

## Project Design Phase-II

### Data Flow Diagram & User Stories

Date	20 June 2025
Team ID	LTVIP2025TMID55634
Project Name	Booknest: Where Storioes Nestle
Maximum Marks	4 Marks

#### Data Flow Diagrams:

A Data Flow Diagram (DFD) is a structured visual tool used to represent the flow of information within a system. It provides a clear and concise graphical depiction of how data moves through a system, including where it originates, how it is processed, and where it is stored.

DFDs are instrumental in illustrating the functional aspects of a system without delving into technical details. They help stakeholders understand how inputs are transformed into outputs and how data interacts with various components of the system. When designed clearly and accurately, a DFD effectively communicates system requirements and serves as a valuable reference throughout the development lifecycle

#### Example: [\(Simplified\)](#)



- User sends request (register, login, browse books, order, wishlist)
- System responds with book list, dashboard, confirmation
- System stores/updates data in MongoDB

## User Stories

### Data flows:

- **User Interactions:**  
Data enters the system through various user interactions such as login, applying book filters, managing wishlists, and adding items to the cart.
- **System Operations:**  
The system processes these inputs and performs read/write operations on the backend database, specifically interacting with collections such as **User**, **Book**, **Order**, and **Wishlist** within **MongoDB**.

User Type	Functional Requirement (Epic)	User Story #	User Story / Task	Acceptance Criteria	Priority	Release
Customer (Web)	Registration	USN-1	As a user, I can register with email and password.	I can access my dashboard	High	Sprint-1
Customer (Web)	Registration	USN-2	As a user, I receive a confirmation email after registration.	I receive & confirm via email	High	Sprint-1
Customer (Web)	Registration (OAuth)	USN-4	As a user, I can register using Gmail authentication.	I register via Gmail	Medium	Sprint-1
Customer (Web)	Login	USN-5	As a user, I can log in using email and password.	I access my dashboard	High	Sprint-1
Customer (Web)	Dashboard	USN-6	As a user, I can view my orders and wishlist on a personalized dashboard.	Dashboard shows my books and orders	High	Sprint-2
Customer (Web)	Wishlist	USN-7	As a user, I can add/remove books from my wishlist.	Heart icon toggles and saves correctly	Medium	Sprint-2

User Type	Functional Requirement (Epic)	User Story #	User Story / Task	Acceptance Criteria	Priority	Release
Customer (Web)	Book Browsing	USN-8	As a user, I can browse and filter books by genre/author.	Filters update book list instantly	High	Sprint-2
Customer (Web)	Order Placement	USN-9	As a user, I can add books to my cart and place orders with delivery address.	Order confirms with address saved	High	Sprint-3
Customer (Web)	Profile Management	USN-10	As a user, I can update my profile (name/email/password).	Changes are saved and reflected on next login	Medium	Sprint-3
Administrator	Admin Dashboard	USN-11	As an admin, I can manage all books, users, and orders.	Admin panel updates backend & reflects in UI	High	Sprint-4
Administrator	Order Management	USN-12	As an admin, I can update order status (Processing, Shipped, Delivered).	Orders update and show status in user dashboard	Medium	Sprint-4
Administrator	Book Image Upload	USN-13	As an admin, I can upload book images during book creation/editing.	Book cover appears correctly in book listing	Medium	Sprint-4