

## Project Design Phase-II

### Data Flow Diagram & User Stories

Date	25 JUNE 2025
Team ID	LTVIP2025TMID54908
Project Name	DOCSPOT – Seamless Appointment Booking for Health
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.

#### EXPLANATION:

Explanation of the Data Flow Diagram – Step-by-Step:

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##### 1. User Registration & Login

- **User → Registration Module:** Inputs email, password.
  - **System → Database:** Saves user details after validation.
  - **Login Module:** Verifies credentials and grants access.
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##### 2. Doctor Management

- **Doctor → Doctor Panel:** Registers specialization, available slots.
- **System → Database:** Stores doctor profile and slots.

- **Admin → Verifies Doctor:** Approves or rejects registration.
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### 3. View & Filter Doctors

- **User → Browse Doctors:** Filters based on specialty, availability.
  - **System → Database:** Fetches matching profiles.
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### 4. Book Appointment

- **User → Booking Module:** Selects doctor, uploads document, chooses time slot.
  - **System → File Upload + Booking Handler:** Saves document (via Multer), creates booking entry.
  - **Booking → Database:** Stores full booking info (user ID, doctor ID, time, file path).
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### 5. Admin Approval

- **Admin → Admin Panel:** Reviews booking requests.
  - **Booking Status → Database:** Updates appointment as approved or rejected.
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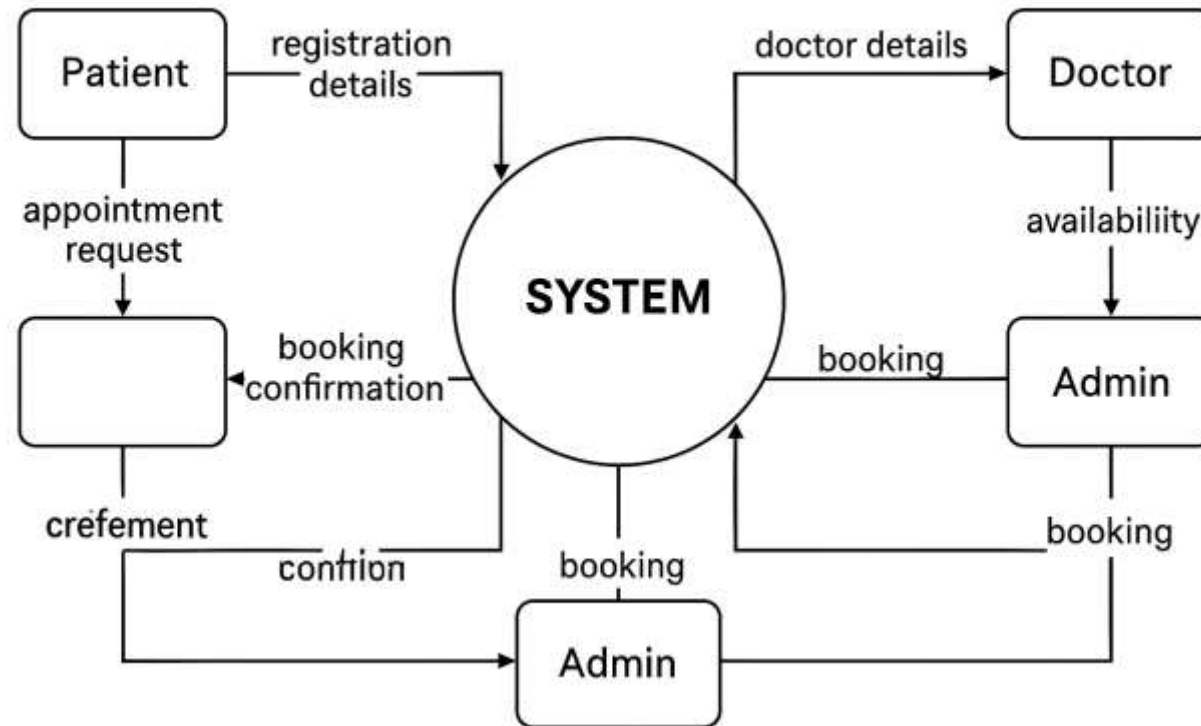
### 6. Notifications

- **System → Notification Service:** Sends confirmation/reminder to patient via email/SMS (NodeMailer).
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### 7. User → View Booking History

- **System → Database:** Displays past and future appointments.

# DocSpot



DATA FLOW DIAGRAM

## User Stories:

### User Stories Table – DocSpot Project

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account/dashboard after signing up	High	Sprint-1
		USN-2	As a user, I will receive a confirmation email once I have registered for the application.	I receive the confirmation mail and click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook.	I can register and access my dashboard via Facebook login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail.	I can use my Gmail to log in and reach the dashboard	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password.	I enter valid credentials and land on the dashboard	High	Sprint-1
	Dashboard	USN-6	As a user, I can view and filter doctors based on specialization, availability, and location.	I can see a list of doctors with real-time filtering	High	Sprint-2
	Booking	USN-7	As a user, I can book an appointment with a doctor, select a time slot, and upload a report or document.	My appointment is submitted, and I receive confirmation	High	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Customer (Web user)	History & Reminders	USN-8	As a user, I can view past/future bookings and receive reminders via email.	I can check history and get notified about upcoming appointments	Medium	Sprint-3
	Booking Management	USN-9	As a user on desktop, I can access the same features available on mobile with a responsive UI.	I can perform booking tasks smoothly on web	Medium	Sprint-3
Customer Care Executive	Appointment Handling	USN-10	As a support executive, I can assist users by checking appointment status and rescheduling on request.	I can access appointments and make necessary changes	Medium	Sprint-4
Administrator	Approval & Doctor Management	USN-11	As an admin, I can approve or reject appointments, verify doctors, and manage accounts.	Admin actions reflect in the database with appropriate status	High	Sprint-3
	Reports & Monitoring	USN-12	As an admin, I can generate reports on total bookings, cancellations, and activity by doctors or users.	I can download usage reports for internal evaluation	Medium	Sprint-4

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