Project Design Phase-II
Data Flow Diagram & User Stories
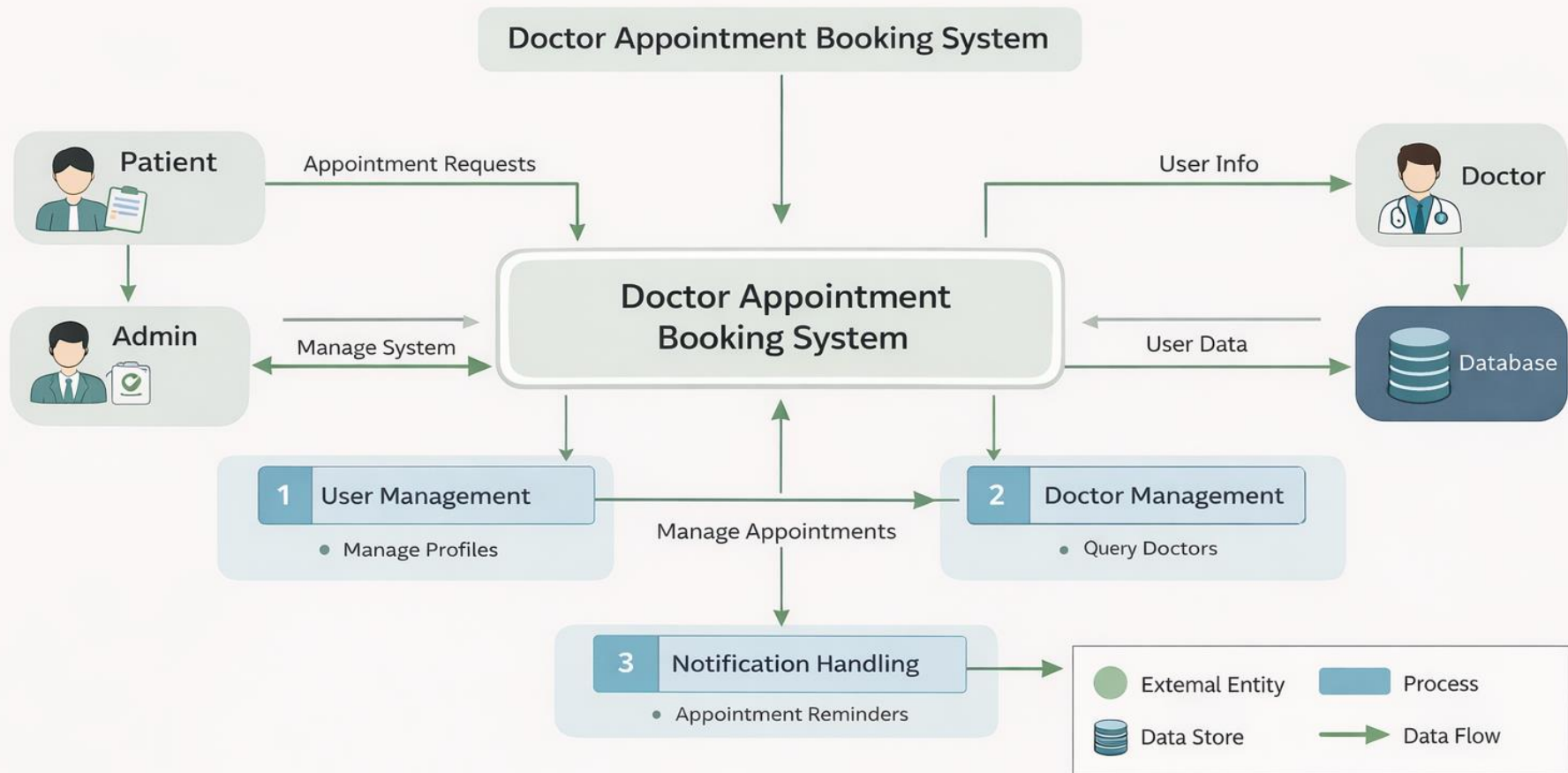
Date	31 January 2025
Team ID	LTVIP2026TMIDS81521
Project Name	SmartDoc Appointment System
Maximum Marks	4 Marks

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.

Data Flow Diagram (DFD)

A DFD is a traditional visual representation showing how datta
flows within a system, depicting how processes move information betweeen entitlies and
external systems.

Doctor Appointment Booking System

Patient — Appointment Requests → Doctor Appointment Booking System — User Info → Doctor

Admin — Manage System → Doctor Appointment Booking System ← User Data → Database

1 User Management
- Manage Profiles

2 Doctor Management
- Query Doctors

Manage Appointments

3 Notification Handling
- Appointment Reminders

Legend:
- External Entity
- Process
- Data Store
- Data Flow

User Stories

1. Patient (Mobile & Web User)

User Type	Functional Requirement (Epic)	User Story No	User Story / Task	Acceptance Criteria	Priority	Release
Patient	Registration	USN-1	As a patient, I can register using email and password.	User account is created and redirected to dashboard.	High	Sprint-1
Patient	Login	USN-2	As a patient, I can log in using email & password.	User can successfully access dashboard.	High	Sprint-1
Patient	Profile Management	USN-3	As a patient, I can update my profile details.	Updated details are saved in database.	Medium	Sprint-2
Patient	Search Doctor	USN-4	As a patient, I can search doctors by specialization.	System displays filtered doctor list.	High	Sprint-1
Patient	View Doctor Details	USN-5	As a patient, I can view doctor profile and availability.	Doctor details and available slots are shown.	High	Sprint-1
Patient	Book Appointment	USN-6	As a patient, I can book an appointment with selected doctor.	Appointment is stored and confirmation is shown.	High	Sprint-1
Patient	Cancel Appointment	USN-7	As a patient, I can cancel an appointment.	Appointment status updates to cancelled.	Medium	Sprint-2
Patient	Reschedule Appointment	USN-8	As a patient, I can reschedule my appointment.	New slot is updated successfully.	Medium	Sprint-2
Patient	Appointment History	USN-9	As a patient, I can view past and upcoming appointments.	List displays correct appointment history.	Medium	Sprint-2
Patient	Notifications	USN-10	As a patient, I receive appointment confirmation and reminders.	Email/notification is sent successfully.	Medium	Sprint-3

2. Doctor

User Type	Functional Requirement (Epic)	User Story No	User Story / Task	Acceptance Criteria	Priority	Release
Doctor	Registration	USN-11	As a doctor, I can register with specialization details.	Doctor profile is created pending admin approval.	High	Sprint-1
Doctor	Login	USN-12	As a doctor, I can log into my account.	Doctor dashboard is accessible.	High	Sprint-1
Doctor	Manage Availability	USN-13	As a doctor, I can update my available time slots.	Updated availability is reflected to patients.	High	Sprint-2
Doctor	View Appointments	USN-14	As a doctor, I can view scheduled appointments.	Appointments list displays correctly.	High	Sprint-1
Doctor	Approve/Reject Appointment	USN-15	As a doctor, I can approve or reject appointment requests.	Appointment status updates accordingly.	High	Sprint-2

3. Administrator

User Type	Functional Requirement (Epic)	User Story No	User Story / Task	Acceptance Criteria	Priority	Release
Admin	Manage Doctors	USN-16	As an admin, I can approve or reject doctor registrations.	Doctor status updates in system.	High	Sprint-1
Admin	Manage Users	USN-17	As an admin, I can view all registered users.	System displays complete user list.	High	Sprint-2
Admin	Manage Appointments	USN-18	As an admin, I can monitor all appointments.	All appointment records are visible.	High	Sprint-2
Admin	Dashboard Analytics	USN-19	As an admin, I can view system statistics.	Dashboard shows total users, doctors, appointments.	Medium	Sprint-3

Admin	System Control	USN-20	As an admin, I can block or remove users if needed.	Selected account is disabled successfully.	Medium	Sprint-3