**Project Design Phase**

**Proposed Solution Template**

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| Date | 15 February 2025 |
| Team ID | LTVIP2025TMID55946 |
| Project Name | Docspot |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

Project team shall fill the following information in the proposed solution template.

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| **Section** | **Details** |
| **Project Title** | SmartHealth Scheduler: A Seamless Healthcare Appointment Booking Experience |
| **Problem Statement** | Patients face long wait times, non-intuitive systems, lack of personalized options, and poor integration with insurance and calendars. This results in frustration, missed appointments, and operational inefficiency. |
| **Solution Overview** | A smart, integrated booking platform that simplifies appointment scheduling, personalizes user experience, and automates routine tasks such as rescheduling, waitlist management, and insurance verification. |
| **Key Features** | 1. One-click rescheduling via SMS/app 2. Patient-provider preference matching 3. AI-based scheduling assistant 4. Waitlist auto-booking 5. Calendar integration 6. Insurance eligibility check |
| **Technology Stack** | - **Frontend:** React / React Native - **Backend:** Node.js / Django - **Database:** PostgreSQL / MongoDB - **AI Module:** Python ML engine - **APIs:** Google Calendar, Twilio, Stripe, HIE APIs - **Security:** OAuth 2.0, HIPAA-compliant encryption |
| **Target Users** | - Patients (including elderly and chronic care) - Clinic administrators and front-desk staff - Healthcare networks and insurers |
| **Benefits** | - Up to 50% reduction in no-show rates - Better patient retention and satisfaction - Less manual work for clinic staff - More efficient provider time management |