

Project Requirement Analysis

Project Description

The online medical system is a platform that aims to improve access to healthcare for patients who face physical or geographical barriers. It facilitates communication between doctors and patients, enabling patients to schedule appointments, ask non-emergency questions, and request prescriptions. The platform is designed to be user-friendly, with accessibility features like large fonts and screen readers for users with disabilities.

Target Users

The online medical system is designed for the following target users:

1. Seniors
2. Disabled people
3. People living in rural areas

Assumptions

- Users have access to a stable internet connection.
- Users have basic computer literacy and can navigate web interfaces.
- Doctors have the necessary qualifications and licenses to practice medicine.
- Patients have a basic understanding of their medical conditions and can provide accurate information to doctors.
- Patients have access to a pharmacy to fill their prescriptions.

Functional Requirements

The online medical system must have the following functionality:

- User registration and authentication
- Scheduling of appointments with doctors
- Ability for patients to ask questions to doctors
- Ability for doctors to review and respond to patient questions
- Ability for doctors to prescribe medications to patients
- Ability for patients to view and manage their prescriptions
- A messaging system for doctors and patients to communicate
- Ability for patients to view their upcoming appointments and receive reminders

Non-functional Requirements

The online medical system must meet the following non-functional requirements:

- User-friendly interface that is easy to navigate
- Accessibility features for seniors, disabled people, and people in rural areas
- Secure and reliable system to protect user data
- Fast and responsive system to reduce waiting times and improve user experience
- Compatibility with various devices and internet browsers

User Stories

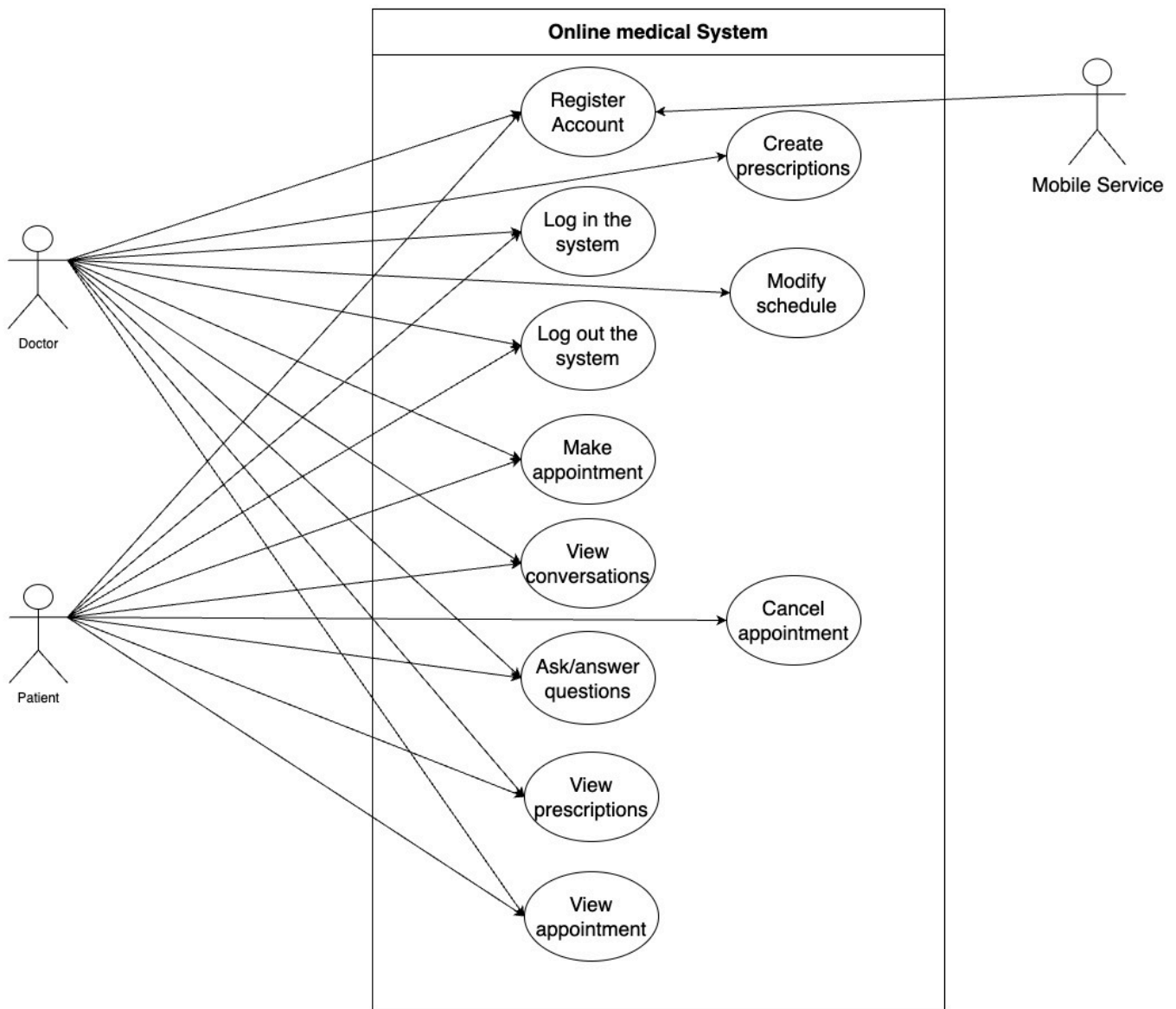
User

1. As a user, I want to **be able to register my account** so that **I can log in to the system**.
2. As a user, I want to **be able to log out of my account after using the system** so that **I can protect my privacy**.
3. As a user, I want to **be able to log in with an accurate username and password** so that **I can use the functions of the system**.
4. As a user, I want to **be able to view my previous or future appointments** so that **I can prepare or review them**.

Patient

1. As a patient, I want to **be able to view all the prescriptions I have** so that I can **track my medical history**.
2. As a patient, I want to **be able to make appointments** so that I can **meet doctor in person**.
3. As a patient, I want to **be able to cancel my appointments** so that I can **make it fit my schedule**.

User Case Diagram



Glossary

- **Online Medical System:** A web-based platform designed to facilitate communication between doctors and patients, allowing users to schedule appointments, ask questions, and request prescriptions.
- **User:** A person who registers for and uses the online medical system.
- **Patient:** A user who seeks medical attention from a doctor through the online medical system.
- **Doctor:** A licensed medical practitioner who provides medical attention and advice to patients through the online medical system.
- **Prescription:** An order for medication issued by a doctor to a patient through the online medical system.
- **Appointment:** A scheduled time slot for a patient to meet with a doctor through the online medical system.
- **Messaging System:** A feature of the online medical system that allows doctors and patients to communicate with each other.

- **Authentication:** The process of verifying the identity of a user before allowing access to the online medical system.
- **Accessibility Features:** Special accommodations built into the online medical system to make it easier for seniors, disabled people, and people in rural areas to use.
- **User Interface:** The graphical user interface (GUI) of the online medical system, which allows users to interact with the system.
- **Security:** The measures put in place to protect user data from unauthorized access or disclosure.