**Project Design Phase**

**Problem – Solution Fit Template**

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| Date | 15 JUNE 2025 |
| Team ID | LTVIP2025TMID46308 |
| 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.

**Project Purpose:**

**DocSpot** is designed to provide a seamless, centralized platform for booking and managing healthcare appointments. The goal is to remove the friction caused by manual booking systems and offer a digital alternative that enhances the experience for **patients**, **doctors**, and **administrators** alike.

By replacing phone-based or walk-in scheduling with an online system, DocSpot improves **convenience**, **efficiency**, and **transparency** in healthcare access.

**Problem Statement:**

**In many clinics and hospitals, the appointment booking process remains outdated and inefficient. This leads to a variety of operational and user experience challenges:**

* **Patients:**
  + **Struggle to find available doctors**
  + **Face long wait times**
  + **Experience miscommunication or missed appointments**
* **Doctors:**
  + **Have limited visibility into their schedule**
  + **Cannot manage time slots effectively**
* **Administrators:**
  + **Face difficulties verifying doctors**
  + **Lack tools to oversee system usage or user activity**

**These gaps contribute to a fragmented healthcare experience and lost time for all parties involved.**

**Solution:**

**DocSpot is a web-based application built using the MERN Stack (MongoDB, Express.js, React.js, Node.js). It delivers a comprehensive solution tailored to each stakeholder’s needs:**

**👨‍⚕️ Patient Features:**

* **Secure registration and login**
* **Doctor search by specialization, location, or availability**
* **Appointment booking, tracking, and notifications**

**🩺 Doctor Features:**

* **Profile creation and approval workflow**
* **Availability management**
* **View and respond to patient appointments**

**🛠 Admin Features:**

* **Review and approve/reject doctor applications**
* **Monitor users and activity**
* **Manage blocked users/doctors**

**Why This Solution Works**

DocSpot offers a **practical, modern, and scalable** solution to a clearly defined problem in healthcare scheduling. By delivering a platform that addresses the unique challenges of each stakeholder, it creates a **strong problem-solution alignment** and contributes to a more efficient and user-friendly healthcare system.

**Key Features Include:**

* Real-time booking with live availability
* 🔐 Secure JWT-based authentication
* 📊 Custom dashboards for patients, doctors, and admins
* 📱 Mobile-friendly and responsive design
* 📝 Verified doctor listings for improved trust