

Project Design Phase-II

Data Flow Diagram & User Stories

Date	23-06-2025
Team ID	LTVIP2025TMID52343
Project Name	DocSpot: Seamless Appointment Booking for Health
Maximum Marks	4 Marks

Data Flow Diagrams:

A **Data Flow Diagram (DFD)** illustrates how data moves within the Freelance Finder platform. It captures how users (freelancers and clients) interact with the system, how information flows between different components, and where the data is stored.

□ DFD Components Explanation

1. External Entities:

These are users who interact with the system from outside.

- Patient
 - Initiates user authentication to log in.
 - Can book an appointment.
 - Has the ability to view appointments and access emergency services.
- Doctor
 - Also goes through user authentication.
 - Provides their specialization.

- Can view bookings.
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2. Processes:

- User Authentication
Central login system validating both doctors and patients before giving access to services.
 - Book Appointment
Triggered by a patient. Sends appointment data to be stored/viewed.
 - Specialization
The doctor's area of expertise is captured here and is likely used for filtering or matching with patient needs.
 - View Bookings
Doctors use this to see their scheduled appointments.
 - Emergency
Possibly a dedicated feature for patients to request urgent care.
 - Remove User
Admin has the authority to remove user accounts.
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3. Data Stores / Internal Actors:

- Admin
 - Accesses and views data.
 - Has control over user management (remove user).
 - Possibly monitors appointments or emergency cases.

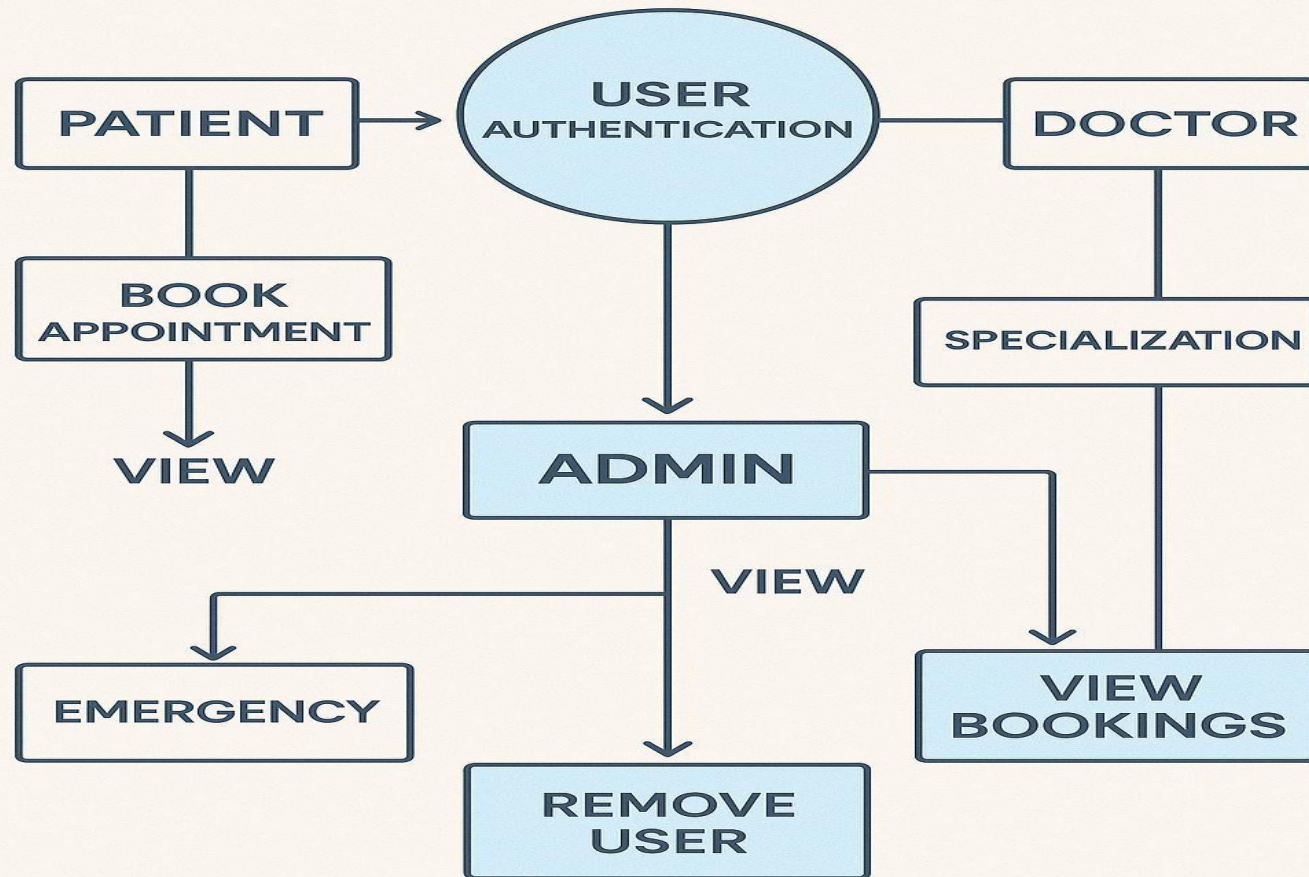
□ **How Data Flows**

1. Patient → User Authentication → Admin
 - Patient logs in, admin validates or manages access.
2. Patient → Book Appointment → View → Emergency
 - The patient books an appointment, views it, and can access emergency if needed.
3. Doctor → User Authentication → Specialization → View Bookings
 - Doctor logs in, updates specialization, and views their bookings.
4. Admin → View → Remove User
 - Admin oversees all views and can remove users when needed.

□ **Observations / Suggestions for Improvement**

- 1. Label Data Flows Clearly:**
 - Arrows can be labelled with data descriptions (e.g., "login credentials", "appointment details") for clarity.
- 2. Add Data Stores:**
 - Add boxes labelled Databases (e.g., User DB, Appointment DB) to show where data is stored.
- 3. Separate Processes and Entities Visually:**
 - Use different shapes (e.g., circles for processes, rectangles for entities, open-ended rectangles for data stores).
- 4. Clarify Emergency Flow:**
 - It's unclear if the emergency data goes to a doctor, hospital, or alert system.

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User Stories

User Story Table – DocSpot

User Type	Functional Requirement (Epic)	User Story / Task	Acceptance Criteria	Priority	Release
Patient	Appointment Booking	As a patient, I can search for doctors by specialty and location.	Search results return relevant doctors.	High	Sprint-1
		As a patient, I can book, reschedule, or cancel appointments.	Appointment status updates accordingly.	Medium	Sprint-2

Healthcare Provider	Schedule Management	As a provider, I can manage my availability calendar.	Changes reflect immediately in patient booking system.	High	Sprint-1
User	Messaging	As a user, I can chat with the other party in real-time.	Messages appear instantly.	Medium	Sprint-2
Admin	Profile Management	As a Admin, I can update my profile.	Changes are saved successfully.	High	Sprint-2
Client	Payment Processing	As a client, I can make secure payments after job completion.	Payment recorded and shown in transaction history.	High	Sprint-2
user	Review System	As a user, I can leave a review after project closure.	Review appears on profile.	Medium	Sprint-2
Admin	User Moderation	As an admin, I can review reported users and take action.	Reports and actions logged.	High	Sprint-1