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ABSTRACT

The **AI-Based Healthcare Advisor & Tracker** is a web-based platform designed to assist users in monitoring their health, analysing symptoms, and receiving AI-driven medical insights. The system uses React.js for an intuitive user interface, Django for backend data processing, and TensorFlow/PyTorch for machine learning-based disease prediction and real-time health tracking.

The platform features an AI chatbot for health consultations, a symptom checker, integration with wearable devices (Google Fit/Apple HealthKit), and a medical record management system. Users can track vitals such as heart rate, blood pressure, and sleep patterns, set health goals, receive personalized fitness & nutrition plans, and book doctor appointments.

Secure authentication is handled using Firebase Auth and health data is stored in PostgreSQL.

By combining AI with real-time tracking, this system enhances preventive healthcare, promotes self-monitoring, and improves medical decision-making, making it a valuable tool for modern digital health management.

Users interact with the platform for **health monitoring, medical insights, and AI-powered assistance**. The system provides various features to help users track their well-being.

***User Actions & Features***

1.Symptom Analysis & AI Chatbot

* Users enter symptoms, and the AI predicts possible health conditions.
* The chatbot provides basic medical advice & lifestyle recommendations.

2.Personalized Health Recommendations

* Based on user data, AI suggests diet plans, workout routines, and mental health tips.
* Users set fitness & wellness goals.

3.Medical Record & Appointment Management

* Stores medical history, prescriptions, and test reports.
* Users can schedule doctor appointments & set medication reminders.

4.Emergency Alerts & Notifications

* Notifies emergency contacts or doctors in case of critical health conditions.