**Project Design Phase-II**

**Data Flow Diagram & User Stories**

**Date:** 26-06-2025  
**Team ID:** LTVIP2025TMID42803  
**Project Name:** Booknest  
**Maximum Marks:** 4 Marks

### **Data Flow Diagrams**

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

#### **Example (Simplified):**

**Level 0 DFD:** - User interacts with Booknest system - User can: - Search for books - View book details - Place orders - Make payments - Admin manages book inventory, orders, and user accounts

**Level 1 DFD:** 1. **Search Module** - Input: Search query from user - Process: Query matched with books database - Output: Search result to user

1. **Order Module**
   * Input: Book selected for purchase
   * Process: Order processing and confirmation
   * Output: Order receipt
2. **Payment Module**
   * Input: Payment details
   * Process: Validate and process payment
   * Output: Payment confirmation
3. **Admin Module**
   * Input: Inventory changes, user management actions
   * Process: Update database
   * Output: Confirmation and logs

### **User Stories**

| **User Type** | **Functional Requirement (Epic)** | **User Story / Task** | **Acceptance Criteria** | **Priority** | **Release** |
| --- | --- | --- | --- | --- | --- |
| Customer | Book Search & View | As a customer, I can search for books by title or author. | Search results show matching books with correct details. | High | Sprint-1 |
| Customer | Book Ordering | As a customer, I can place an order for a selected book. | Order is placed and confirmation is shown. | High | Sprint-2 |
| Customer | Order Management | As a customer, I can view and cancel my previous orders. | Order status updates and reflects changes. | Medium | Sprint-2 |
| Admin | Inventory Management | As an admin, I can add, edit, and delete book listings. | Inventory updates reflect instantly in search results. | High | Sprint-1 |
| Admin | User Management | As an admin, I can manage user accounts and access. | Admin changes reflect correctly. | High | Sprint-2 |
| Customer | Review System | As a customer, I can leave reviews for books I purchased. | Reviews appear under the book detail page. | Medium | Sprint-2 |
| Customer | Payment Handling | As a customer, I can pay securely using online payment methods. | Payment is processed and recorded in transaction history. | High | Sprint-2 |
| Admin | Order Analytics | As an admin, I can view analytics on book sales and order stats. | Dashboard reflects real-time data. | Medium | Sprint-2 |