Project Design Phase-II
Data Flow Diagram & User Stories

Date	19-07-2025
Team ID	LTVIP2025TMID50887
Project Name	DocSpot
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.
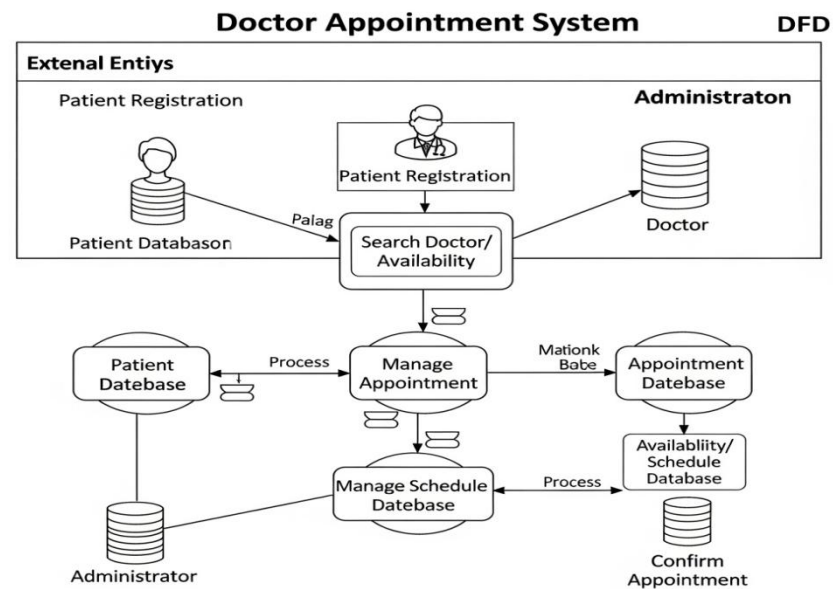
User Stories

User Story Table – DocSpot

User Type	Functional Requirement (Epic)	User Story / Task	Acceptance Criteria	Priority	Release
Patient	Account Management	As a patient, I can create and register my account with personal details	Account created successfully with email verification	High	Sprint-1
Patient	Account Management	As a patient, I can login securely to my account	Successful authentication with password protection	High	Sprint-1
Patient	Account Management	As a patient, I can update my profile information and medical history	Changes saved and reflected immediately	Medium	Sprint-1
Patient	Doctor Search	As a patient, I can search for doctors by specialty	Search results display relevant specialists	High	Sprint-1
Patient	Doctor Search	As a patient, I can search for doctors by location/area	Location-based results with distance information	High	Sprint-1
Patient	Doctor Search	As a patient, I can filter doctors by availability, ratings, and fees	Filtered results match selected criteria	Medium	Sprint-1
Patient	Doctor Search	As a patient, I can view doctor profiles with qualifications and experience	Complete doctor information displayed	Medium	Sprint-1
Patient	Appointment Booking	As a patient, I can view doctor's available time slots	Real-time availability shown accurately	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story / Task	Acceptance Criteria	Priority	Release
Patient	Appointment Booking	As a patient, I can book appointments with preferred doctors	Appointment confirmed and saved in system	High	Sprint-1
Patient	Appointment Booking	As a patient, I can reschedule my existing appointments	New appointment time updated successfully	Medium	Sprint-2
Patient	Appointment Booking	As a patient, I can cancel my appointments	Appointment cancelled and slot becomes available	Medium	Sprint-2
Patient	Appointment Management	As a patient, I can view my appointment history	Complete list of past and upcoming appointments	Medium	Sprint-2
Patient	Appointment Management	As a patient, I can receive appointment reminders	Notifications sent via email/SMS before appointment	Low	Sprint-2
Patient	Payment Processing	As a patient, I can view my payment history and invoices	Transaction history displayed with download option	Medium	Sprint-2
Patient	Communication	As a patient, I can message doctors for quick queries	Messages delivered and responses received	Medium	Sprint-2
Patient	Review System	As a patient, I can rate and review doctors after consultation	Review published on doctor's profile	Medium	Sprint-2
Patient	Medical Records	As a patient, I can upload and manage my medical documents	Documents stored securely and accessible	Low	Sprint-3
Doctor	Account Management	As a doctor, I can register with professional credentials	Account created after credential verification	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story / Task	Acceptance Criteria	Priority	Release
Doctor	Account Management	As a doctor, I can login securely to my dashboard	Successful authentication with role-based access	High	Sprint-1
Doctor	Profile Management	As a doctor, I can create and update my professional profile	Profile information saved and visible to patients	High	Sprint-1
Doctor	Profile Management	As a doctor, I can upload my qualifications and certificates	Documents verified and displayed on profile	Medium	Sprint-1
Doctor	Schedule Management	As a doctor, I can set my availability and working hours	Schedule updated and reflected in booking system	High	Sprint-1
Doctor	Schedule Management	As a doctor, I can block specific time slots for personal use	Blocked slots not available for patient booking	Medium	Sprint-1
Doctor	Schedule Management	As a doctor, I can view my daily/weekly appointment schedule	Complete schedule displayed with patient details	High	Sprint-1
Doctor	Appointment Management	As a doctor, I can accept or reject appointment requests	Appointment status updated and patient notified	High	Sprint-2
Doctor	Appointment Management	As a doctor, I can reschedule appointments when needed	New time communicated to patient automatically	Medium	Sprint-2
Doctor	Appointment Management	As a doctor, I can cancel appointments with proper notice	Cancellation recorded and patient notified	Medium	Sprint-2
Doctor	Patient Management	As a doctor, I can view patient profiles and medical history	Complete patient information accessible during consultation	Medium	Sprint-2

User Type	Functional Requirement (Epic)	User Story / Task	Acceptance Criteria	Priority	Release
Doctor	Patient Management	As a doctor, I can add consultation notes and prescriptions	Notes saved to patient's medical record	High	Sprint-2
Doctor	Communication	As a doctor, I can respond to patient messages	Messages delivered and conversation history maintained	Medium	Sprint-2
Doctor	Financial Management	As a doctor, I can set consultation fees and payment methods	Fee structure updated and applied to new bookings	High	Sprint-2
Doctor	Financial Management	As a doctor, I can view earnings and payment analytics	Financial reports generated with detailed breakdown	Medium	Sprint-3
Doctor	Review Management	As a doctor, I can view patient reviews and ratings	Reviews displayed on profile with response option	Low	Sprint-2
Admin	System Management	As an admin, I can access the administrative dashboard	Secure admin login with full system access	High	Sprint-1
Admin	User Management	As an admin, I can view and manage all user accounts	Complete user list with search and filter options	High	Sprint-1
Admin	User Management	As an admin, I can verify doctor credentials and approve accounts	Verification process completed with approval/rejection	High	Sprint-1
Admin	User Management	As an admin, I can suspend or deactivate problematic accounts	Account status updated and access restricted	High	Sprint-1
Admin	Content Moderation	As an admin, I can review and moderate user-generated content	Content approved/rejected based on platform guidelines	Medium	Sprint-2

User Type	Functional Requirement (Epic)	User Story / Task	Acceptance Criteria	Priority	Release
Admin	Content Moderation	As an admin, I can handle user complaints and disputes	Complaints resolved and actions documented	High	Sprint-2
Admin	System Analytics	As an admin, I can view platform usage statistics and reports	Comprehensive analytics dashboard with key metrics	Medium	Sprint-2
Admin	System Analytics	As an admin, I can generate revenue and transaction reports	Financial reports generated for specified time periods	Medium	Sprint-3
Admin	System Configuration	As an admin, I can manage system settings and configurations	Settings updated and applied across the platform	Low	Sprint-3
Admin	Notification Management	As an admin, I can send system-wide announcements	Notifications delivered to all users successfully	Low	Sprint-3
Receptionist	Appointment Management	As a receptionist, I can manage appointments on behalf of doctors	Appointments booked/modified with appropriate permissions	Medium	Sprint-2
Receptionist	Patient Support	As a receptionist, I can assist patients with booking and inquiries	Patient queries resolved and appointments facilitated	Medium	Sprint-2
Receptionist	Schedule Coordination	As a receptionist, I can coordinate doctor schedules and availability	Schedule conflicts resolved and optimized	Medium	Sprint-2
System	Notification System	As a system, I can send automated reminders to patients	Reminders sent at configured intervals before appointments	Medium	Sprint-2
System	Notification System	As a system, I can notify doctors of new appointment requests	Real-time notifications delivered to doctor dashboard	High	Sprint-2

User Type	Functional Requirement (Epic)	User Story / Task	Acceptance Criteria	Priority	Release
System	Payment Processing	As a system, I can process secure online payments	Payments processed safely with encryption	High	Sprint-2
System	Data Management	As a system, I can backup and secure user data	Regular backups performed and data protected	High	Sprint-1
System	Integration	As a system, I can integrate with external calendar applications	Calendar sync working with popular platforms	Low	Sprint-3
System	Reporting	As a system, I can generate automated reports for analytics	Reports generated accurately with scheduled delivery	Medium	Sprint-3

Sprint Planning Summary

Sprint-1 (Core Foundation)

- User authentication and account management
- Doctor search and profile creation
- Basic appointment booking functionality
- Admin user management and verification
- System security and data protection

Sprint-2 (Enhanced Features)

- Advanced appointment management (reschedule/cancel)
- Payment processing and financial management
- Communication system (messaging)

- Review and rating system
- Content moderation and user support

Sprint-3 (Advanced Features)

- Medical records management
- Advanced analytics and reporting
- System integrations
- Enhanced notification system
- Performance optimization

Priority Legend

- **High**: Critical functionality required for MVP
- **Medium**: Important features for user experience
- **Low**: Nice-to-have features for future enhancement