



**Academic Guide**  
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# WolfCare 2.0:

## AI-Enhanced Healthcare Solutions

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### ABSTRACT

WolfCare is an innovative healthcare management platform that simplifies the process of booking doctor appointments, providing a symptoms checker, and allowing users to manage their health portfolios effectively. Our proposed enhancements focus on three key areas: integrating MedPaLM-LLM for immediate AI-driven diagnoses, implementing appointment notifications through WhatsApp, email, or SMS for seamless communication, and incorporating Electronic Health Records (EHR) for personalized health insights and recommendations. Furthermore, we will revise the appointment cancellation policy to mitigate potential misuse while maintaining user flexibility. These improvements aim to create a more efficient, user-friendly healthcare experience, empowering patients with the tools they need for proactive health management.

### ENHANCEMENTS

#### Med-PaLM2 Integration

WolfCare will integrate Google's AI model, Med-PaLM 2, to enhance healthcare capabilities. This functionality will allow users to input symptoms and medical history, enabling Med-PaLM 2 to analyze the data and suggest possible conditions, as well as recommend next steps like seeking further medical evaluation or booking an appointment with a specialist. This aims to empower patients with immediate, AI-driven feedback, making healthcare more accessible and efficient.

#### EHR Analysis

The EHR reader functionality allows patients to upload their medical reports, from which relevant information is extracted using PDF processing. This data is analyzed by the LLM, summarizing the report for the patient and securely storing it for both the doctor and patient before their appointment. This feature aims to save consultation time and enhance care quality by providing personalized recommendations, including lifestyle changes and preventative measures, based on the patient's unique medical profile.

#### Reminder System

WolfCare will implement a robust communication system powered by Twilio to deliver notifications via email, WhatsApp, and SMS. This functionality will ensure that patients receive timely reminders for upcoming appointments, medication schedules, and other essential health-related alerts. By leveraging multiple communication channels, it aims to enhance patient engagement and adherence to treatment plans. This integration will facilitate improved communication between patients and healthcare providers, leading to better health outcomes and a more proactive approach to healthcare management.



MedPaLM2



LLaMa 7B



#### Overview

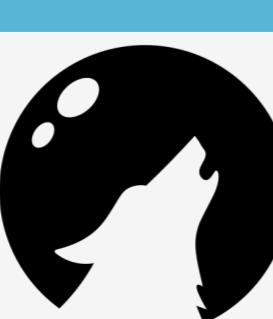
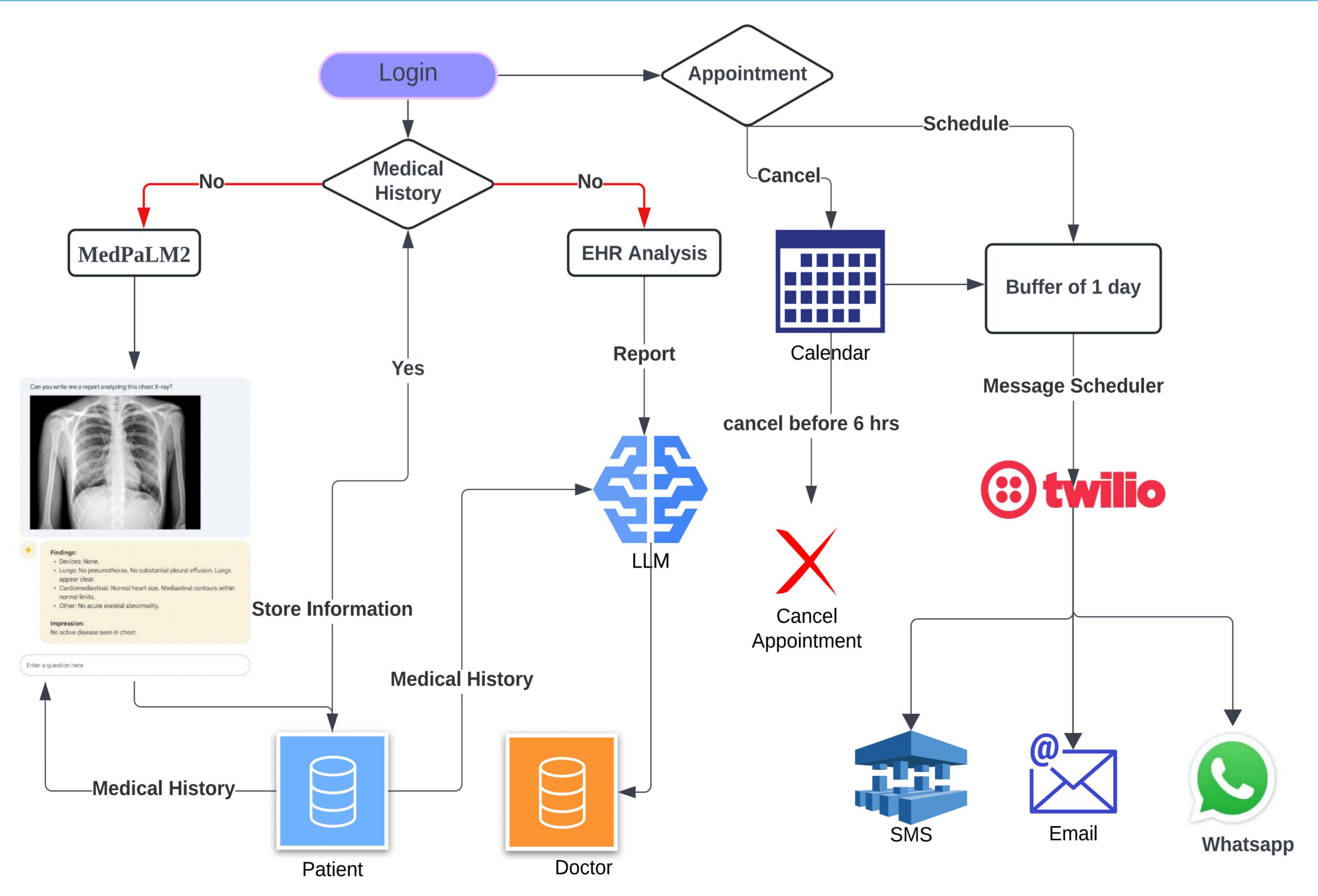
WolfCare is an innovative healthcare management application designed to enhance patient engagement and streamline the doctor appointment process. Users can create accounts, search for local doctors, view medical profiles, and easily book appointments. The platform also features a comprehensive symptoms checker, enabling users to input test results for preliminary assessments, thus fostering a proactive approach to health management. The latest version of WolfCare includes a complete UI overhaul, making it more user-friendly and allowing access to certain functionalities without requiring users to log in.

### INTRODUCTION

#### Features

The latest implementation of WolfCare introduces several significant enhancements to improve user experience. Users can now browse a list of affiliated hospitals and utilize the symptom checker without logging in. Additionally, doctors and hospitals can onboard themselves through a streamlined registration process, with an admin panel to verify their legitimacy. Notably, this version boasts 60 test cases, ensuring robust functionality and reliable performance. These features collectively aim to make healthcare services more accessible and efficient.

### TECHNOLOGY STACK



WolfCare 2.0 is designed to revolutionize patient care by integrating advanced AI-driven tools and streamlined communication. From symptom analysis to EHR summaries and automated appointment reminders, WolfCare makes healthcare more efficient, accessible, and personalized, ensuring patients receive the care they need when they need it.

### SUMMARY

WolfCare is enhancing healthcare management with innovative features. The app will integrate Med-PaLM 2 for personalized symptom analysis and condition suggestions. An EHR reader will enable efficient report uploads, offering tailored care recommendations. A communication system using Twilio will send timely reminders via email, WhatsApp, and SMS to boost patient engagement. Additionally, the appointment cancellation feature will be revised for responsible use. These improvements aim to enhance healthcare accessibility and quality for users.

### SCAN ME



Github



Live demo