Asp.Net Core

Introduction

- ASP.NET Core MVC is Microsoft's Web Application development framework that is in great demand today. It is based on Model-View-Controller (MVC) architecture, ideas and techniques from Agile Development, and the best parts of .NET platform.

Required IDE and Database

- Visual Studio 2022
- Sql server Management Studio

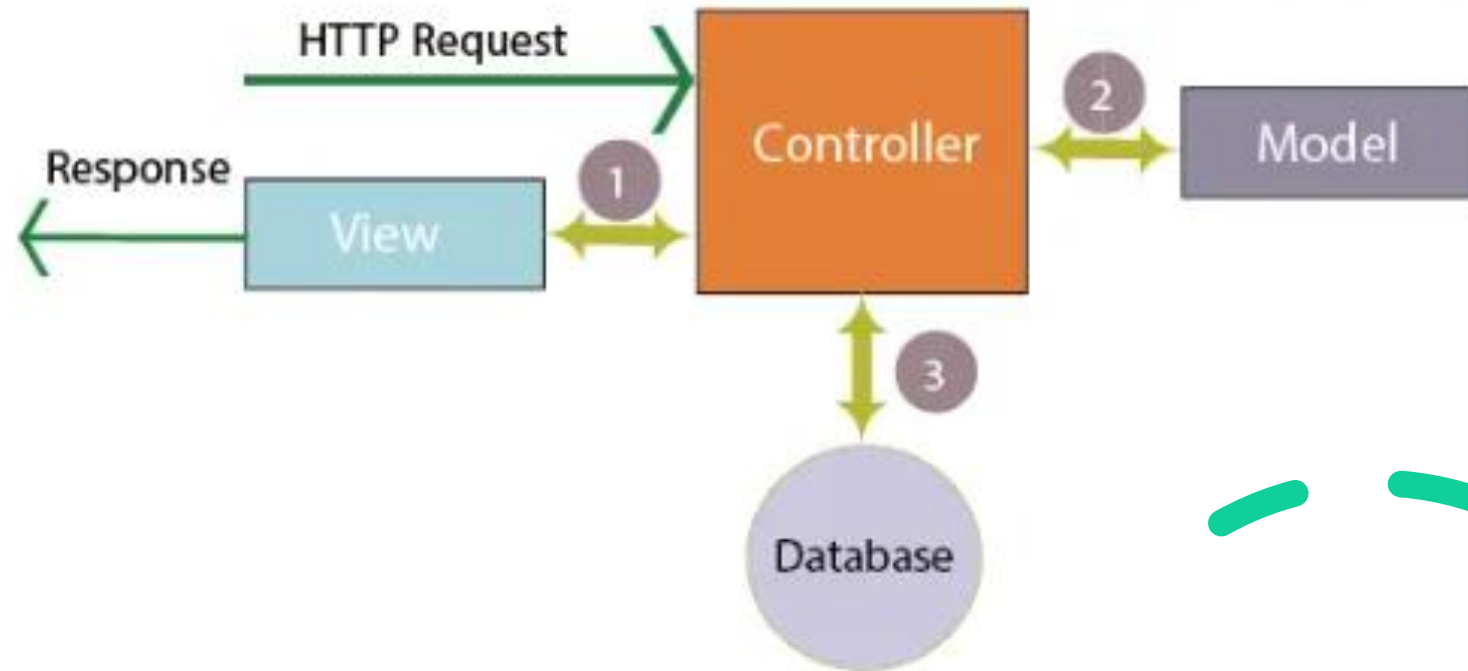What is MVC ?

MVC

MVC (Model, View, Controller)

- **Model:** It contains the data for the application to work with. This data is provided to the Model from the database or any other repository.

- **View:** It forms the User Interface (UI) and is rendered on the browser. Views contain HTML layouts which the user actually sees on the browser.

- **Controller:** Controller is the brain of the MVC application. It processes the incoming request to the application, performs operations like data filling, data update, data delete, data inserts etc, and finally renders an appropriate View to the browser based on the request.

MVC Architecture

LINQ

- Language-Integrated Query (LINQ) is a powerful set of technologies based on the integration of query capabilities directly into the C# language

LINQ Standard Query Operators

- Where
- OrderBy
- First, FirsOrDefault
- Select
- Sum
- Distinct
- Any
- GroupBy
- Skip
- Take
- Max

Lambda Expression

- Lambda Expression is a shorter way of representing anonymous method.

- Lambda Expression syntax: parameters => body expression

For Example: x=>x.userid