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| **.NET CORE & ASP.NET MVC CORE COURSE CONTENTS** |

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| **.NET CORE & ASP.NET MVC CORE** |
| **Module1: - Introduction to .Net Core & Asp.Net MVC Core**  What is .NET Core? .NET Core Features Advantages of .NET Core  What is MVC Pattern Understanding ASP.NET Core MVC ASP.NET MVC Core vs. ASP.NET MVC vs. ASP.NET Web Forms?  New Features of Asp.Net MVC Core 5.0  **Module 2:- ASP.NET MVC Core First Application** ASP.NET MVC Core Environment Setup Project Layout Understanding Life Cycle of ASP.Net MVC Core Request  **Module 3:- Model, View & Controller**  Introduction to Model  Introduction to Controller & Actions  Introduction to Views  Creating Views  Adding HTML Controls in Views  Linkage between Actions & Views  Creating Views  Adding HTML Controls to Views  Linking Actions with Views  Creating Models  Linking Model, Controller, Actions & Views  **Module 3:- Controllers, Action Methods & Views**  Controllers Overview Action Methods and IActionResult object Passing data from Controller to View  Using ViewBag, ViewData & TempData  Understanding Action Selectors Action Filters  **Module 4:- Razor Views**  Introducing Razor View Advantages of Razor View Razor Syntax Types of Views Partial Views Layout Pages Special Views View Categorization based on Model  **Module 5:- Helpers** Html Helpers Built-In Html Helpers URL helpers Tag Helpers  Importance of Tag Helper Custom Tag Helpers  **Module 6:- Model Binding** Html Form behavior Model Binder Overview DefaultModelBinder Binding to Complex Classes IFormCollection Model Binding IFormFile Model Binder  **Module 7:- Validations & Data Annotations** Data Annotations and Validations Overview Validations with Data Annotation Server Side and Client Side Validation Custom Server side validation Model level validation using IValidatableObject Custom unobstrive Client side Validation Remote Validation  **Module 8:- State management Techniques** Cookies Sessions  **Module9:- MVC and Entity Framework Core** Introduction to Entity Framework Core  Advantage of Entity Framework Core  Architecture of Entity Framework Core  Difference between Entity Framework & Entity Framework Core  Context Class in EF Core  SQL database using EF. Connecting to Databases using EF Core.  Basic CRUD Operations using EF Core  Approaches of Entity Framework Core  Database First  Code First  Calling Procedures using EF Core  **Module 10:- Routing** Url Routing Overview Custom Routes Attribute Routing Routing Constraints  **Module 11:- Module Development** Understanding Areas Adding Areas Defining Area Routes Linking between Areas |

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