Project Design Phase

Problem – Solution Fit Template

Date	15 JUNE 2025
Team ID	LTVIP2025TMID46139
Project Name	DOC SPOT
Maximum Marks	2 Marks

Problem – Solution Fit overview:

DocSpot identifies this gap and focuses on solving it by providing a reliable, user-friendly, and secure platform where each stakeholder can perform their roles efficiently. This ensures a strong problem-solution fit, aligned with real-world challenges in healthcare appointment management.

Purpose:

The primary purpose of the DocSpot project is to create a centralized and user-friendly healthcare appointment booking system that simplifies the interaction between patients, doctors, and administrators. The system aims to eliminate the hassle of physical visits or phone calls for scheduling appointments by offering a convenient online platform.

Problem Statement:

- In many clinics and hospitals, the process of booking doctor appointments is still manual or semi-digital. This often leads to:
- Long waiting times
- Inefficient scheduling
- Miscommunication between patients and doctors
- Lack of transparency in doctor availability
- Difficulty for administrators to manage and verify doctors
- Patients face inconvenience in finding the right doctor, while doctors are unable to efficiently manage their schedules. The absence of a reliable, unified digital solution worsens the overall healthcare experience.

Solution:

- DocSpot addresses this problem by offering a robust MERN stack-based web application that includes:
- Patient Module: Enables users to register, search for doctors by specialization or availability, and book appointments seamlessly.
- Doctor Module: Allows doctors to register, update their profiles, manage available timings, and view scheduled appointments.Admin Module: Gives administrators control to approve or reject doctor registrations, manage users, and oversee appointments.

Key Features Include:

- Real-time appointment booking
- Admin verification for trusted healthcare services
- User-friendly dashboards for each role
- Secure login using JWT tokens
- Mobile-responsive design for accessibility