

Session 8

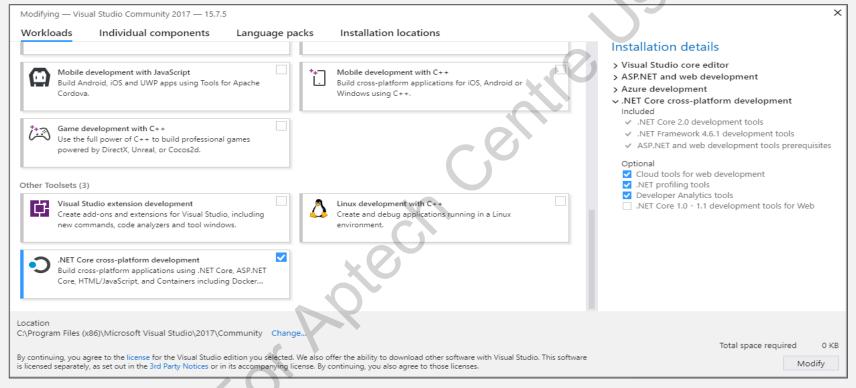
Client-side
Development
Using ASP.NET
Core MVC

Session Overview

- Define static files in ASP.NET
- Define ADO.NET Core MVC
- Describe client-side validation
- Describe server-side validation
- Explain how to implement a Core MVC application

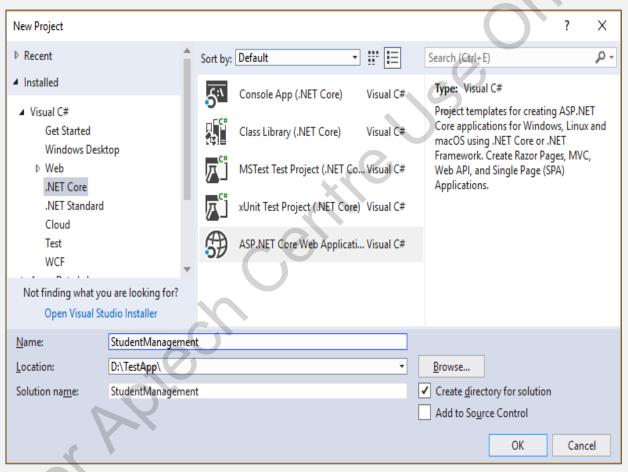
Overview of ASP.NET Core (1-2)

- ASP.NET Core is a part of Visual Studio optional installation
- It is not installed by default



.NET Core Installation

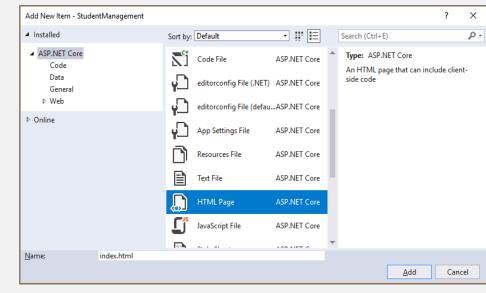
Overview of ASP.NET Core (2-2)



.NET Core Project

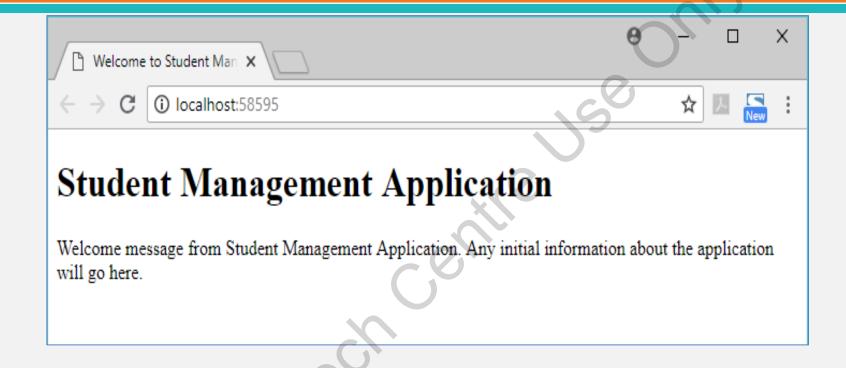
Static Files in ASP.NET (1-2)

- ASP.NET Core applications can serve static files, such as HTML, JavaScript, images, and Cascading Style Sheet (CSS) files.
- Web root (wwwroot) folder stores these static files.



Adding HTML File to the Application

Static Files in ASP.NET (2-2)

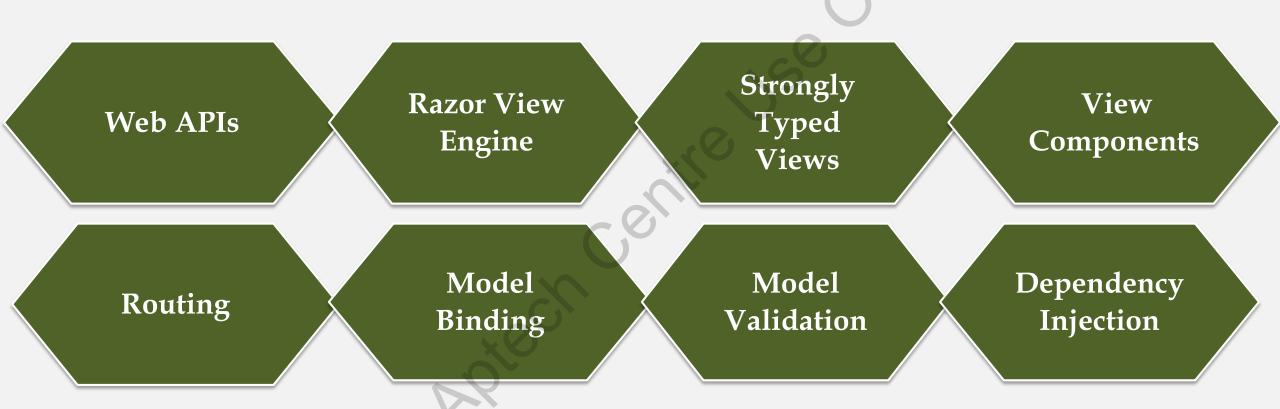


Index.Html File Loaded

Introduction to ASP.NET Core MVC (1-2)

- Lightweight
- Open source
- Highly testable presentation framework
- Provides a patterns-based way to build dynamic Websites
- Enables clean separation of concerns and full control over markup
- Supports Test Driven Development (TDD)-friendly development
- Uses latest Web standards

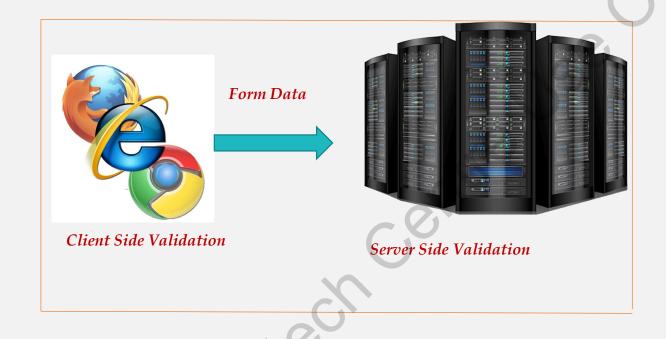
Introduction to ASP.NET Core MVC (2-2)



Differences between ASP.NET Core MVC and ASP.NET MVC 5

ASP.NET Core MVC	ASP.NET MVC 5
A new approach to server-side and client-side dependency management of packages.	Reference to assemblies, library, framework, or any third-party packages is added using NuGet package manager.
Apps do not use Internet Information Services (IIS) for hosting.	Apps use IIS for hosting.
Single aligned Web stack for ASP.NET Core MVC and Web APIs.	Provides an option to choose between MVC or Web API, or both, because Web stack for MVC 5 and Web API are different.
Inbuilt Dependency Injection (DI) support for ASP.NET Core.	Separate DI containers such as Unity, AutoFac, StructureMap, and so on.

Client-side Validation (1-3)

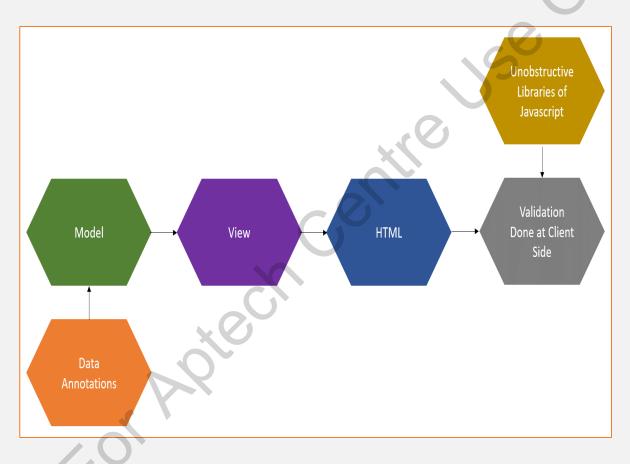


Client-side Validation (2-3)

CreateStuder	nt
Student Name:	Student Name is required.
Student Email:	Student Email is required.
Date of Join:	01-01-0001 00:00
Submit	

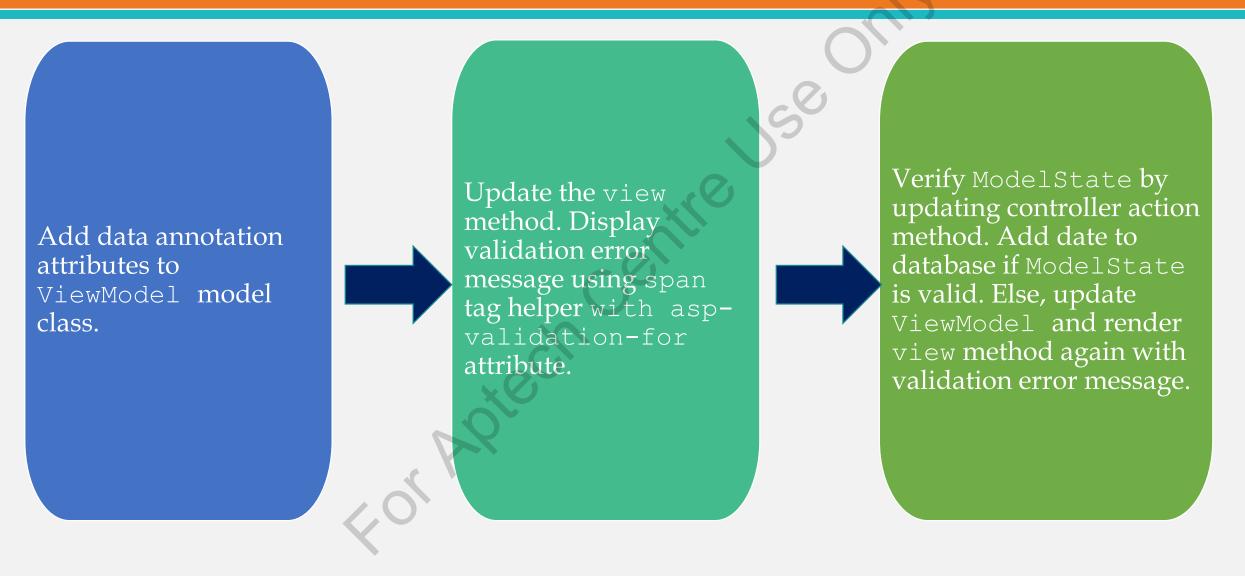
Client-side Validation Using JavaScript

Client-side Validation (3-3)



Client-side Validation

Server-side Validation (1-4)



Server-side Validation (2-4)

Required:

An indication that the property is required.

Range:

The minimum and maximum constraints are defined.

MinLength:

The minimum length that a property must have for the validation to succeed is defined.

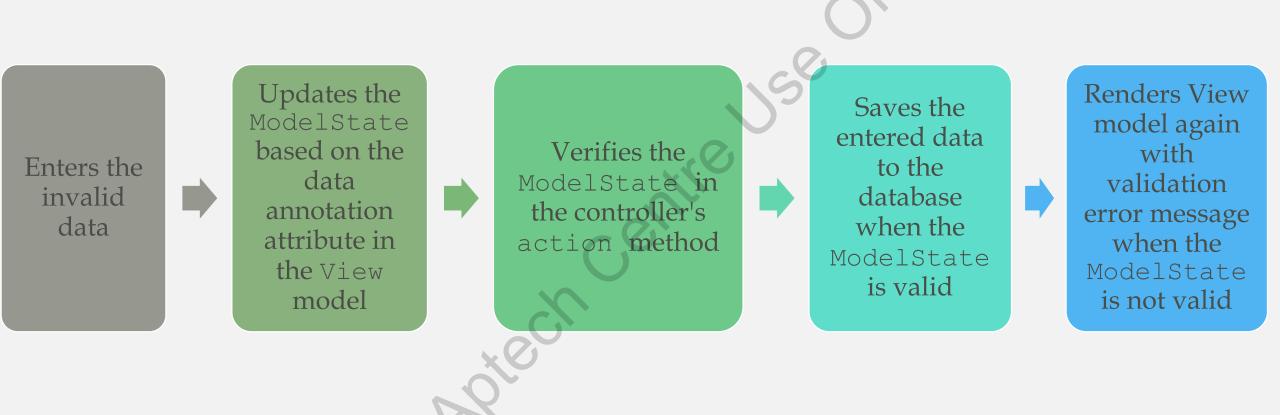
MaxLength:

The maximum length of the property is defined. The validation fails if the length of the property value exceeds.

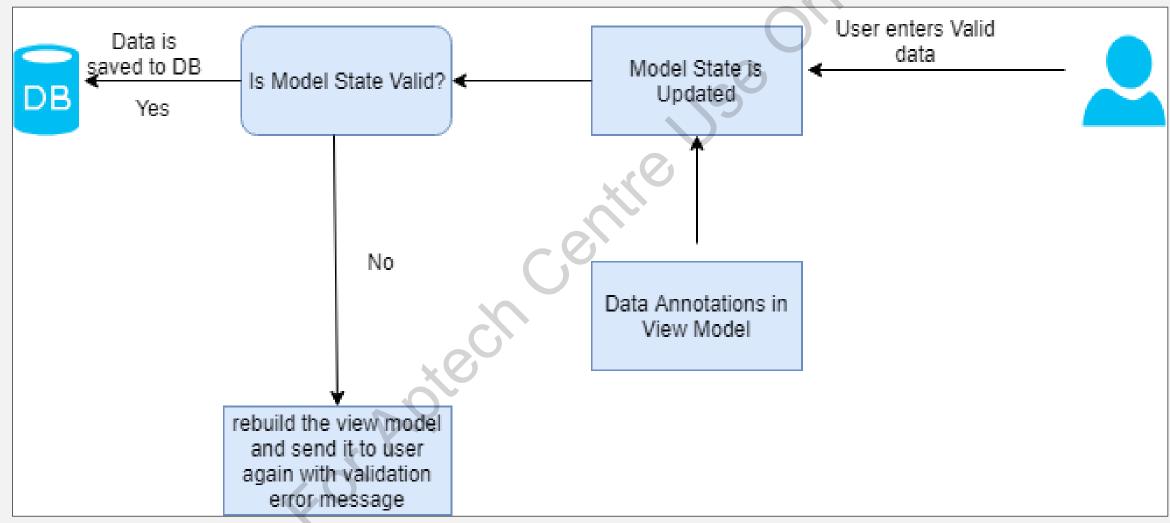
RegularExpression

: A regular expression for data validation is used by using this attribute.

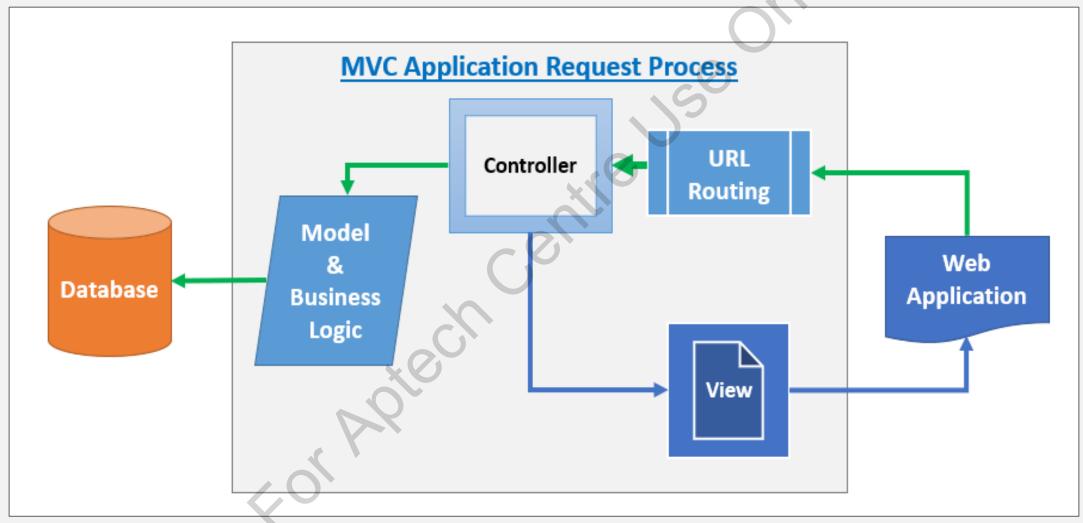
Server-side Validation (3-4)



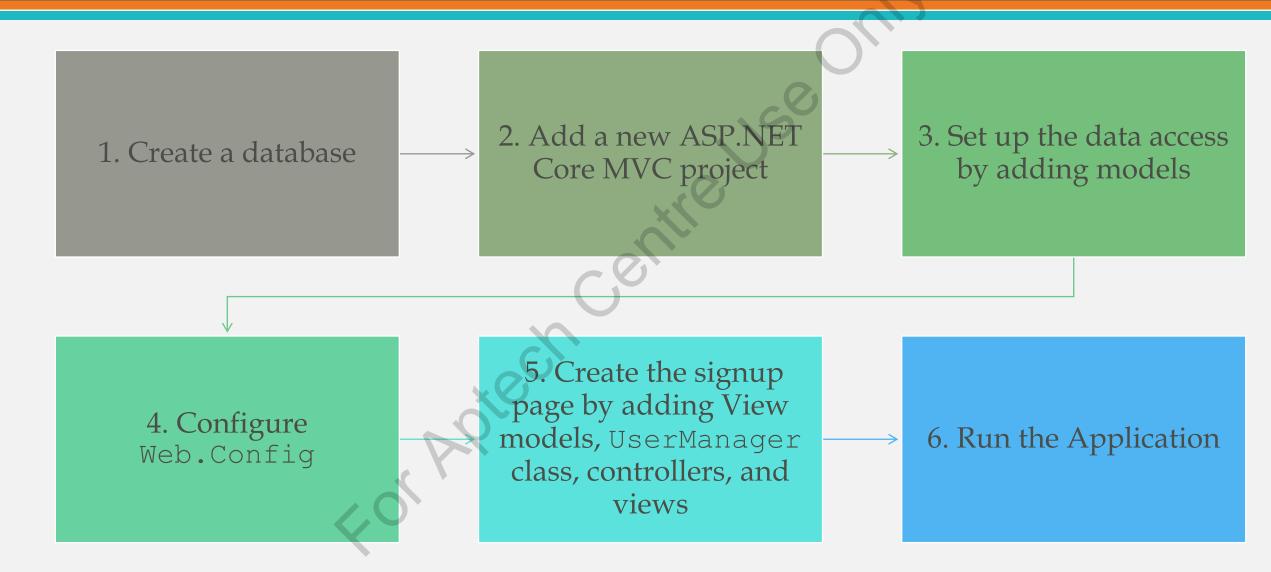
Server-side Validation (4-4)



Implementing a Core MVC Application (1-2)



Implementing a Core MVC Application (2-2)



Summary

- ASP.NET Core uses ASP.NET Core MVC framework. It is lightweight, open source, and a highly testable presentation framework.
- In server-side validation, the server validates the input submitted by the user. Post validation, a dynamically generated new Web page sends the feedback back to the client.
- In client-side validation, all user inputs are validated in the user's browser itself.
- Data annotation attributes define the validation rules for properties of model/ViewModel.
- Commonly used data annotation attributes are Required, Range, MinLength, MaxLength, and RegularExpression.