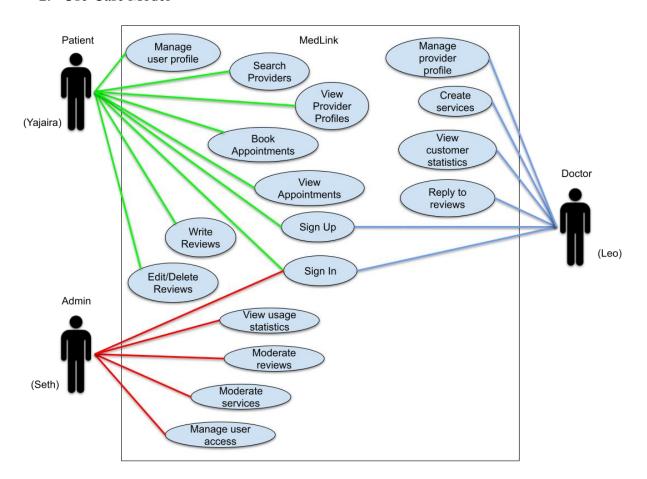# Design Document

MedLink

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Version 1

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1. Project Overview

Medlink is a web app that will allow users to effortlessly find healthcare professionals. Users can search for healthcare professionals by browsing their profiles, checking their availability, and booking appointments that work for them. When browsing, users can filter their search based on specialty, location, and availability. After the users visit, they can leave reviews based on their experience. Healthcare professionals can create profiles, post their availability, and view their reviews through the web application. Admins are responsible for managing accounts, services, and reviews. They are also able to view usage statistics such as user activity, provider engagement, and overall system performance.

2. Use-Case Model

3. Database Schema

Sysadmin

medlink-db user
- user_id: int (10)
- first_name: varchar (100)
- last_name: varchar (100)
- dob : date
- address: varchar (255)
- phone_number: int (20)
- email: varchar (100)
- password: varchar (255)
- role: ENUM ('Patient', 'Provider')
- profile_picture: varchar (255)
- created_at: timestamp
- updated_at: timestamp

medlink-db healthcare provider
- provider_id: int (10)
- name: varchar (100)
- specialty: varchar (100)
- license_number: varchar(50)
- location: varchar (255)
- qualifications: text
- availability: json
- created_at: timestamp
- updated_at: timestamp

Ban or suspend users

Moderate/Delete Reviews

medlink-db review
- review_id: int (10)
- user_id: int (10)
- patient_id: int (10)
- provider_id: int (10)
- rating: int (10)
- comment: text
- created_at: timestamp
- updated_at: timestamp

medlink-db patient
- patient_id: int (10)
- insurance_provider: varchar(100)
- medical_history: text

medlink-db documents
- document_id: int (10)
- patient_id: int (10)
- provider_id: int (10)
- document_name: varchar(255)
- document_url: varchar(255)
- created_at: timestamp

medlink-db notes
- provider_id: int (10)
- note_id: int (10)
- patient_id: int (10)
- appointment_date: timestamp
- note_content: text
- treatment: text

medlink-db appointment
- appointment_id: int (10)
- user_id: int (10)
- patient_id: int (10)
- provider_id: int (10)
- appointment_date : date
- appointment_time: time
- status: ENUM ('Scheduled', 'Completed', 'Cancelled')
- created_at: timestamp
- updated_at: timestamp