

HealthHub: A Healthcare Data Management System

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1 Introduction

Healthhub is a web-based platform designed to simplify and centralize the management of medical appointments. It offers dedicated features for both patients and healthcare professionals. Regular users can search for doctors, book visits, and leave reviews, while medical professionals can manage the services they offer and track their appointments.

- Allow users to search for medical professionals and retrieve information on their services
- Allow users to book appointments and review doctors after a visit
- Allow users to manage their appointment history and cancel or modify bookings
- Give users recommendations on doctors based on their location and past activity
- Allow doctors to specify their specializations, availability, and offered services
- Allow doctors to view and manage their upcoming appointments

2 Dataset and Web Scraping

To populate the dataset for our application, we used a combination of web scraping, synthetic data generation, and logical inference based on real-world patterns of user behavior.

2.1 Web Scraping

The initial data was scraped from a platform containing medical reviews