

# MEDICONNECT

A Software Engineering approach



# PROBLEM STATEMENT

01

## **INEFFICIENT APPOINTMENT SCHEDULING**

Inefficient appointment scheduling processes often lead to long waiting times for patients and difficulty in accessing timely medical care.

02

## **LACK OF ACCESS TO MEDICAL HISTORY**

Limited access to comprehensive medical history poses challenges for healthcare providers in making accurate diagnoses and treatment decisions.

03

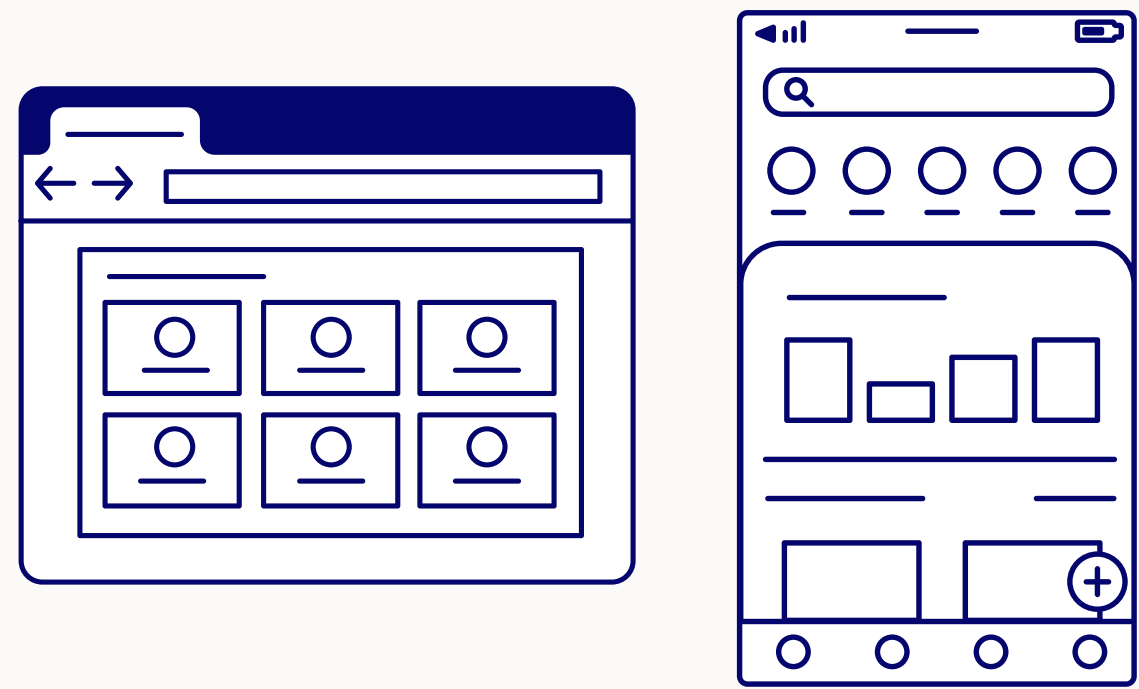
## **DIFFICULTY IN LOCATING DOCTORS**

Locating suitable doctors in the vicinity can be time-consuming and frustrating for patients and attendants, especially in unfamiliar areas.



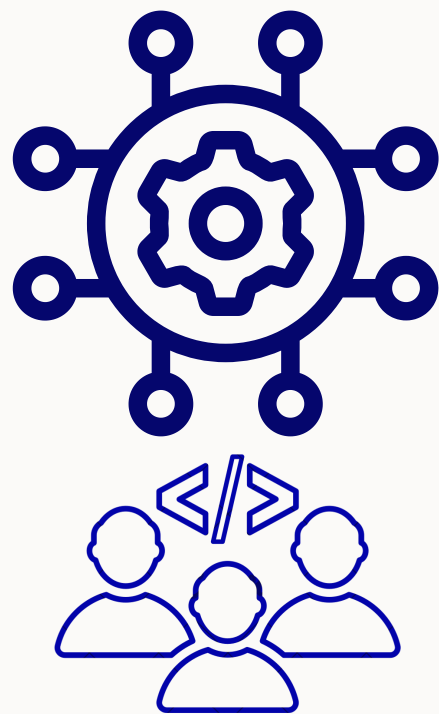
**CUSTOMERS POV**

**DEVELOPERS POV**

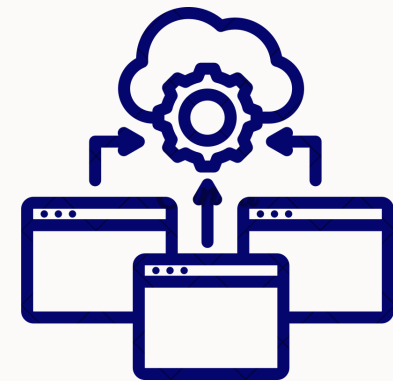


**INTERFACE**

Request  
Information



(Retrieves required  
information  
from Doctors database)



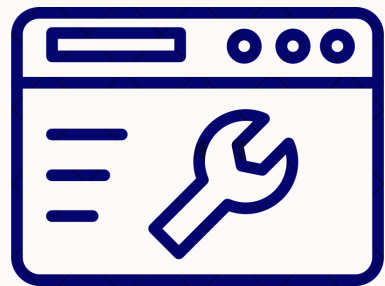
**System Integration**



**Doctors Database**

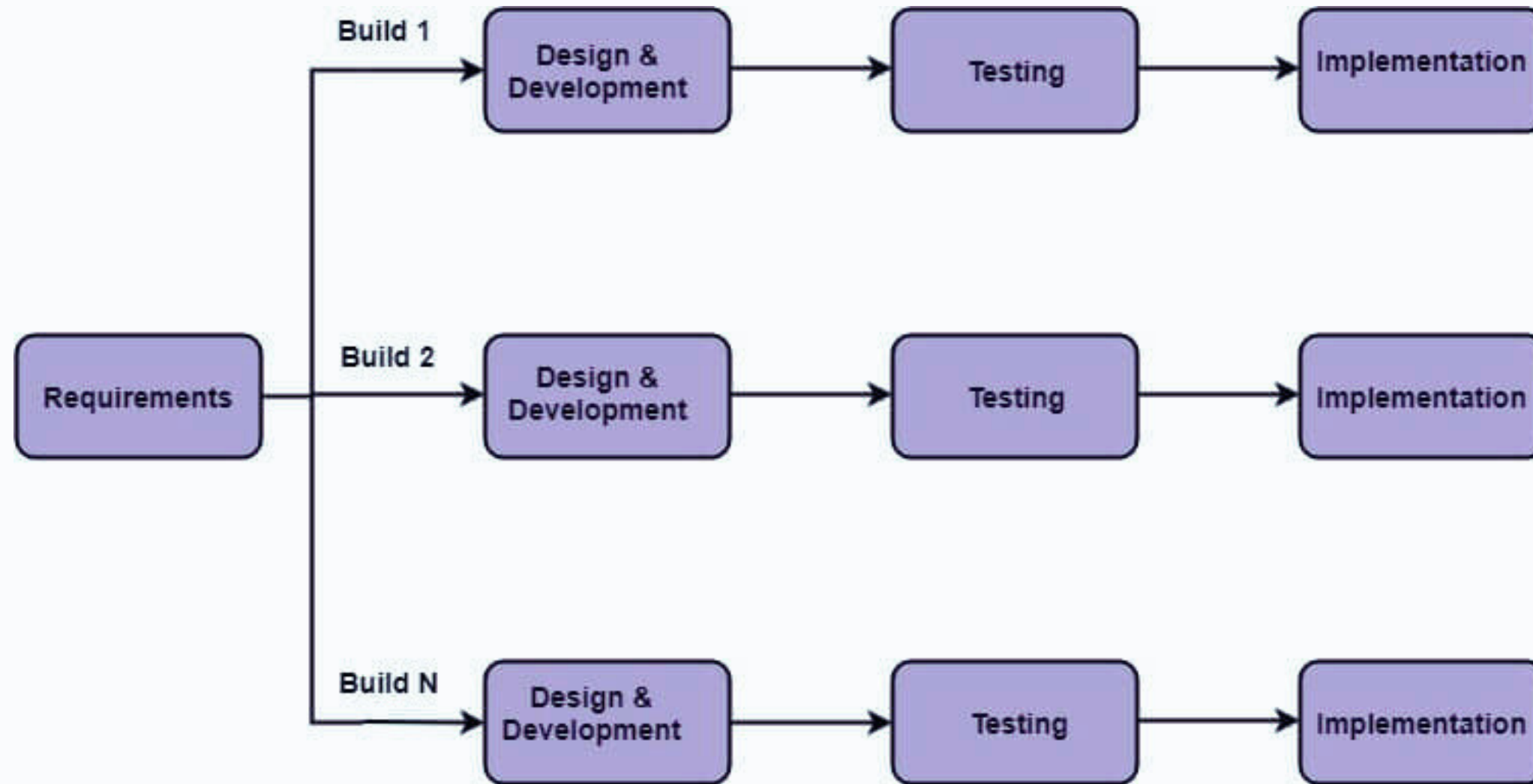


**Data Security**



**System optimization**

## SDLC MODEL USED : INCREMENTAL MODEL



### WHY INCREMENTAL MODEL?

- **Early Delivery:** Users benefit sooner
- **Flexibility:** Adaptable to changing needs
- **Risk Reduction:** Mitigates uncertainties
- **Feedback Loop:** Allows iterative improvements
- **Iterative Development:** Promotes ongoing refinement

# MITIGATING RISK IN MEDICONNECT

- **Identification of potential risks in developing MediConnect, such as:**
  - Technical challenges in integrating with hospital information systems and third-party APIs
  - Security risks associated with handling sensitive medical data
  - Usability challenges for users with varying levels of health literacy
- **Strategies for mitigating these risks:**
  - Thorough testing and validation of integration points
  - Implementation of robust security measures
  - User testing and feedback loops to ensure usability and accessibility.





# KEY FUNCTIONAL & NON-FUNCTIONAL REQUIREMENTS

- **Overview of functional requirements:**

- Patient/Attendant Module: Registration/Login, Appointment Booking, Medical History
- Doctor Module: Registration/Login, Appointment Management, Profile Management
- Medical Representative Module: Registration/Login, Doctor Schedules, Interaction
- Hospital Modules: Hospital Information, Doctor Directory

- **Explanation of external interface requirements including integration with hospital information systems, third-party APIs, and payment integration.**

- **Overview of non-functional requirements such as performance, security, usability, and reliability.**

