Doctor Appointments App: Technical Requirements

Task Analysis for the Patient-Doctor Appointment Booking App

1. User Roles & Actions

- **Doctor (Ιατρός)**

  - Register to the system with personal details (licenceID, full name, specialty, contact details (email,phone), bio, office location, ratings, password).
  - Manage availability (set available days/hours for appointments).
  - View scheduled appointments. (possible integration with calendar)
  - Cancel an appointment if necessary.
  - View ratings.
  - (Send messages to patients - LLM)

- **Patient (Ασθενής)**

  - Register using AMKA, full name, contact details (email,phone) and a password.
  - Log in to the system.
  - Search for doctors by specialty and location.
  - View available doctors.
  - Check doctor's availability (sooner to later).
  - Book an appointment by selecting a date/time and stating the reason (text field).
  - Cancel a booked appointment.
  - View scheduled appointments (weekly/monthly).
  - View appointment history (and also rate).

2. Core Functionalities & Task Breakdown

User Registration & Authentication

- Patient enters AMKA, full name, contact details (email,phone) to register.
- Patient enters AMKA and password to login.
- Doctor enters licenceID, full name, specialty, contact details (email,phone), bio, office location, ratings to register.
- Doctor enters licenceID and password to login.

Doctor Management & Availability

- Doctors set their available time slots.
- Doctors can modify availability.

Searching for Doctors & Viewing Availability (for patient)

- Patient selects specialty.
- Patient selects location (from pre-selected ones).

- System displays a list of available doctors (use filters).
- Patient clicks on a doctor of his choosing.

Appointment Booking & Management

- Patient selects an available time slot.
- Patient provides a reason for the appointment (optional).
- System confirms and stores the booking.
- Patient can cancel a booked appointment.
- Patient views scheduled appointments (weekly/monthly).

Appointment Display & Notifications

- System provides an overview of upcoming appointments.
- Patients receive notifications/reminders for appointments (optional).

3. System Requirements & Considerations

- **Database**: Store doctor and patient information, appointments, and availability.
- **Authentication & Security**: Protect AMKA and user credentials. (salted + hashed)
- **User Interface**: Intuitive UI for booking and managing appointments.
- **Scalability**: Handle multiple users simultaneously.