Install the .NET Core 3.1 SDK

For Visual Studio perform the following:

Install Visual Studio Community 2022 with the ASP.NET and web development workload

For Visual Studio for Mac, do the following:

1. Install Visual Studio for Mac
2. Select File > New Solution or create a New Project
3. In the sidebar, select .NET Core > App
4. Select the Blazor Server App template. Only the Blazor Server template is available in Visual Studio for Mac at this time
5. For a Blazor WebAssembly experience, follow the instructions on the **.NET Core CLI** tab. After selecting the Blazor Server template, select **Next**
6. Set the Target Framework to .NET Core 3.1 and select Next
7. In the Project Name field, name the app "Web Application1". Select Create
8. Select Run > Run Without Debugging to run the app without the debugger. Run the app with Start Debugging to run the app with the debugger.

(If a prompt appears to trust the development certificate, trust the certificate and continue)

If you wish to use Visual Studio Code, proceed as follows:

1. Install Visual Studio Code
2. Install the latest C# for VS Code Extension
3. For a *Blazor WebAssembly* experience, execute the following command in a command shell:
4. *dotnet new blazorwasm -o WebApplication1*

For a *Blazor Server* experience, execute the following command in a command shell:

1. *dotnet new blazorserver -o WebApplication1*
2. Open the WebApplication1 folder in Visual Studio
3. For a Blazor Server project, the IDE requests that you add assets to build and debug the project. Select Yes.
4. If using a Blazor Server app, run the app using the Visual Studio Code debugger. If using a Blazor WebAssembly app, execute *dotnet run* from the app's project folder.
5. In a browser, navigate to **https://localhost:5001**

Note: Visual Studio 2022 has SQL Server Object Explorer pre-installed that uses SQL Server local database instance. We shall be using the local database that uses a scaled-down version of **SQL Server i.e the Express compact edition (CE)**.