



Indira College of Commerce And Science (ICCS), Pune.

Project report
On

Healoria

“Healing made simple and trusted”

Group no. - 23

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Table of Contents

Sr. No.	Topic Name	Page No.
1	Introduction	4
2	Title / Problem Statement / Objectives	5
3	Scope of Project	6
4	Hardware Requirements	7
5	Software Requirements	8
6	Revenue Model	9
7	ER Diagram	10
8	UML Diagram	11
9	Class Diagram	12
10	Sequence Diagram	13
11	Collaboration Diagram	14
12	Activity Diagram	15
13	Component Diagram	16
14	Deployment Diagram	17
15	Data Model (Entities & Attributes)	18
16	Relationships	20
17	Interface Design (UI/UX)	21
18	Database Example (ERD)	22
19	Unique Selling Points (USPs)	23

20	Questionnaire (With Google form link)	24
21	Project Photos	28
22	Conclusion	29
23	Future Scope	30
24	References	31

Introduction

Healoria is an online platform (website + app in the future) that bridges the gap between patients and verified healthcare professionals.

It provides a convenient way for users to share their health issues and instantly access a list of verified doctors and hospitals relevant to their condition — complete with ratings, experience, consultation fees, and distance.

The platform also integrates an AI-based health assistant that provides home remedies and initial advice before professional consultation.

Users can either book an online consultation or schedule a hospital appointment securely through online payment.

Objectives

Title :

Healoria – The Smart Healthcare Consultation Platform.

Tagline - “Healing made simple and trusted”

Problem Statement :

In India and many other countries, patients often struggle to find trusted doctors or nearby hospitals suited to their specific health issues.

Traditional searches are confusing, time-consuming, and lack transparency about doctor experience, consultation fees, and availability.

Objectives :

- To develop a secure, verified doctor-patient connection platform.
- To provide AI-driven basic home remedies for common health issues.
- To display nearby hospitals specializing in user’s health issues.
- To enable online consultation or hospital appointment booking.
- To implement transparent payment and rating systems.
- To design a two-way revenue model benefiting both users and healthcare providers.

Scope of Project

1. Users can create profiles, describe their health issues, and search for experts.
2. AI assistant provides preliminary advice and possible causes.
3. Verified doctors and hospitals are listed based on relevance, rating, and location.
4. Users can pay fees online and connect via video consultation.
5. Hospital appointment booking with partial payment is available.
6. Doctors and hospitals have separate registration dashboards.
7. Subscription model for users to unlock AI and premium features.
8. Admin panel to manage verification, payments, and complaints.

Hardware Requirements

Component	Specification
Server	Intel Xeon / AMD Ryzen 5+, 8 GB RAM, 500 GB SSD
Client Device	PC or Smartphone (Android/iOS)
Network	Stable Internet connection
Backup	Cloud or external server for database backup

Software Requirements

Category	Technology
Frontend	React.js
Backend	Ruby on Rails
Database	PostgreSQL
AI System	Python (Flask) + TensorFlow / OpenAI API for suggestions
Map Integration	Google Maps API
Payment Gateway	Razorpay
Authentication	JWT
Hosting	AWS
Code Version Control	GitHub

Revenue Model

1. Commission Model :

When users pay a consultation or hospital booking fee, HealthConnect takes a small percentage (e.g., 5-10%) as a service charge.

Doctors and hospitals are aware of this before registration so they can set their fees accordingly.

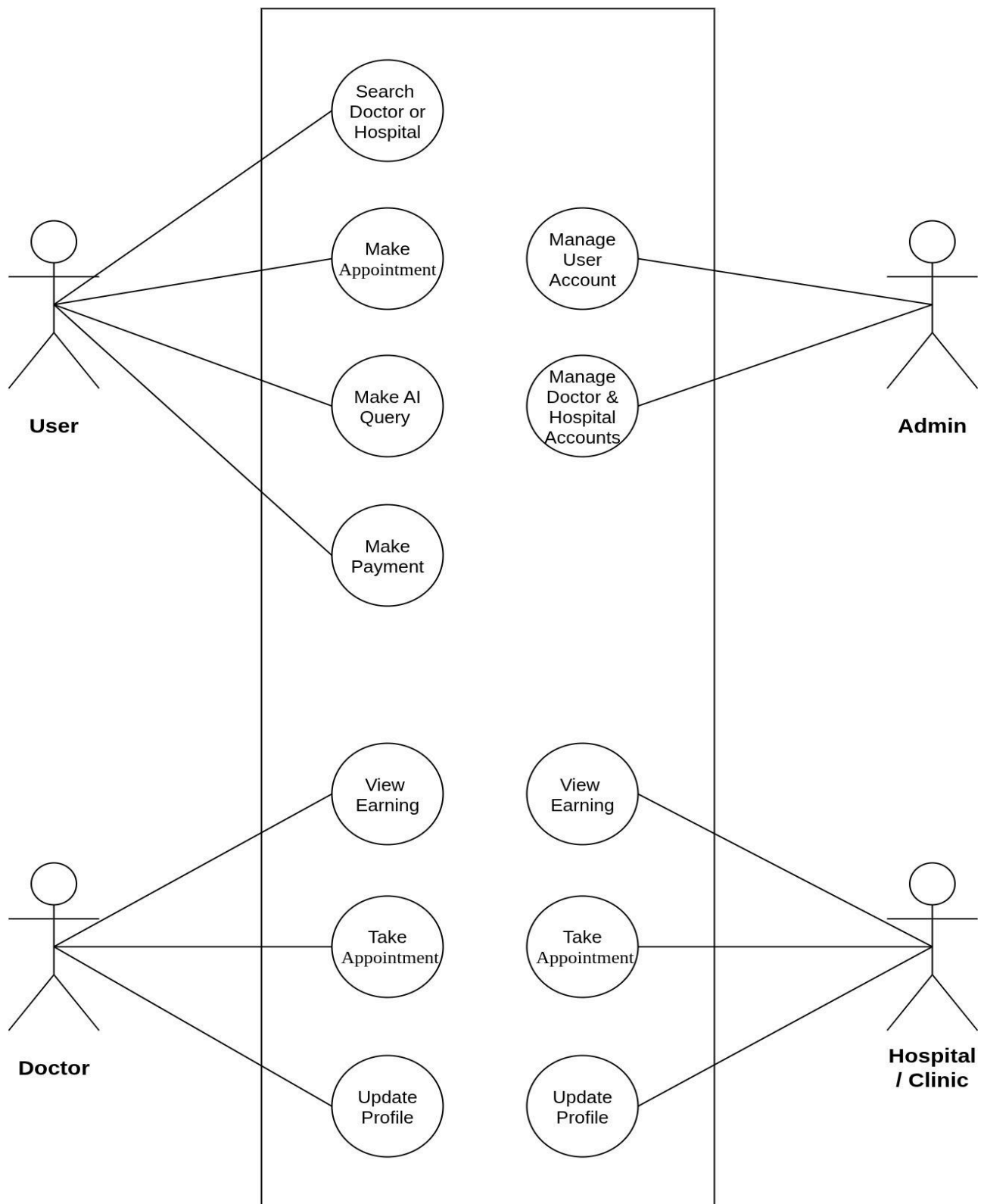
2. Subscription Model :

Users can choose a monthly or yearly plan to unlock premium features such as:

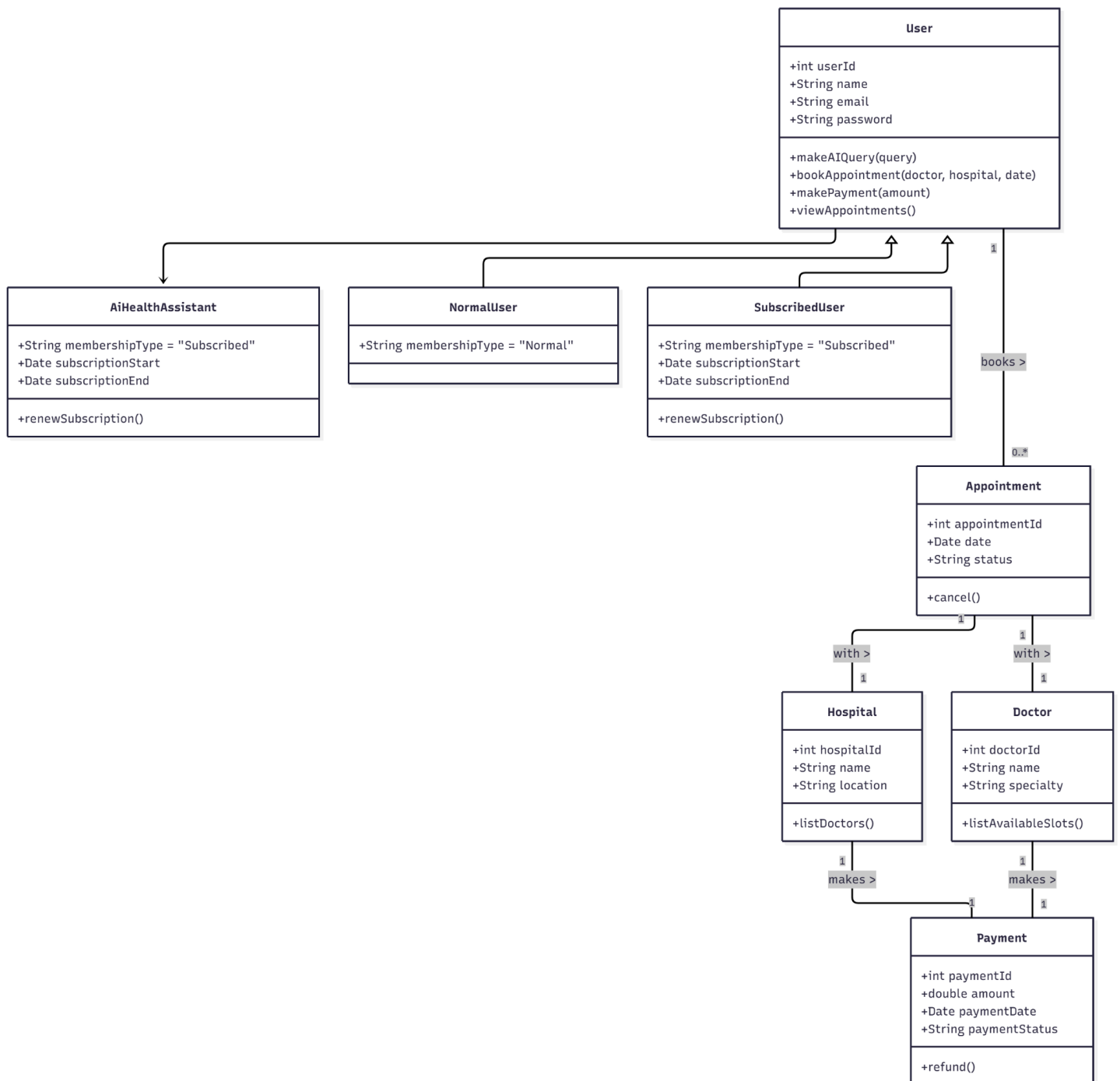
- Unlimited AI consultations
- Priority booking
- Discounted doctor fees
- Free follow-up sessions

ER Diagram

UML Diagram



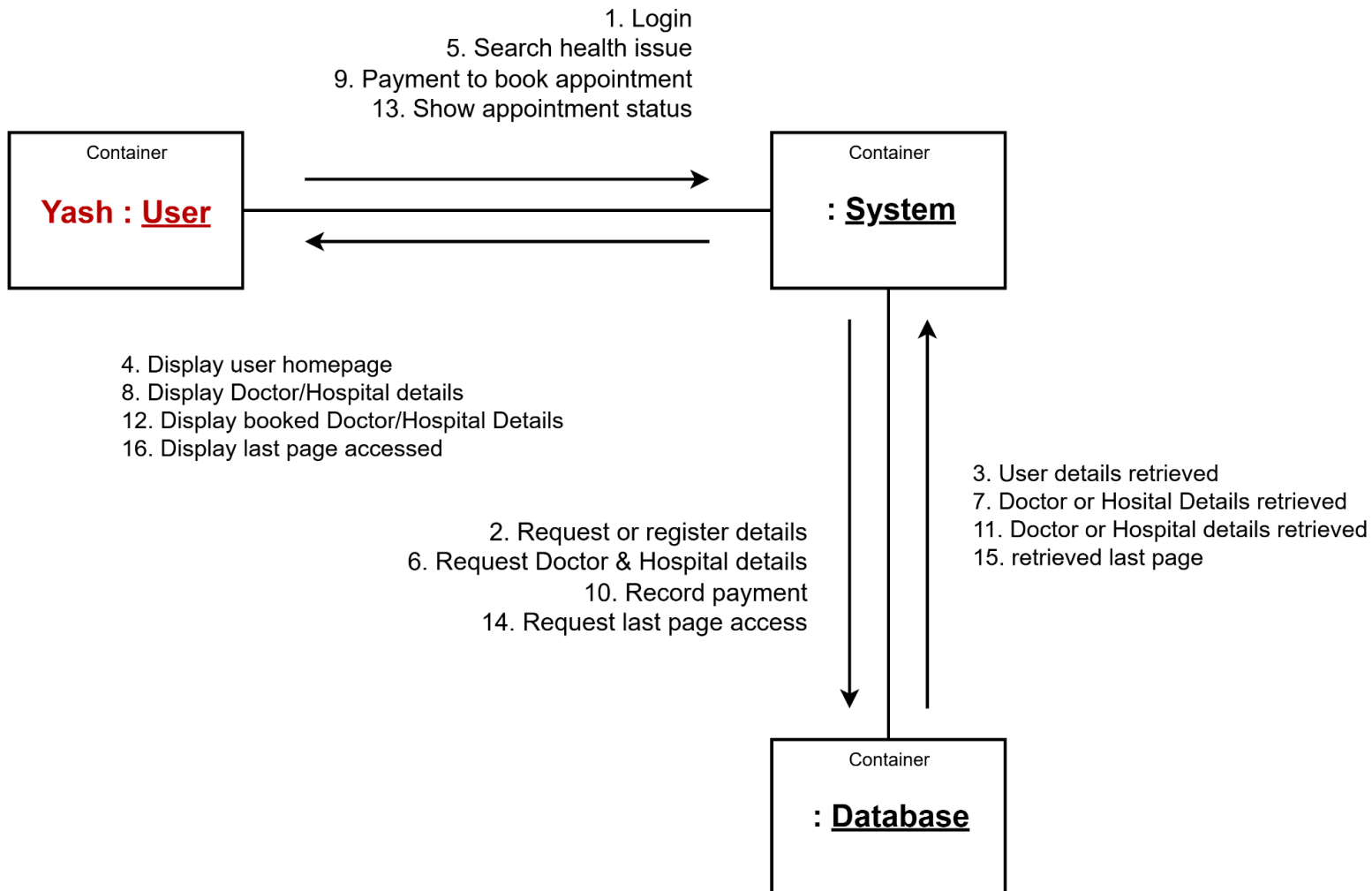
Class Diagram



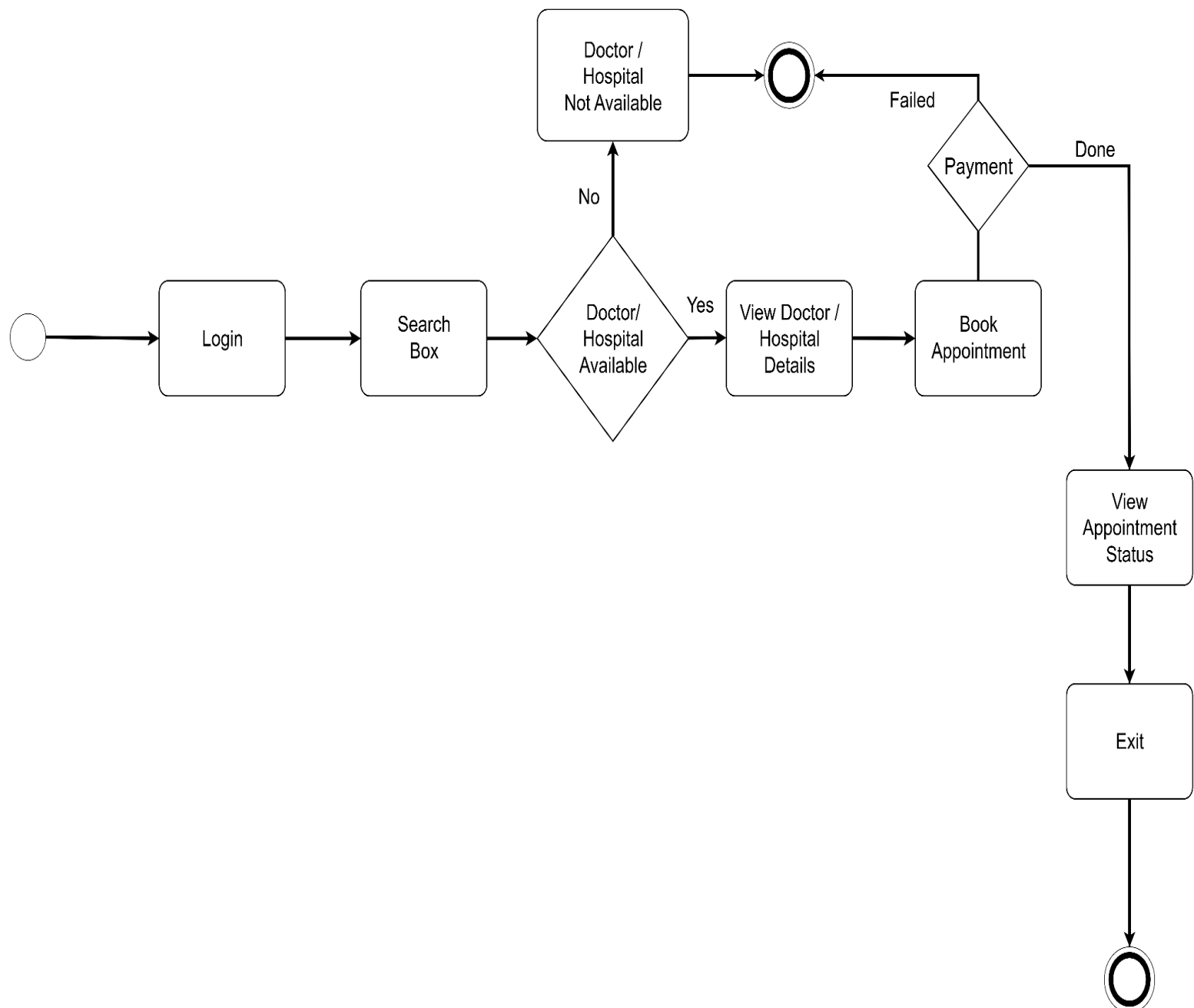
Sequence Diagram



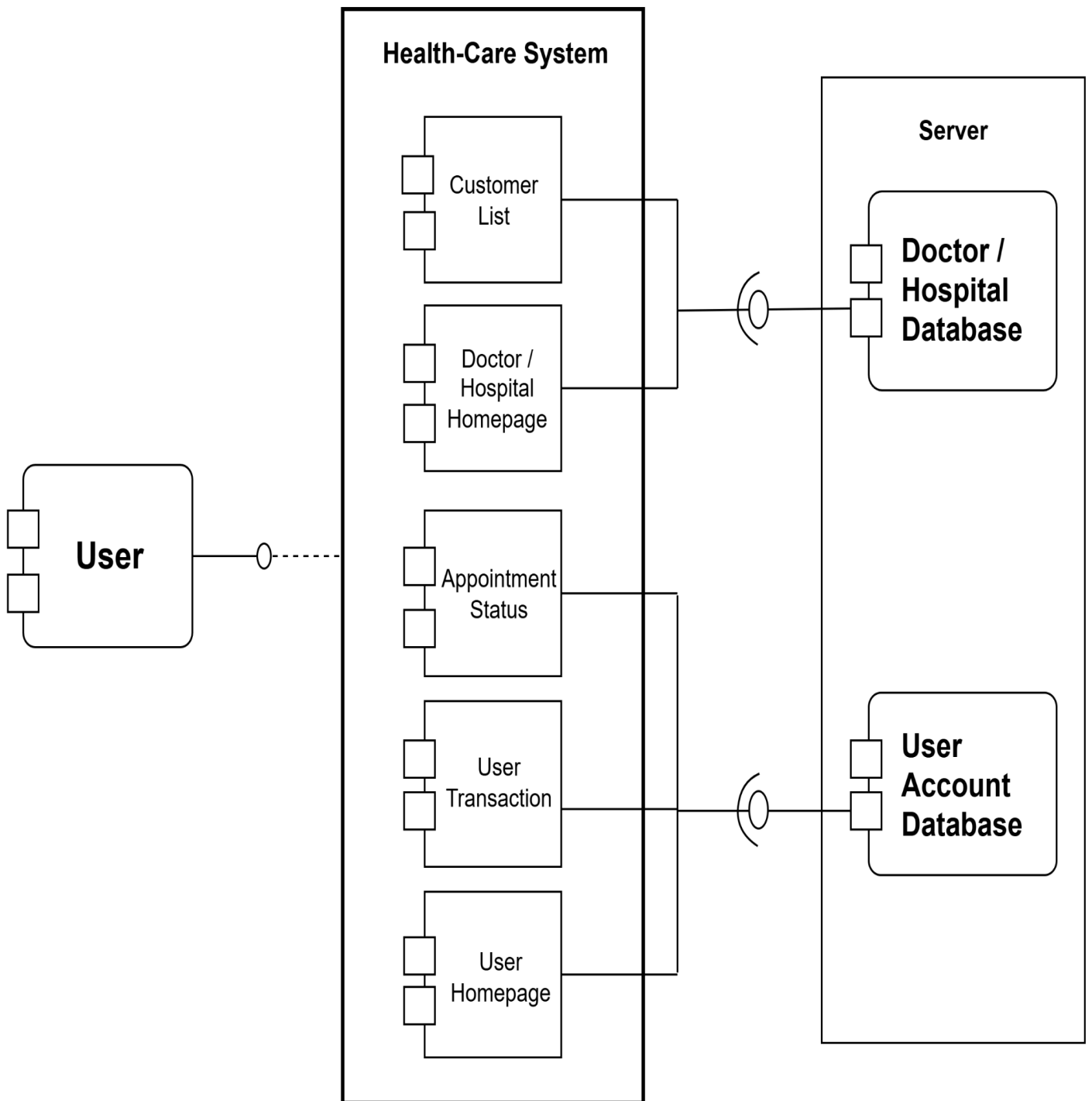
Collaboration Diagram



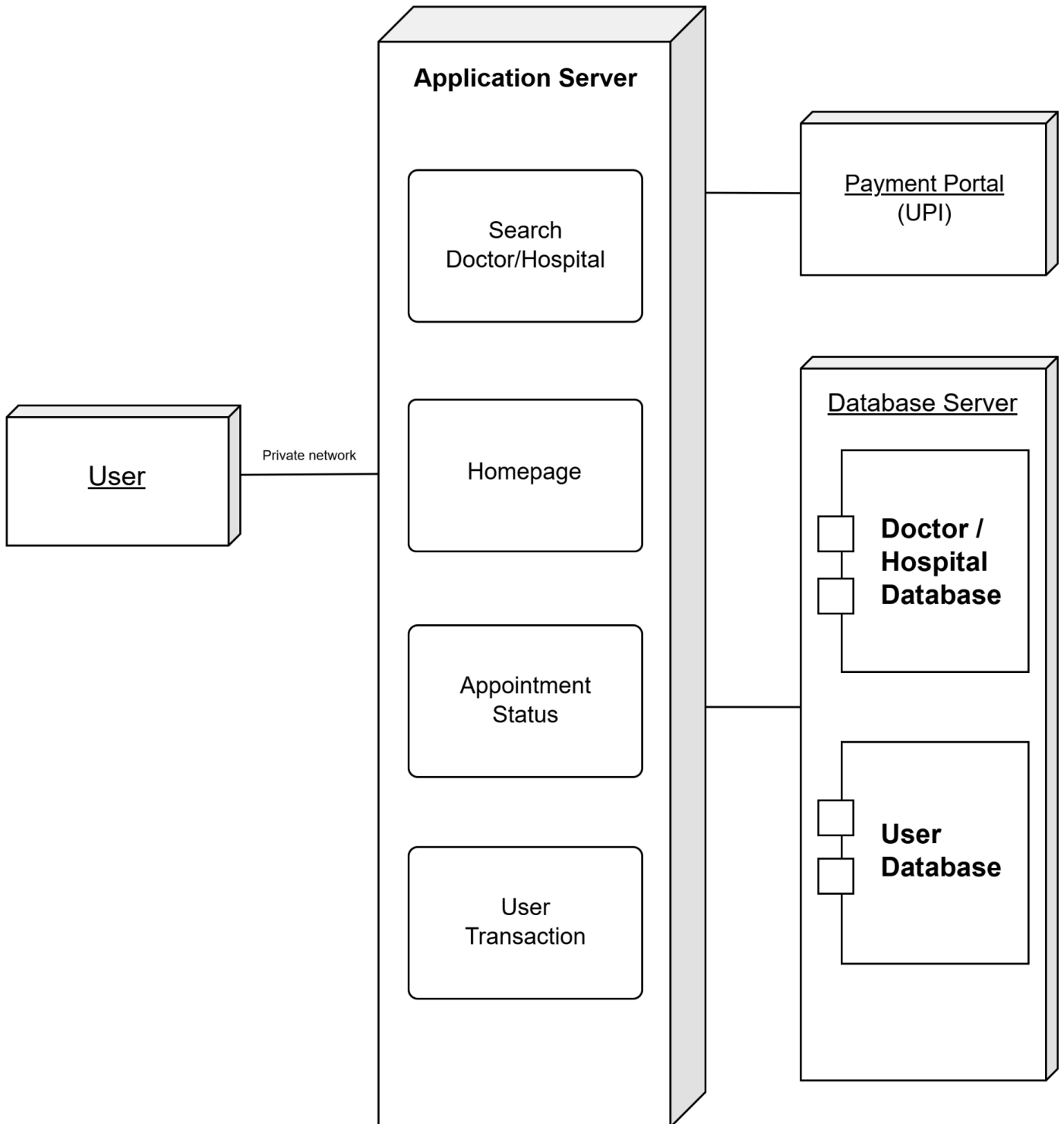
Activity Diagram



Component Diagram



Deployment Diagram



Data Model

(Entities & Attributes)

1. User -

- UserID (PK)
- Name
- Email
- Password
- Age
- Gender
- Address
- Health History

2. Doctor -

- DoctorID (PK)
- Name
- Specialization
- Experience (Years)
- Rating
- Consultation Fee
- HospitalID (FK)
- Verified (Boolean)

3. Hospital -

- HospitalID (PK)
- Name
- Location
- Specialization
- Rating
- BasicFee

4. Appointment -

- AppointmentID (PK)
- UserID (FK)
- DoctorID (FK) or HospitalID (FK)
- Date & Time
- Mode (Online / In-person)
- PaymentStatus

5. Payment -

- PaymentID (PK)

- AppointmentID (FK)
- UserID (FK)
- Amount
- PaymentType (Consultation / Booking)
- CommissionPercentage
- TransactionDate

6. AI Query -

- QueryID (PK)
- UserID (FK)
- Symptoms
- AIResponse

Relationships

1. One **User** can book multiple **Appointments**.
2. One **Doctor** belongs to one **Hospital**, but one **Hospital** has many **Doctors**.
3. One **User** can have many **AI Queries**.
4. Each **Payment** is linked to one **Appointment**.

Interface Design (UI/UX)

Page	Description
Home Page	Simple search bar: “Describe your health issue...”
Admin Dashboard	Manage doctors, hospitals, payments, and users
Appointment Page	Payment + confirmation section
Search Result Page	List of doctors + hospitals with filters (rating, fee, location)
Doctor Profile Page	Details, fees, ratings, “Book Now” button
Patient Profile page	Details, past and current appointment management
AI Assistant Page	Chatbot-style interface for instant home remedy advice

Database Example (ERD)

User (UserID, Name, Email, Password, Age, Gender)

Doctor (DoctorID, Name, Specialization, Experience, Rating, Fee, HospitalID)

Hospital (HospitalID, Name, Location, Rating, BasicFee)

Appointment (AppointmentID, UserID, DoctorID, Date, Mode, PaymentStatus)

Payment (PaymentID, UserID, Amount, Type, Commission, Date)

AIQuery (QueryID, UserID, Symptoms, AIResponse)

Unique Selling Points (USPs)

1. **AI + Doctor + Hospital Integration :**

No other app combines all three seamlessly in one system.

2. **Transparent Commission System :**

Doctors and hospitals know exactly what percentage goes to the platform — builds trust.

3. **Partial Payment for Hospital Appointments :**

Allows easy booking with smaller upfront fees — convenient for users.

4. **Homemade AI Health Remedies :**

An approachable first step before consultation — especially useful for rural areas.

5. **Dual Revenue Model :**

Both subscription (for users) + commission (from doctors/hospitals).

6. **Future App Integration :**

Can easily expand into a mobile app with React Native or Flutter.

Questionnaire

(With Google form link)

Name *

Email *

Phone Number *

Address *

What is your age group?

☐ Below 18

☐ 18–25

☐ 26–35

☐ 36–50

☐ Above 50

What is your gender?

☐ Male

☐ Female

☐ Other / Prefer not to say

What is your occupation?

Have you ever booked a doctor's appointment online before?

- ☐ Yes
- ☐ No

What challenges do you face while finding the right doctor or hospital?

- ☐ Long waiting times
- ☐ Not sure which doctor is best
- ☐ No nearby hospital information
- ☐ High consultation fees
- ☐ Others (please specify)

How do you currently find doctors or hospitals when you have a health issue?

- ☐ Friends / Family recommendations
- ☐ Google search
- ☐ Health apps / websites
- ☐ Local clinics

Would you like to see a feature that shows both doctors and nearby hospitals for your symptoms?

- ☐ Yes, that would be useful
- ☐ Maybe
- ☐ Not necessary

Would you trust an AI-based feature that suggests home remedies for minor health issues?

- ☐ Yes, I would trust it
- ☐ Maybe, if verified by experts
- ☐ No, I prefer only doctor consultation

Which feature would you find most useful in Healoria?

- ☐ Verified doctor list with ratings
- ☐ AI-based health suggestion
- ☐ Online payment & consultation

- ☐ Hospital appointment booking
- ☐ All of the above

How important is it for you to see doctor/hospital ratings and reviews before booking?

- ★ 1 - Not important
- ★★ 2
- ★★★ 3 - Neutral
- ★★★★ 4
- ★★★★★ 5 - Very important

Would you prefer video consultation or in-person appointment?

- ☐ Video consultation
- ☐ In-person
- ☐ Both options are good

Would you be willing to pay a small monthly subscription to use AI or premium features?

- ☐ Yes
- ☐ Maybe
- ☐ No

How likely are you to use Healoria if it's launched?

- ★ 1 - Not likely
- ★★ 2
- ★★★ 3
- ★★★★ 4
- ★★★★★ 5 - Very likely

What other features would you like to see in Healoria?

Would you like to be a beta tester when Healoria is launched?

- ☐ Yes
- ☐ No

What other comments or suggestions do you have regarding Healoria?

Google Form Link -

<https://forms.gle/wZp5UNB3JtARxWfy5>

Project Photos



Conclusion

Healoria provides a **modern and accessible healthcare solution** that reduces the gap between users and medical experts.

It integrates **AI assistance**, **verified consultations**, and **hospital booking** in one secure, easy-to-use platform.

The dual revenue model ensures **sustainability** while maintaining **user trust** and **affordability**.

This platform has great scalability potential to evolve into a **complete digital healthcare ecosystem** with mobile apps and telemedicine expansion.

Future Scope

1. Launch Android/iOS app using React Native.
2. Add video consultation and prescription upload features.
3. Integrate wearable health device data (Fitbit, smartwatch).
4. Build a doctor review & referral system.
5. Multilanguage support (English, Hindi, Marathi).

References

1. React.js Official Docs
2. Postgres Documentation
3. OpenAI API for AI health chatbot
4. Google Maps API Docs
5. Razorpay Developer API
6. "Clean Code" by Robert C. Martin