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VELOX DIAGNOSIS, VELOX CURE

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INTRODUCTION

An app designed to act as a public safe for storing hospital-related documents, providing AI-driven health analysis, and offering a comprehensive suite of features to improve healthcare accessibility, affordability, and personalization.
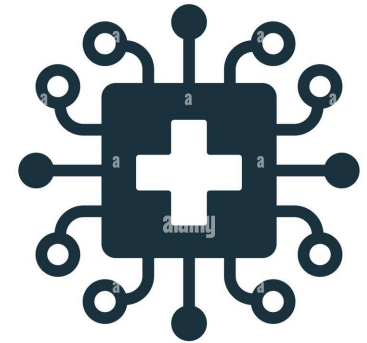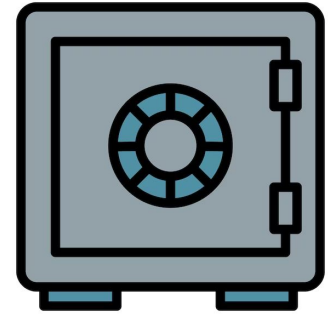
PROBLEM STATEMENT

Hospitals often struggle with fragmented data spread across multiple systems, making it difficult to provide cohesive and efficient patient care. This fragmentation hampers quick analysis for diagnosis, delays consultations, and impacts decision-making. Patients face additional challenges such as difficulty finding affordable pharmacies, navigating complex appointment booking systems, and keeping track of reminders for upcoming visits.
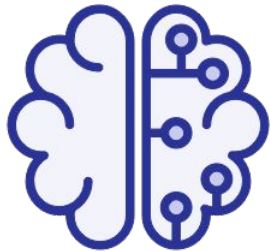
WHAT DOES THE APP DO ??!

- **DIGITAL DOCUMENT SAFE:**
  User uploads or receives medical reports from labs/hospitals. Accesses stored documents anytime via a secure dashboard.

- **AI ANALYSIS:**
  User uploads a blood test report, and the app explains key metrics with actionable insights.

- **NEAREST LAB/PHARMACY SEARCH:**

  User searches for affordable blood tests or medications in their locality. The app provides a list with filters for price, home collection, and reviews.

- **AI CHATBOT CONSULTANT:**

  User reports symptoms (e.g., fever, headache) to the chatbot. The chatbot suggests potential causes, medications, or tests.

- **HEALTH TRACKING:**

  User views a summary of past reports on a personalized dashboard.

- **NOTIFICATIONS & ALERTS:**

  App reminds the user of medication schedules or upcoming test appointments.

- **QUICK DIAGNOSIS:**

  User shares medical history, reports and past medications with doctors during consultations.

STAKEHOLDERS

PATIENTS

Needs : Access their medical records, appointment schedules, lab reports, prescriptions, and billing information.

Expectations : Secure login, user-friendly interface, and real-time updates.

Concerns : Data privacy, easy navigation, and error-free information.

DOCTORS

Needs : View patient history, manage appointments, update treatment plans, and access diagnostic results.

Expectations : An intuitive system that minimizes administrative overhead and integrates seamlessly with hospital workflows.

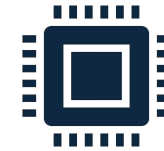**Concerns** : Accuracy of patient data and ease of use during high-pressure situations.

HOSPITAL ADMINS

Needs : Oversee operational metrics, manage staff schedules, and monitor overall hospital performance.

Expectations : Comprehensive dashboard analytics and customizable reporting.

Concerns : System scalability, uptime, and compliance with healthcare regulations.

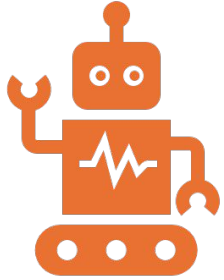## SUPPLIERS & VENDORS

Needs : Integration with the hospital system to manage inventory, billing, or equipment requests.

Expectations : Seamless integration and automated notifications for resource needs.

Concerns : Payment transparency and timely communication.

UNIQUE SELLING POINTS

Combines **AI-driven** insights with user-friendly document management.

Comprehensive diagnostic and pharmacy search with **cost comparisons** .

High focus on **data privacy** and **security** , ensuring user trust.

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App Development Cycle

Phase 1: Planning & Design

Topic selection, Requirement analysis and designing the user experience

Phase 2: Backend & Architecture

Backend setup, along with AI/ML model & third-party API integration

Phase 3: Frontend Development

Core app features and developing responsive UI

Phase 4: Testing & Debugging

Unit testing, Integration testing and User acceptance testing

Phase 5: Deployment & Launch
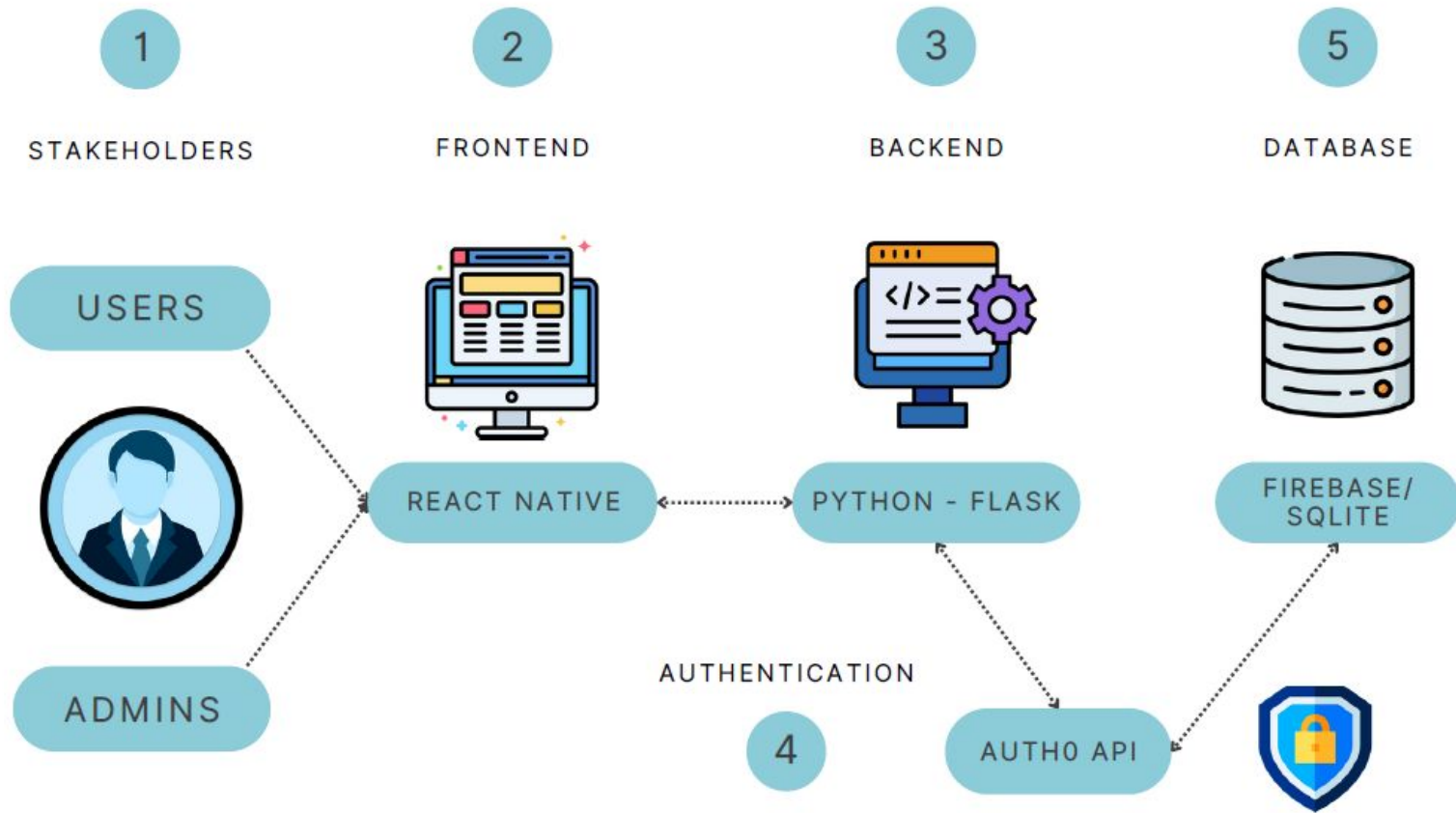
Possibly deploy to cloud servers & host the web interface

Phase 6: Patching & Optimizing

Collect user feedback and optimize model performances

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TECH STACK & APIs

1. **Front End :** React Native

2. **Back End :** Python (Flask/Django)

3. **Database :** Firebase/SQLite

I – User Auth & Management : Firebase, Auth0

II – File Storage : Firebase Storage, AWS S3

III – AI Analysis : Google Cloud Vision, AWS Comprehend

IV – Chatbot : Dialogflow, Rasa, Infermedica

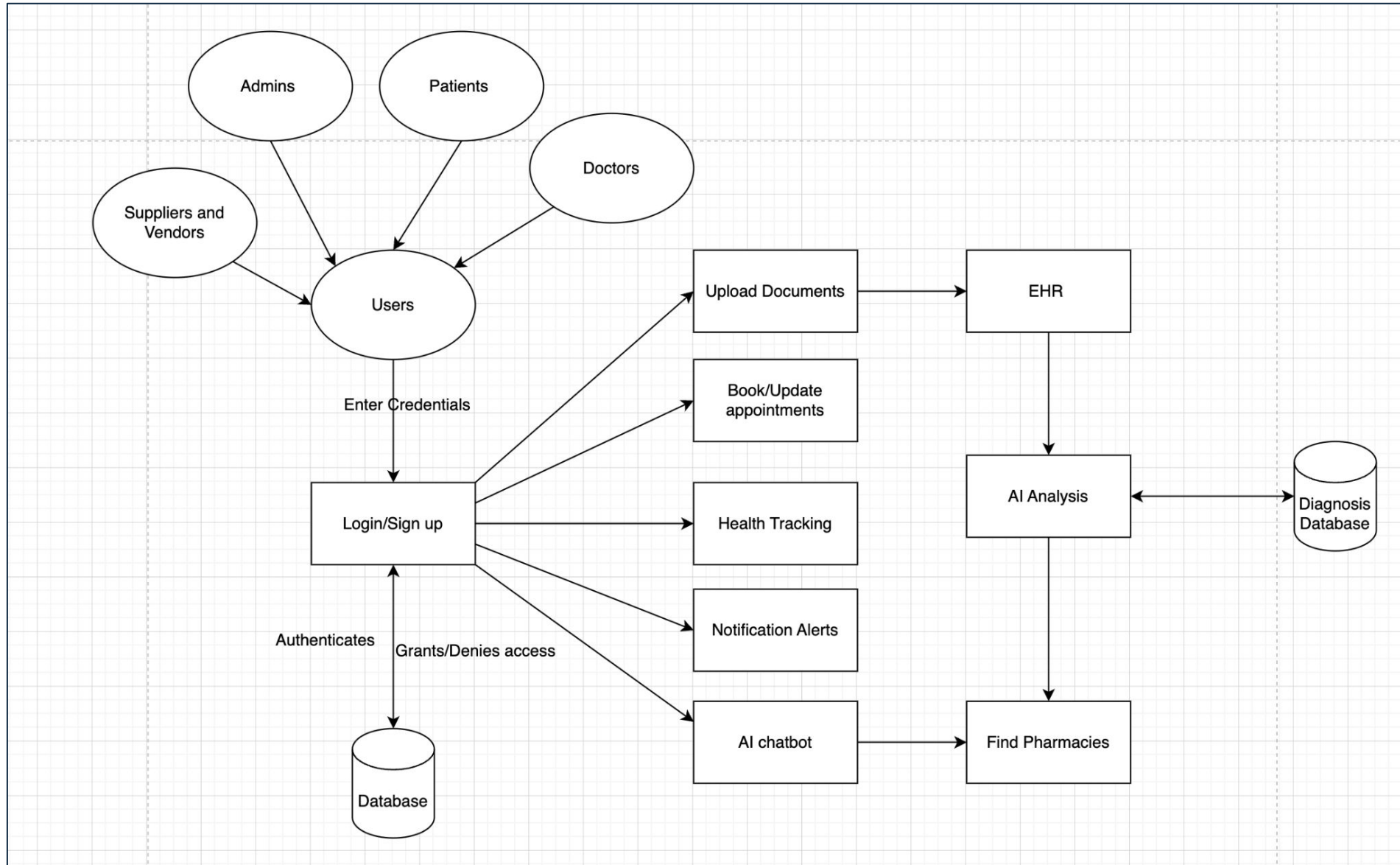**V – Notifications :** FCM (Firebase Cloud Messaging), OneSignal

VI – Location Services : Google Maps API

VII – Emergency Sharing : Twilio, SendGrid

VIII – Security : AWS KMS, Firebase App Check

DFD – Data Flow Diagram

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"velox diagnosis velox cure"

App Development Timeline

Gantt Chart

PROCESS	JANUARY & FEBRUARY				MARCH				APRIL			
	LI	LII	LIII	LIV	LV	LVI	LVII	LVIII	LIX	LX	LXI	LXII
Planning & Design	▓	▓										
Backend & Architecture			▓	▓	▓	▓	▓	▓				
AI/ML Integration			▓	▓	▓	▓	▓	▓	▓	▓		
Front End Development			▓	▓	▓	▓	▓					
Testing & Debugging						▓	▓	▓	▓	▓		
Deployment											▓	▓

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Further Updates

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