

Project Design Phase-II

Data Flow Diagram & User Stories

Date	23 June 2025
Team ID	LTVIP2025TMID48939
Project Name	Docspot: Seamless Appointment Booking For Health

Project Title: DocSpot: Seamless Appointment Booking for Health

Domain: Healthcare Technology / Web & Mobile Application

Technology Used:

- Frontend: React.js, Bootstrap, HTML/CSS
- Backend: Node.js, Express.js
- Database: MongoDB
- Authentication: JWT, bcrypt
- APIs: RESTful API
- Hosting: Render / Vercel

Modules:

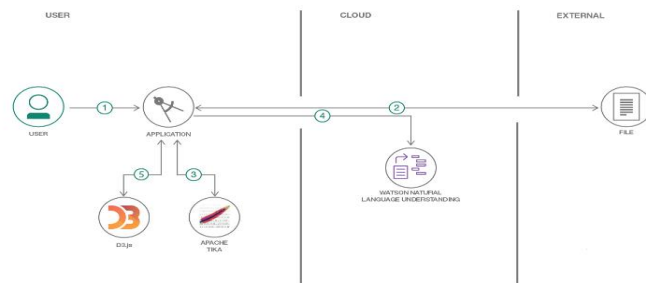
1. **Patient Module** – Search doctors, view profiles, book/cancel appointments, receive reminders.
2. **Doctor Module** – Manage schedule, view appointments, access patient records securely.
3. **Admin Dashboard** – Approve doctor accounts, view analytics, manage feedback and listings.

4. **Authentication** – Secure login for different user roles with session handling.
5. **Booking Engine** – Real-time slots, calendar integration, and automated confirmations.
6. **Records & Notifications** – Basic health record storage and notification alerts (email/SMS).

Key Features:

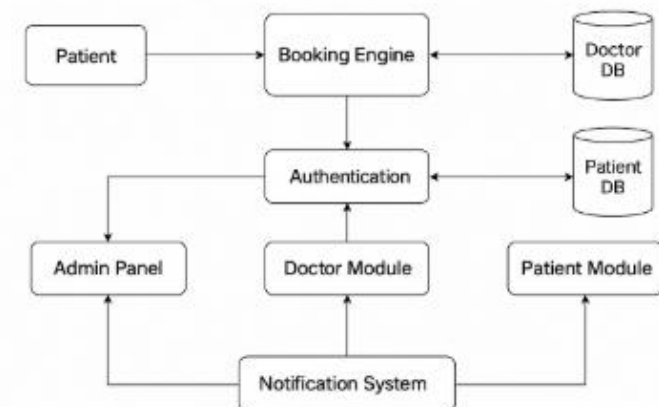
- 24/7 Appointment Booking
- Role-based Access Control
- Responsive Design for Mobile/Desktop
- Search Filter by Specialty, Location, and Availability
- Data Privacy and Secure Access

Flow



1. User configures credentials for the Watson Natural Language Understanding service and starts the app.
2. User selects data file to process and load.
3. Apache Tika extracts text from the data file.
4. Extracted text is passed to Watson NLU for enrichment.
5. Enriched data is visualized in the UI using the D3.js library.

DocSpot – Seamless Appointment Booking for Health



User Stories

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	High	Sprint-1
Customer (web user)	Registration	USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
Customer (Socail Media User)	Registration	USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
Customer (Mobile user)	Registration	USN-4	As a user, I can register for the application through Gmail	As a user, I can register for the application through Gmail. <i>Acceptance Criteria:</i> Gmail login provides immediate account setup and access to the dashboard.	Medium	Sprint-1
Customer (Mobile user)	Login	USN-5	As a user, I can log into the application by entering email & password	As a user, I can log into the application by entering email and password. <i>Acceptance Criteria:</i> I enter valid credentials and land on my personalized	High	Sprint-1
Customer (Mobile user)	Dashboar	<u>USN-7</u>	As a user, I can reset my password via email link. <i>Acceptance Criteria:</i> I receive reset link and can update password.	As a user, I can reset my password via email link. <i>Acceptance Criteria:</i> I receive the reset email, click the link, enter a new password, and log in successfully.	High	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Web user)	Doctor Search & Booking	USN-8	As a user, I can search doctors by specialty, location, and availability. <i>Acceptance Criteria:</i> I can view relevant doctors and select appointment slots.	As a user, I can search doctors by specialty, location, and availability. <i>Acceptance Criteria:</i> Search results show relevant doctors with booking options.	High	Sprint-1
Customer Care Executive	Doctor Search & Booking	USN-9	As a user, I can book and cancel appointments online. <i>Acceptance Criteria:</i> Appointment reflects in my dashboard with confirmation.	As a user, I can book and cancel appointments online. <i>Acceptance Criteria:</i> My dashboard reflects real-time booking confirmations and updated cancellations.	High	Sprint-1
Administrator	User Records	USN-10	As a user, I can view my appointment history and medical records. <i>Acceptance Criteria:</i> Dashboard displays past visits and uploaded documents.	As a user, I can view my appointment history and medical records. <i>Acceptance Criteria:</i> Past appointments and documents are accessible within my account.	Medium	Sprint-2