Project Design Phase
Proposed Solution Template

Date	15 February 2025
Team ID	LTVIP2026TMIDS88461
Project Name	DocSpot — Seamless Appointment Booking for Health
Maximum Marks	2 Marks

Proposed Solution Template:

S.No	Parameter	Description
1	**Problem Statement (Problem to be solved)**	Patients face difficulties in finding suitable doctors, checking availability, and booking appointments efficiently. Manual booking processes cause delays, double bookings, and poor communication between patients and healthcare providers.
2	**Idea / Solution Description**	DocSpot is a web and mobile-based appointment booking platform that enables patients to search for doctors by specialization and location, view real-time availability, and book appointments seamlessly. The system includes doctor approval workflows, automated notifications (Email/SMS/Push), document uploads, and admin monitoring.
3	**Novelty / Uniqueness**	• Real-time slot validation to prevent double booking• Integrated doctor approval workflow• Multi-channel notifications (Email, SMS, Push)• Secure medical document upload & access control• Role-based dashboards (Patient, Doctor, Admin)• Scalable cloud-ready architecture
4	**Social Impact / Customer Satisfaction**	• Reduces waiting time for patients• Improves healthcare accessibility• Enhances doctor visibility and transparency• Provides secure medical record handling• Improves patient satisfaction through reminders & easy rescheduling
5	**Business Model (Revenue Model)**	• Commission per appointment booking• Subscription plans for doctors (premium listing)• Featured doctor advertisements• Future integration of paid consultation services• Analytics subscription for hospitals/clinics
6	**Scalability of the Solution**	• Cloud-based deployment (AWS/GCP/Azure)• Horizontal backend scaling• Redis caching for performance optimization• Queue-based notification processing• Supports 1000+ concurrent users• Microservices-ready architecture