enosis learning
Creating Software Professionals

Microsoft® .NET MVC

ASP.NET MVC COURSE CONTENT

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INTRODUCTION
- What is MVC
- ASP.NET MVC Introduction
- Difference between Aps.net & Asp.net MVC
- Why .net intoduced Asp.net MVC
- History of MVC
- Understanding MVC
- Understanding Models in MVC
- Understanding View in MVC
- Understanding Controller in MVC
- Understanding Architecture of MVC
- Flow of MVC Application
- Advantages of MVC

CREATING MVC APPLICATION
- Creating MVC Application
- Understanding Linking of Model-View-Controller
- Creating View Using html Controls
- Database Application Using SQL Server
- CRUD Application using MVC & SQL Server

EXPLORING CONTROLLERS
- Viewdata, View bag & Tempdata
- Difference between Viewdata, Viewbag Tempdata
- Sending data from Controller to View & View to controller
- Controller Action Methods
- Controller Action Method Parameter
- Controller Action Filters
- Controller Action Custom Filters

USING HTML HELPER CONTROLS IN MVC
- Using html helper controls
  - TextBox
  - CheckBox
  - RadioButton
  - DropDownList
  - FileUpload
  - FileDownload
  - Grids
- Understanding Strongly Typed Helpers
- Html Helper Model Binding
- Html Helper Display and Editors Methods
- Html Helper Viewdata Binding

UNDERSTANDING MODEL BINDERS
- Default Model Binder
- Custom Model Binder

VALIDATION AND ANNOTATION
- Model Validation
- Unobtrusive Client Validations
- Metadata Validation
- Client Side Validation
- Server Side Validation

ENTITY FRAMEWORK AND LINQ
- Introduction to LINQ
- LINQ Syntax
- LINQ to SQL
- Introduction to Entity Framework
- Creating Application using EF in MVC
- Working with Database first Approach in MVC
- Auto generation of Model, Controller & View in MVC Using EF
- Working with Code first in MVC
- Understanding Model first approach
- MVC and EF Crud Operations
- MVC and EF Crud Operation Using BO Class
- MVC and EF Crud Operations Using Generic BO Class

AREAS
- Understanding Areas in MVC
- Creating Areas in MVC
- Linking Areas in MVC

LAYOUTS IN MVC

PARTIAL VIEW IN MVC

BUNDLING AND MINIFICATION

URL ROUTING

JQUERY AND AJAX
- Introduction to Jquery
- Using Jquery from CDN
- Integration of JQuery with MVC
- Applying Jquery on the Page
- Working with Jquery Selectors
- Applying Jquery Validations
- Jquery UI Controls
- Ajax Helper Methods Controller

SECURITY
- Authentication and Authorization
- Windows Authentication
- Forms Authentication
- Role Based Authentication
- Anti Forgery Token

ANGULAR JS
- Introduction to Angular JS
- Architecture of Angular JS
- Model View Controller in Angular JS
- Calling Angular JS from MVC
- Working with build in directives
  - ng-app, ng-init
  - ng-model, ng-repeat
  - ng-class
- Using ng-click, ng-disabled,ng-show,ng-hide