

# Prerequisites for ASP.NET Core MVC

## Project Assessment

Before starting the assessment, everyone must complete the items listed below. These are the basic features your project will be built on, so it's important to have them ready in advance. If you don't complete them in advance, then you need to complete them during the assessment. So, try to complete it on the same day to save time on your assessment.

### Prerequisites

#### 1. User and Admin Login

- Implement login of Admin and User
- Implement authentication using **JWT Token** or any simple authentication.
- Implement Authorization with two user roles **Admin** and **User**

#### 2. User Records (No CRUD Required)

- There is **no need to build user registration or user management (CRUD)**.
- Manually insert **10-12 user records** and **1 admin records** in the database.

#### 3. Code First Approach

- Use **Entity Framework Core** with the **Code First** approach.
- Define models, context, and migrations to generate the database schema.

#### 4. Local PostgreSQL Database

- Configure and connect to a **PostgreSQL** database, install it locally if not installed.
- Use proper connection strings and ensure the database is accessible before running the application.
- Tools like **pgAdmin** or **DBeaver** may be used to manage the database visually.

## 5. Authorization Implementation

- Role-based access control must be implemented:
  - **Admin** should access admin-specific views/features.
  - **Users** should be restricted to user-level functionalities.
- Use `[Authorize(Roles = "RoleName")]` where applicable.

## 6. UI/UX Quality

- The project should have a clean, structured UI built with **Razor Views**.
- Use **Bootstrap** or basic CSS to ensure elements are well-aligned and visually clear.

## 7. Responsive Design Not Required

- While clean design is expected, **mobile responsiveness is not mandatory**.
- The UI must function correctly in a **standard desktop browser view**.