**Requirements**

***Patient***

1. **Make an appointment** – as a patient, I need to schedule an appointment in the hospital app by following these steps:
   * From the patient dashboard, I can press a button to navigate to the appointment scheduling form, where I can fill out the required details using dropdown lists as follows:
     1. Select a department (e.g. Radiology, Cardiology, Dentistry, ORL, etc.)
     2. Select a procedure from the chosen department (e.g. mrn, basic medical record, teeth removal, etc.). A procedure list is available for every specific department (radiology can do rmn, dentist can do teeth removal, etc.)
     3. Select a doctor from the chosen department. A dropdown will show a list with available doctors and their ratings)
     4. Choose a day using a date selector. The available range is within a 30-day time span starting from the day I am filling in this form. Invalid days will have a different color and selecting them will show an error message.
     5. Select a time slot from the available options which will appear after choosing a day. Time slots are in 30-minute intervals. The available options will automatically adjust based on the procedure you select. For example, if the procedure takes 1 hour, only time slots that can accommodate a full hour will be shown. The total duration of your appointment depends on the length of the selected procedure.
   * Once all details are set, I can confirm the appointment by pressing a button, which will register it in the database.
   * If any required fields are missing or contain invalid information, an error message will be displayed, and the appointment will not be proceeded.
   * After database registration, I will receive confirmation of the appointment.
2. **See my upcoming appointments** – as a patient, I need to check my upcoming appointments in the hospital app. I can do this by navigating to the Upcoming Appointments window by pressing a button on the patient dashboard.
   * This window contains a calendar that can be navigated (using WinUI calendar components similarly to the MS Teams calendar feature)
   * Appointments are shown as events in the calendar. They will appear as cards on their scheduled date and time (like a MS Teams meeting in the calendar)
   * The schedule needs to keep up with the database updates. Any change in the database should be reflected in the calendar.
   * I should be able to click on an appointment in the calendar. This will open a modal window with details about the appointment (time, doctorName, departmentName, procedureName).
     1. The modal includes a button allowing me to cancel the appointment at least 24 hours before the scheduled time.
     2. If there are less than 24 hours until the meeting, the button will be gray pointing out that it is not clickable.
3. **See medical record results** – as a patient, I need access to my past medical records in the hospital app. I can do this by navigating to the Medical Records History window by pressing a button on the patient dashboard.
   * The window will display a list of Medical Records with minimal details: “Medical record: Time & Date, DepartmentName”.
   * I should be able to click on a Medical Record and see all its details in a modal window (department, doctor, date, procedures performed, results = provided documents by the doctor as a list of names like res1.pdf, res2.jpg). This screen should have the following features:
     1. The list should be refreshed when the database is updated
     2. I can download the documents associated with the medical record by pressing a button (results)
     3. I can press a button and be able to provide feedback (another group’s task)

***Doctor***

1. **See schedule -** as a doctor, I need to see my appointments and work-shifts in the calendar by clicking a button in my dashboard and navigating to the DoctorSchedule window. I need to be able to:
   * Select a day from the calendar. The window should have a calendar/day picker component representing the current month.
   * After selecting a day, I will be able to see the detailed view of a day in the same window structured in 30-minute intervals (for this we will use WinUI components like how a day is displayed in the MS Teams calendar).
   * These DaySchedule components will reflect my work-shift (different-colored background for example: if I work from 8 to 20 that day, the background of the DaySchedule will be green from 8am to 20pm, the rest will be gray) and show the appointments planned for the shift in their correct timeslot. If there is for example an appointment from 10am to 12am, that interval will display a card like events in MS Teams with Appointment – Procedure/PatientName as text
   * Clicking an appointment card opens a modal window which shows the details (patient name, procedure, department etc.). The modal contains the following:
     1. A button which allows the doctor to create a medical record with the information in this appointment (the medical record/medical review object will use the same patientId, doctorId, procedureId and date as the appointment).
     2. A “view profile” button that leads the doctor to the patient medical record history window.
2. **Make a medical record –** as a doctor, I need to create a medical record based on a scheduled appointment.I can do this by selecting an appointment from Doctor Schedule and pressing the “Create Medical Record” button. This will open the Medical Record Creation Form where:
   * The system will fill in data using patient data from the appointment (the medical record object will use the same patientId/Name, doctorId/name, procedureId and date)
   * The appointment data will be filled in the corresponding text fields of the form and can be further edited if needed.
   * The documents should be loaded by pressing a load document button which will open a windows explorer navigator/document picker window. Multiple documents can be added.
   * By pressing a button the doctor can save the medical record in the database.