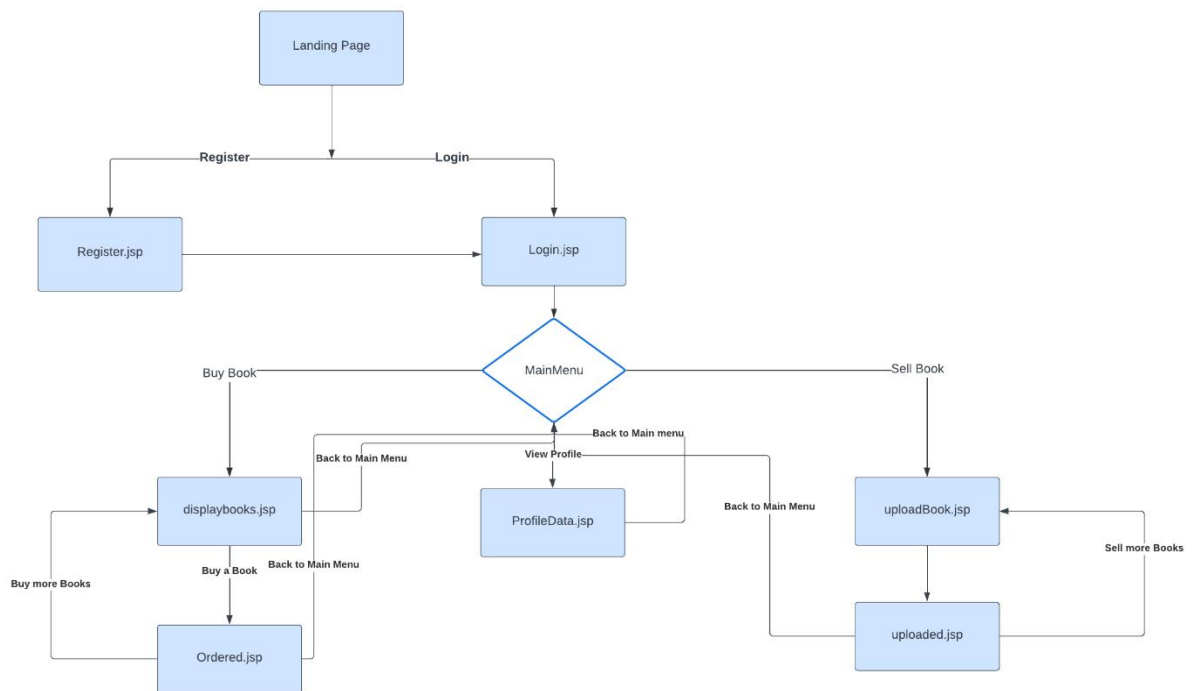
# Architecture Document

## New And Old Book Shop

### 1. Introduction

The Online Bookstore System is designed to provide users with a seamless experience for buying and selling books online. This document outlines the system architecture, including its components, data flow, and technologies used.

### 2.Data Flow Diagram:



### 3. System Components

The system comprises several key components:

**Landing Page:** This is the entry point for users, offering options for registration and login.

**User Registration Component:** Responsible for handling user registration by capturing and validating user data.

**User Login Component:** Authenticates users with existing accounts using their credentials.

**Main Menu:** Acts as the central navigation hub after login, providing options for buying books, selling books, and managing the user profile and logout options.

**Buy a Book Component:** Allows users to browse books, add them to a cart, and complete purchases.

**Sell a Book Component:** Enables users to upload book details for selling purposes.

**User Profile Component:** Displays user information and their transaction history.

**Database:** Stores user accounts, book details, orders, and profile information securely.

## 4. Data Flow

The following steps outline the data flow within the system:

### **User Registration:**

User accesses the Landing Page and chooses the registration option.

User enters registration details (name, email, password, address).

User submits the registration form.

User Registration Component validates the data and creates a new user account in the Database.

### **User Login:**

User accesses the Landing Page and chooses the login option.

User enters login credentials (email, password).

User submits the login form.

User Login Component authenticates the user against the stored credentials in the Database and redirects to the Main Menu upon successful login.

### **Main Menu Interaction:**

After login, the user interacts with the Main Menu, choosing options like Buy a Book, Sell a Book, User Profile, or logout.

Each option leads to the respective component for further interaction.

### **Buying a Book:**

User navigates to Buy a Book Component from the Main Menu.

Displays all available books for sale with book id, title, cost, condition.

Buy a Book Component updates the Database with the order details.

### **Selling a Book:**

User navigates to Sell a Book Component from the Main Menu.

User uploads book details (title, author, ISBN, condition).

Sell a Book Component stores the book details securely in the Database.

#### **Viewing User Profile:**

User navigates to User Profile Component from the Main Menu.

User Profile Component retrieves user information from the Database and displays it.

## **5. Conclusion**

The architecture outlined above ensures a robust and scalable Online Bookstore System that provides users with a smooth and secure experience for buying and selling books online. The separation of components, secure data handling, and use of industry-standard technologies contribute to the system's reliability and performance.