

Centre For Electronic Governance , Jaipur
ASP.NET MVC 5 Using Razor
Duration: 2 Months

- ASP.NET Web Forms VS ASP.NET MVC
- Introduction of ASP.NET MVC
- MVC Design Pattern & Architecture
- Routing Intro
- Html Helpers
- Implementation with View Model(MVVM)
- ASP.NET MVC project templates
- Understanding the structure of an ASP.NET MVC project
- Naming conventions
- Working with controllers
- Defining a data model
- Work with Custom Html Helpers
- Validation- Client Side and Server Side

- Creating strongly-typed views
- Handling form post-backs

- Razor Basics
- Implementation of Razor view
- Razor syntax

- Accessing Model Data in Razor views ViewBag, ViewData, TempData & Session
- Working with Views
- Partial Views and Reusable Components
- Data Listing, Custom Paging, Sorting and Searching
- Repository Pattern in MVC
- Dependency Injection
- MVC Pipeline
- ASP.NET MVC Action Filters and Attributes
- Security - Authentication & Authorization
- Error Handling
- LINQ Introduction
- LINQ Fundamentals
- LINQ Query Syntax
- Implementation of Var and Anonymous Type
- Understand Concept of LINQ deferred
- Selectors and Filters
- Manipulating HTML elements and HTML attributes
- jQuery Event handling : Bind, Click, Delegate, Live and On events
- Making GET and POST request with jQuery
- execution and immediate execution
- IEnumerable, IQueryable, IList and ICollection

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- Querying database using LINQ Pad
- SQL Joins using LINQ
- Brief About Ado.Net Entity Framework
- Theory of Entity Framework ORM
- Entity Framework Development Model : Code First, Database First and Model First
- Data Context Initializers
- Code First Mapping using Data Annotation
- Code First Mapping using Fluent API
- Entity Framework Code First Migrations
- CRUD Operations using Entity Framework
- Inheritance and Entity Splitting
- Using T-SQL Function and Stored Procedure
- Database First development
- WCF Implementation
- Introduction of JQuery and Java Script Framework
- Fundamentals of jQuery

- DOM and DOM Tree
- Document.Ready() and PageLoad() methods
- Creating a simple jQuery-enabled page
- Downloading and installing jQuery
- Understanding CDN like Google and jQuery
- JQuery with Ajax
- JQuery JSON
- Introduction to REST

- History of ASP.NET Web API (REST)
- Fundamentals of ASP.NET Web API
- CRUD Operations Using Web API
 - Securing Web API
- ☐Hosting Web API
- Project