Ideation Phase
Brainstorm & Idea Prioritization Template

Date	16 February 2026
Team ID	LTVIP2026TMIDS35442
Project Name	DocSpot: Seamless Appointment Booking for Health
Maximum Marks	4 Marks

Team Members & Roles

Name	Role
Prathi Adithya Durga Sri Krishna Kumar	Full Stack Developer (MERN)
Botla Siva Satyanarayana	Full Stack Developer
Perabathula Satya Sai Manikanta	Frontend Developer
Satya Srithadi	Backend Developer

Step 1: Team Gathering, Collaboration, and Selecting the Problem Statement

Problem Statement:

To develop a seamless online doctor appointment booking platform called "DocSpot" that allows patients to easily find and book appointments with doctors, enables doctors to efficiently manage their schedules, and provides administrators with tools to oversee the entire healthcare ecosystem - ultimately improving healthcare accessibility and reducing the hassle of traditional appointment booking.

Motivation:

Booking a doctor's appointment traditionally involves long phone calls, waiting on hold, playing phone tag with busy receptionists, and limited visibility into doctor availability. Patients struggle to find the right doctor that matches their needs, while doctors face challenges in managing their schedules and reducing no-shows. DocSpot bridges this gap by providing a user-friendly online platform with real-time availability, doctor profiles, appointment management, and administrative oversight - making healthcare booking simple, transparent, and efficient for everyone.

Step 2: Brainstorming, Idea Listing, and Grouping

Initial Ideas:

- User registration and login system with email/password
- JWT-based authentication for security
- Browse doctors with filters (specialization, location, fees)
- Real-time doctor availability calendar
- One-click appointment booking
- Upload medical documents during booking
- Email notifications for confirmations and reminders
- Cancel and reschedule appointments
- View booking history in user dashboard
- Doctor registration with approval workflow
- Doctor profile management (qualifications, experience, fees)
- Doctor dashboard to manage appointments
- Approve/reject appointment requests
- Admin dashboard to monitor platform
- Admin approval for new doctor registrations
- User management for admins
- View all appointments across platform
- Responsive design for mobile and desktop
- Notification system for all users
- Secure password encryption with bcrypt
- MongoDB database for scalable data storage

- RESTful APIs for frontend-backend communication
- File upload system for medical documents
- Role-based access control (User/Doctor/Admin)
- Beautiful UI with Bootstrap and custom CSS
- Landing page with platform features
- About and Contact pages
- 404 error page handling
- Loading states and error handling
- Toast notifications for user feedback

Grouped into Modules:

Module	Features Included
1. Authentication Module	User Registration, Login, JWT Authentication, Password Encryption, Role-based Access
2. Doctor Discovery Module	Browse Doctors, Search Filters (Specialization, Location, Fees), Doctor Profiles, Availability Calendar
3. Appointment Booking Module	Book Appointment, Select Date/Time, Upload Documents, Instant Confirmation
4. Appointment Management Module	View Appointments, Cancel Appointment, Reschedule, Status Tracking (Pending/Approved/Completed)
5. Notification Module	Email Notifications, In-App Alerts, Appointment Reminders, Status Updates
6. Doctor Dashboard Module	Manage Schedule, View Requests, Approve/Reject Appointments, Profile Editing

Module	Features Included
7. Admin Dashboard Module	User Management, Doctor Approval, Platform Monitoring, View All Appointments
8. UI/UX Module	Responsive Design, Landing Page, Navigation Bar, Footer, Loading States, Error Handling
9. Profile Management Module	User Profile, Edit Details, View History, Notification Center
10. Database Module	MongoDB Schemas (Users, Doctors, Appointments), Data Relationships, Indexes

Step 3: Idea Prioritization (Final Version)

Feature / Module	Importance	Feasibility	Notes
Authentication Module	High	High	User registration and login with JWT – core requirement
Doctor Discovery Module	High	High	Browse and filter doctors – essential for user experience
Appointment Booking Module	High	High	Book appointments with date/time – primary functionality
Appointment Management Module	High	High	View, cancel, reschedule – user control

Feature / Module	Importance	Feasibility	Notes
Notification Module	High	Medium	Email confirmations and reminders – improves engagement
Doctor Dashboard Module	High	High	Doctors manage their appointments – critical for workflow
Admin Dashboard Module	High	High	Platform oversight and doctor approval – ensures trust
Profile Management Module	Medium	High	User profile and history – enhances personalization
UI/UX Module	High	High	Responsive, clean interface – key to user adoption
Database Module	High	High	MongoDB with proper schemas – foundation of the system