

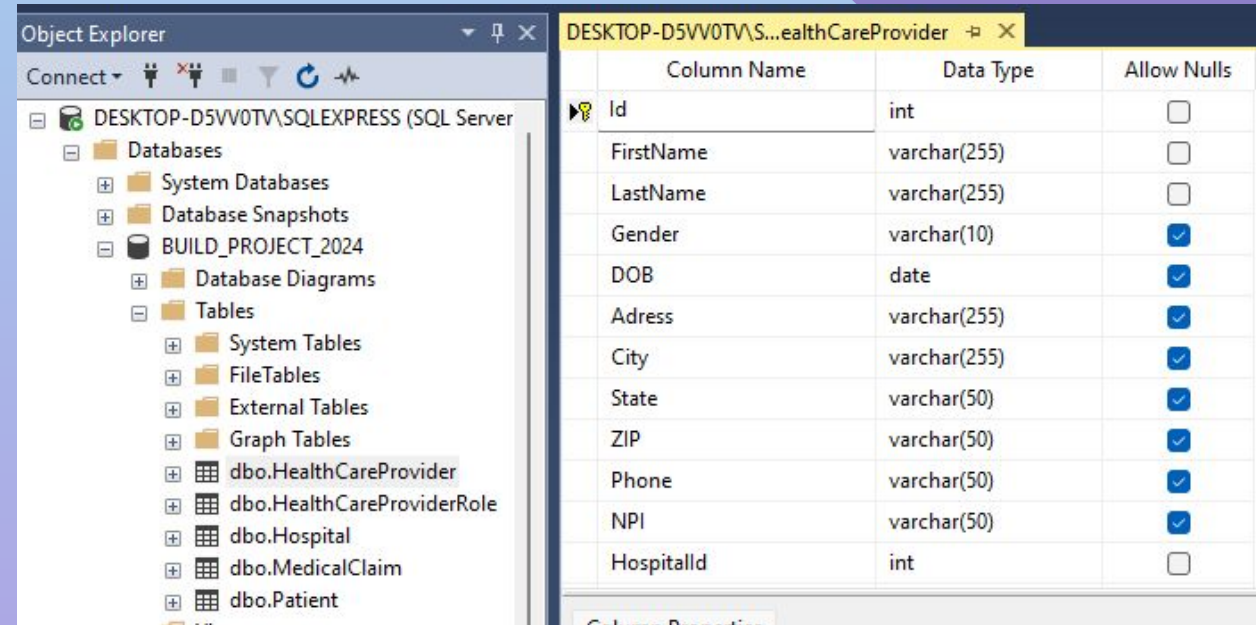
# Build Fellowship Web Application Project

By: Sheikh Arian

Simple hospital-themed database,  
presented through a functioning website.

# Database Creation

- Tables created for:
  - HealthCare Providers
  - Provider Roles
  - Patients
  - Medical Claims
  - Hospital
- Keys created for each table.
  - Primary and Foreign keys.
- Specific Columns allow null values.



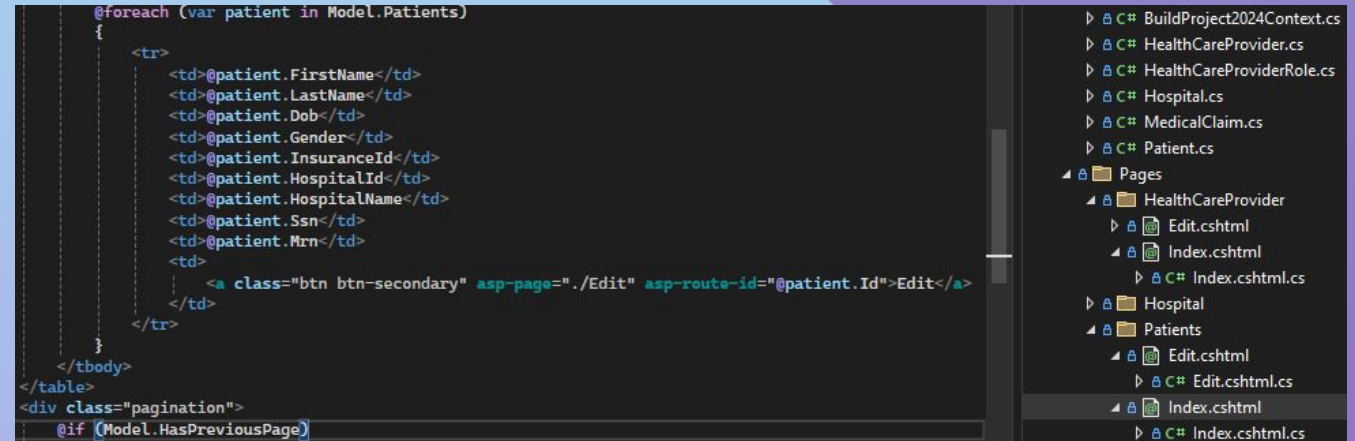
The screenshot shows the SQL Server Object Explorer on the left, displaying the database structure for 'DESKTOP-D5VV0TV\SQLEXPRESS (SQL Server)'. The 'Databases' folder is expanded, showing 'System Databases', 'Database Snapshots', 'BUILD\_PROJECT\_2024', 'Database Diagrams', and 'Tables'. Under 'Tables', several tables are listed, including 'dbo.HealthCareProvider'. On the right, the 'HealthCareProvider' table design is shown, listing columns, data types, and nullability.

Column Name	Data Type	Allow Nulls
Id	int	<input type="checkbox"/>
FirstName	varchar(255)	<input type="checkbox"/>
LastName	varchar(255)	<input type="checkbox"/>
Gender	varchar(10)	<input checked="" type="checkbox"/>
DOB	date	<input checked="" type="checkbox"/>
Adress	varchar(255)	<input checked="" type="checkbox"/>
City	varchar(255)	<input checked="" type="checkbox"/>
State	varchar(50)	<input checked="" type="checkbox"/>
ZIP	varchar(50)	<input checked="" type="checkbox"/>
Phone	varchar(50)	<input checked="" type="checkbox"/>
NPI	varchar(50)	<input checked="" type="checkbox"/>
HospitalId	int	<input type="checkbox"/>

HealthCare Provider table design. Some columns allow null.

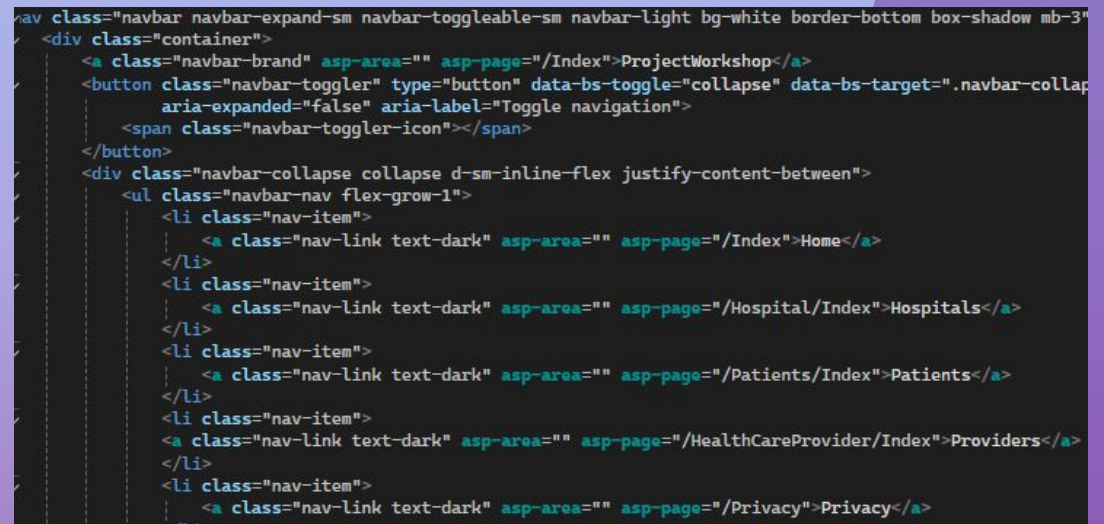
# Website Creation

- Obtains preset data for each table.
  - PageModels with get/set methods.
- Html files for layout design.
  - Basic presentation of data.
  - Links to members based on hospital.
- Layout file for general navigation.
  - Header bar with functional links.
- Buttons to add/edit database.
  - Can edit current data and save.
  - Able to create new patients, healthcare workers and hospitals.
  - DOB data field has functional calendar feature.



The screenshot shows a code editor with ASP.NET MVC code. The main code is a Razor view snippet for a table of patients. It uses a foreach loop to iterate over `Model.Patients`. Each iteration creates a table row with columns for `FirstName`, `LastName`, `Dob`, `Gender`, `InsuranceId`, `HospitalId`, `HospitalName`, `Ssn`, and `Mrn`. An 'Edit' button is placed at the end of each row, with its `asp-route-id` set to `@patient.Id`. Below the table, there is a pagination section with a conditional statement `@if (Model.HasPreviousPage)`. On the right side, a file explorer shows the project structure, including folders for `Pages` (containing `HealthCareProvider`, `Hospital`, and `Patients`) and various `.cshtml` files.

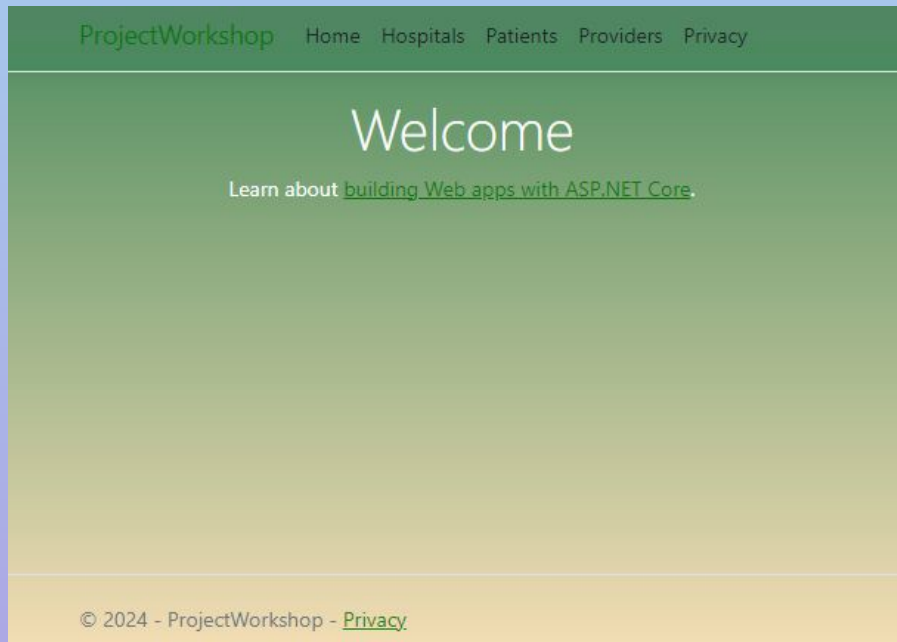
Basic layout file for Patient page, edit button can be seen.



The screenshot shows a code editor with the general layout file. It features a navigation bar with a container class `navbar-expand-sm navbar-togglerable-sm navbar-light`. Inside the container, there is a brand link to `/Index` labeled 'ProjectWorkshop'. A toggle button is present to collapse the navigation. A list of navigation items is shown, each with a link to a different page: `/Index` (Home), `/Hospital/Index` (Hospitals), `/Patients/Index` (Patients), `/HealthCareProvider/Index` (Providers), and `/Privacy` (Privacy).

General Layout file, header bar links can be seen.

# Website Styling



Green/Tan colorway background with specific White text for clarity.



Dark Green buttons and Dark Green link text for clarity. Patients and Providers can show belonging Hospital.

# Lessons? Challenges?

- Using multiple programs towards one goal.
  - SQL Management Studio for database creation.
  - Microsoft Visual Studio for database presentation.
- Utilizing web elements in junction with C#.
  - C# files for get/set methods of information.
  - Html and CSS files for website presentation.
- Having edit/add features for tables.
  - Showing current information of row being edited.
  - Saving new information to be showed on re-open.



# Thank you for this Opportunity!

This was an extremely educational experience.

Thank You  
Pavel Tarasenko

Thank You  
Build Fellowship

Thank You  
Workshop-Mates