



UCS503

LifeAura AI

SANKALP

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Introduction

Overview: LifeAura AI is an intelligent health management platform designed to help users stay on top of their medication schedules, get quick symptom guidance, and receive AI-powered analysis for minor health issues using images.

Importance: Medication non-adherence and delays in first-aid guidance are common health risks. LifeAura AI provides reminders, prescription digitization, and instant health support.

Project Scope

Project Aims: To create a user-friendly health companion app that minimizes medication errors and provides quick, reliable AI assistance for understanding basic symptoms and first-aid guidance.

Deliverables:

- MERN-based web app.
- Medication scheduling & WhatsApp/SMS reminders.
- Prescription OCR scanning.
- AI symptom-checking chatbot.

Need Analysis

- **Problem Identification:** Healthcare gaps such as medication non-adherence, unclear doctor prescriptions, and delay in first aid often lead to preventable complications.
- **Target Users:** Elderly Individuals, people with chronic conditions, caregivers ,health-conscious general users.
- **Current Application Deficiencies:** Existing applications lack an integrated AI-driven approach combining reminders, image-based guidance, and symptom analysis. Life-Aura AI bridges this gap by providing a holistic health companion and immediate care awareness.

Need Analysis

Impact:

- **Before:**

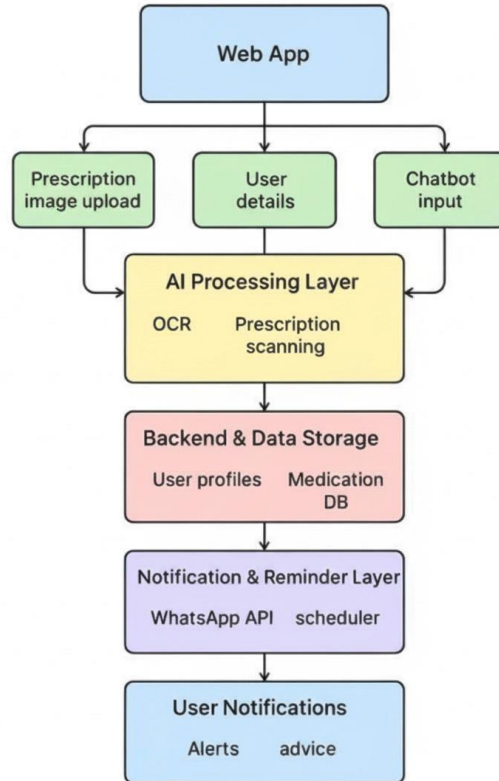
1. Elderly users, chronic patients, and caregivers often missed doses.
2. Misinterpretation of prescriptions, and minor symptoms are handled slowly, leading to preventable complications.

- **After LifeAura AI:**

1. Timely medication reminders ensure adherence.
2. OCR and AI interpret unclear prescriptions accurately.
3. Instant AI-assisted guidance for minor symptom.
4. Improves patient safety and confidence, enhancing overall wellness and public health reliability.

Proposed Functions

Visualization:



Reliability

- **Accuracy & Consistency:** LifeAura AI ensures accuracy and consistency through tested AI models and regular performance validation.
- **Data Protection:** Data protection is maintained through end-to-end encryption and secure authentication layers.
- **High Availability & Uptime:** System design emphasizes high availability and uptime with robust backend integration using MERN stack components.

Security Measures

Security Overview:

- End-to-end encryption for sensitive health data.
- Role-based access control.

Protection:

- API calls are encrypted.
- Data at rest is secured using AES-256 encryption.

Access Control: Secure Authentication Using JWT Tokens

Unique Selling Proposition

- **Integrated Features:** Combines AI-based symptom checking, OCR prescription scanning, and real-time reminders within a unified interface.
- **Trust & Personalization:** Builds user trust by ensuring transparency, reliability, and personalized recommendations.
- **Accessibility & User-Experience:** Focuses on user accessibility with simple design, clear visuals, and minimal input steps for quick interactions along with multi-language support.

Market Approach

- **Promotion & Awareness:** Targets health-conscious individuals, elderly users, and chronic patients. Promotes adoption via healthcare tie-ups, online campaigns, and academic collaborations.
- **Strategic Partnerships:** Clinics, hospitals, and telemedicine platforms can integrate LifeAura AI as a support tool and pharmacies can link reminders with prescription refills and dosage tracking.
- **Long Term Scalability:** Plans future integration with wearable devices, telehealth services, and AI-driven health data analytics for real-time personalized insights.

Conclusion

LifeAura AI bridges the gap between healthcare and technology by providing an accessible, AI-powered platform for managing daily wellness needs. Through integrated features such as smart reminders, prescription scanning, and symptom analysis, it ensures accuracy, reliability, and user trust. The project not only enhances individual health awareness but also sets the foundation for future scalability with wearable integration, telehealth services, and personalized AI-driven healthcare support.

Feedback Invitation: Please share your suggestions for features and interface design.