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MVC in Microsoft

Microsoft primarily uses the MVC (Model-View-Controller) pattern in ASP.NET MVC, which is part of the ASP.NET Framework for building web applications. Offering a way to separate concerns in the application (such as the user interface, business logic, and data models

1. ASP.NET MVC (Part of ASP.NET Framework):

ASP.NET MVC is a framework for building dynamic, data-driven web applications using the Model-View-Controller pattern. It allows for clean separation of concerns and makes it easier to manage complex applications.

COMPONENTS OF ASP.NET MVC:

Model: Represents the data and business logic. This could be database entities, data transfer objects or business logic classes. These classes contain the data that is displayed in the views and may interact with databases or external APIs.

View: Represents the user interface (UI). Views are typically rendered as HTML and allow the user to interact with the application. In ASP.NET MVC, views are typically Razor views (.cshtml files), which combine C# code and HTML.

Controller: The controller is responsible for handling user requests, interacting with the Model, and returning the appropriate View. Controllers contain action methods that process incoming HTTP requests, perform logic, and return a result (usually a view).

Steps to Run the Code:

1. Install visual Studio 2022 or latest
2. . Create a New ASP.NET Core MVC Project
3. Navigate to the Project Folder (cd StudentApp)
4. Create the Student Model
5. Create the StudentService Class
6. Create the StudentController
7. Create Views for Displaying Data

8. Configure the Dependency Injection in Program.cs
9. Run the Application(dotnet run)