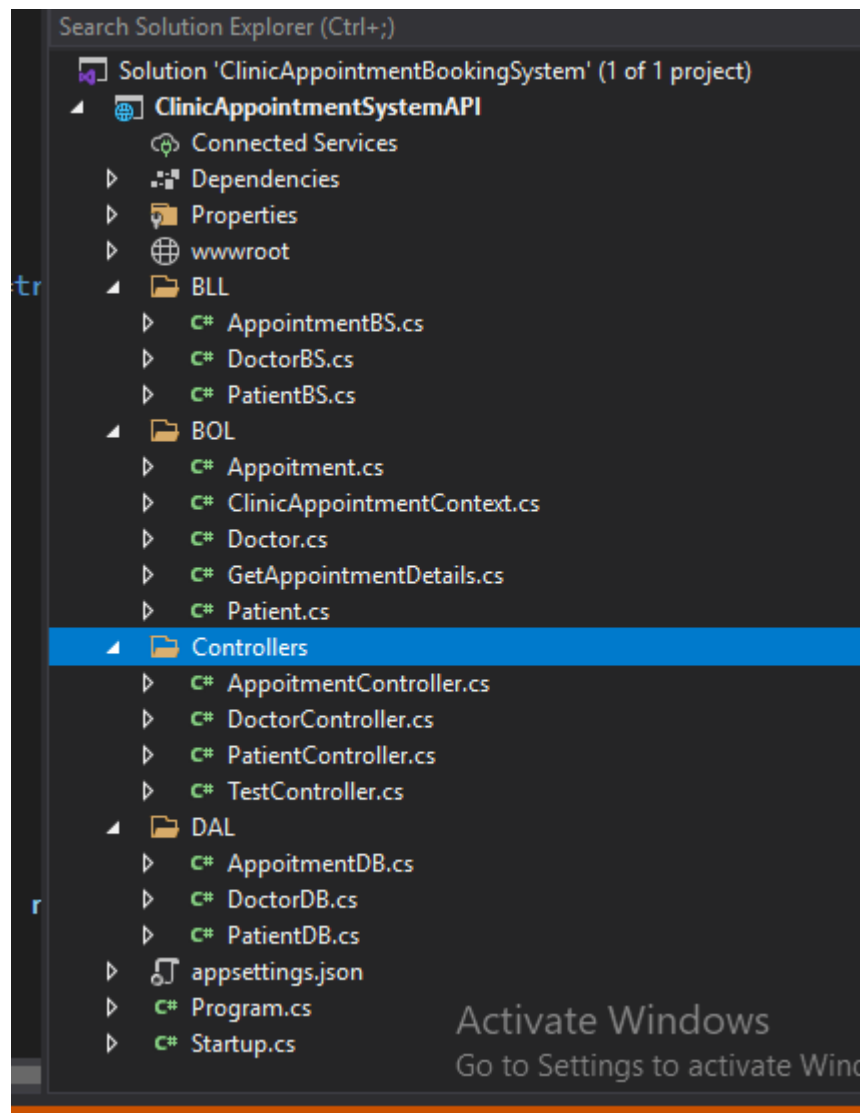


Clinic Appointment Booking System

Table and Columns:

SQLQuery1.sql - LAP...System (affaf (55))* X

- I have added **audit columns** in all the tables aligned with industry standards: **IsActive, IsDeleted, CreatedOn, CreatedBy, UpdatedOn, UpdatedBy**. This is a practice I commonly follow to ensure proper tracking and maintainability of data.
- For **FileNo** I implemented a backend logic that generates a unique number based on a prefix and the year ensuring each file number is sequential and non-duplicate values **GenerateNextFileNo method**.
- I would also like to clarify the **DELETE API requirement**. Initially, I considered implementing a hard delete but as per industry best practices we avoid hard deletion to preserve data history. **Therefore, I implemented the Cancel Appointment functionality using a Status field to maintain the appointment record while ensuring proper traceability.**
- Additionally I had planned to enhance UI consistency by using a **SharedLayoutPage** to reduce repetitive code and improve the frontend design. However due to time limitations I couldn't include these improvements.



I have structured my project using separate layers according to current practices:

- **DAL (Data Access Layer)** – handles all database operations.
- **BOL (Business Object Layer)** – defines the data models or entities.
- **BLL (Business Logic Layer)** – contains the business logic.

List of all doctor.

The screenshot shows a web browser displaying the 'Clinic Appointment System' interface. The page has a blue header with the system name and navigation links for 'Doctors', 'Patients', and 'Appointments'. Below the header, there is a section titled 'All Doctors Details' containing a table with the following data:

ID	Name	Specialization	Qualification	Gender	View Available Time
1	Dr. Abdulla Karim	Cardiology	MBBS, MD	Male	View Available Slots
2	Dr. Sara Khan	Dermatology	MBBS, DDVL	Female	View Available Slots
3	Dr. Sajjad Khan	Orthopedics	MBBS, MS Ortho	Male	View Available Slots

An 'Activate Windows' watermark is visible in the bottom right corner of the browser window.

Doctor Available Time Slots by Date:

The screenshot shows a web browser displaying the 'Available Slots for Dr. Abdulla Karim' page. The page includes a date selection dropdown set to '11-26-2025' and a 'Check Slots' button. Below this, a table lists the available time slots for the selected date and doctor:

Time Slot	Status
10:00 am	Available
10:30 am	Available
11:00 am	Available
11:30 am	Available
12:00 pm	Available
12:30 pm	Available
01:00 pm	Available
01:30 pm	Available
02:00 pm	Available
02:30 pm	Available
03:00 pm	Available
03:30 pm	Available

An 'Activate Windows' watermark is visible in the bottom right corner of the browser window.

All Patients and Search Patient by FileNo :

The screenshot shows a web application titled "Clinic Appointment System" with navigation links for "Doctors", "Patients", and "Appointments". A red "Add Patient" button is in the top right. Below is a "Search Patient by File No" section with a text input containing "PFNo-2025-0001" and a "Search" button. The search results show "Patient Details" for File No: PFNo-2025-0001, Name: Fayyaz Ur Rahman Shaikh, Gender: Male, and Phone: 9421025542, with an "Update Patient" button. Below this is an "All Patients" table with a "Refresh" button. The table lists three patients with their File No, Name, Gender, Phone, and an "Update" button for each.

File No	Name	Gender	Phone	Action
PFNo-2025-0001	Fayyaz Ur Rahman Shaikh	Male	9421025542	<button>Update</button>
PFNo-2025-0002	Sana kulsum	Female	9421025542	<button>Update</button>
PFNo-2025-0003	Derick	Male	9130600500	<button>Update</button>

Add Patient Form:

The screenshot shows the "Add New Patient" form in the "Clinic Appointment System". The form has fields for "Full Name *", "Phone", and "Gender *". The "Gender *" field is a dropdown menu currently showing "Select". Below the form fields is a green success message: "Patient added successfully!". At the bottom are two buttons: "Save Patient" (blue) and "Back" (grey).

Update Patient Form:

Clinic Appointment System

DoctorsPatientsAppointments

Update Patient

File No *

PFNo-2025-0004

Full Name *

Erick James Parker

Phone

8999523725

Gender *

Male

Patient updated successfully!

Update Patient

Back

Activate Windows
Go to Settings to activate

All Appointments:

Clinic Appointment System

DoctorsPatientsAppointments

+ Book Appointment

Enter Appointment ID

SearchReset

Sr.No	Patient	Doctor	Date & Time	Duration (min)	Status	Action
1	Sana kulsum	Dr. Sajjad Khan	27/11/2025, 15:30:00	60	Scheduled	Cancel Appointment
2	Sana kulsum	Dr. Sajjad Khan	27/11/2025, 10:30:00	30	Scheduled	Cancel Appointment
3	Sana kulsum	Dr. Sara Khan	26/11/2025, 16:00:00	60	Scheduled	Cancel Appointment
4	Fayyaz Ur Rahman Shaikh	Dr. Abdulla Karim	26/11/2025, 15:00:00	30	Cancelled	Already Cancelled
5	Derick	Dr. Sajjad Khan	26/11/2025, 10:30:00	30	Scheduled	Cancel Appointment

Appointment by Appointment ID:

Clinic Appointment System

DoctorsPatientsAppointments

+ Book Appointment

2

SearchReset

Sr.No	Patient	Doctor	Date & Time	Duration (min)	Status	Action
1	Sana kulsum	Dr. Sara Khan	26/11/2025, 16:00:00	60	Scheduled	Cancel Appointment

Appointment Cancel Confirmation Validation:

localhost:44366/Appointment.html

Clinic Appointment System

localhost:44366 says
Are you sure you want to cancel this appointment?

OK Cancel

Doctors Patients Appointments

+ Book Appointment

Enter Appointment ID

Search Reset

Sr.No	Patient	Doctor	Date & Time	Duration (min)	Status	Action
1	Sana kulsum	Dr. Sajjad Khan	27/11/2025, 15:30:00	60	Scheduled	Cancel Appointment
2	Sana kulsum	Dr. Sajjad Khan	27/11/2025, 10:30:00	30	Scheduled	Cancel Appointment
3	Sana kulsum	Dr. Sara Khan	26/11/2025, 16:00:00	60	Scheduled	Cancel Appointment
4	Fayyaz Ur Rahman Shaikh	Dr. Abdulla Karim	26/11/2025, 15:00:00	30	Cancelled	Already Cancelled
5	Derick	Dr. Sajjad Khan	26/11/2025, 10:30:00	30	Scheduled	Cancel Appointment

Appointment Cancelled:

Removed Cancelled button if already Cancelled

2	Sana kulsum	Dr. Sajjad Khan	27/11/2025, 10:30:00	30	Scheduled	Cancel Appointment
3	Sana kulsum	Dr. Sara Khan	26/11/2025, 16:00:00	60	Scheduled	Cancel Appointment
4	Fayyaz Ur Rahman Shaikh	Dr. Abdulla Karim	26/11/2025, 15:00:00	30	Cancelled	Already Cancelled
5	Derick	Dr. Sajjad Khan	26/11/2025, 10:30:00	30	Scheduled	Cancel Appointment

Appointment Booked:

For Patient Erick James Parker & Doctor : Dr. Sara Khan on 28/11/2025, 12:30:00

Clinic Appointment SystemDoctorsPatientsAppointments

Book Appointment

Patient *
Select Patient

Doctor *
Select Doctor

Appointment Date & Time *
mm-dd-yyyy --:--

Duration (minutes)
30

Appointment Booked successfully

Book Appointment

Appointment Booking Validation:

For Patient Derick & Doctor is Dr. Sara Khan on 28/11/2025, 12:30:00

“Doctor Already has an Appointment in this time slot”

Book Appointment

Patient *
Derick

Doctor *
Dr. Sara Khan

Appointment Date & Time *
11-28-2025 12:30

Duration (minutes)
30

Doctor Already has an Appointment in this time slot

Book Appointment

Back

Basic Validations when Adding Patient:

Phone no entered: 1233

“Please enter a valid 10-digit phone number.”

Add New Patient

Full Name *

Roman

Phone

1233

Gender *

Female

Please enter a valid 10-digit phone number.

Save Patient

Back

Activate Windows
Go to Settings to activate Windows.