

MVC

- Installing ASP.NET MVC
- MVC Application Architecture
- Creating the first asp.net mvc application
- Controllers in an mvc application
- Views in an mvc application
- Difference between ViewData and ViewBag in mvc
- Roles of Models in an mvc application
- Accessing data in MVC using entity framework
- Actionlink html helper
- Working with multiple tables in mvc
- Using business objects as model in MVC (Using Class Library)
- Insert data in View
- FormCollection in MVC
- Mapping asp.net request data to controller action simple parameter types
- Updatemodel function in MVC
- Difference between updatemodel and tryupdatemodel
- How to Edit a model in mvc
- Updating data in MVC
- Entity Framework
- Linq in detail
- Extension Method
- JQuery
- Bootstrap
- Deleting database records using post request in mvc
- Insert update delete in mvc using entity framework
- Customizing the auto-generated index view
- Customizing the autogenerated create view
- Customizing the autogenerated edit view
- View engines in asp.net mvc
- How does a controller find a view
- Html helpers in MVC
- Generating a dropdownlist control in mvc using HTML helpers
- How to set an item selected when dropdownlist is loaded



- Difference between Html.TextBox and Html.TextBoxFor
- Generating a radiobuttonlist control in mvc using HTML helpers
- CheckBoxList in asp.net mvc
- ListBox in asp.net mvc
- Using displayname, displayformat, scaffoldcolumn attributes in mvc
- Using datatype & displaycolumn attributes
- Opening a page in new browser window
- Hiddeninput and readonly attributes in mvc
- Display and edit templated helpers
- Customize display and edit templates
- Accessing model metadata from custom templated helpers
- Displaying images in asp.net mvc
- Custom html helpers in mvc
- Html encoding in asp.net mvc
- Detect errors in views at compile time
- Advantages of using strongly typed views
- Partial views
- Difference between html.partial and html.renderpartial
- What is cross site scripting attack
- How to prevent cross site scripting attack
- Razor views in mvc
- Razor views in mvc continued
- Layout view in mvc
- ViewStart in asp.net mvc
- Named sections in layout files in mvc
- Implementing search functionality in asp.net mvc
- Implement paging in asp.net mvc
- Implement sorting in asp.net mvc
- Deleting multiple rows
- Check uncheck all checkboxes with another single checkbox using jquery
- Action selectors in mvc
- What is the use of NonAction attribute in mvc
- Action filters in mvc
- Authorize and AllowAnonymous action filters
- ChildActionOnly attribute in mvc



- HandleError attribute
- OutputCache attribute
- CacheProfiles
- RequireHttps attribute
- ValidateInput attribute
- Custom action filters
- Different types of ActionResult in asp.net mvc
- Areas
- StringLength attribute
- Range attribute
- Creating custom validation attribute
- RegularExpression attribute
- Compare attribute
- Enable client side validation in asp.net mvc
- ValidationSummary
- Create a custom remote attribute and override IsValid() method
- Ajax with asp.net mvc
- What is Ajax and why should we use it
- OnBegin, OnComplete, OnSuccess and OnFailure properties of AjaxOptions class
- Implement autocomplete textbox functionality in mvc
- What is CDN - Content Delivery Network
- Sample project with all combinations

WebAPI

- What is ASP.NET Web API and difference between WCF
- Creating a Web API Project
- HTTP GET PUT POST DELETE
- Using Postman for Web API
- ASP.NET Web API and SQL Server
- ASP.NET Web API Content Negotiation
- ASP.NET Web API MediaTypeFormatter
- Implementing post method in ASP.NET Web API
- Implementing Delete method in ASP.NET Web API
- Implementing Put method in ASP.NET Web API
- Custom method names in ASP.NET Web API



- ASP.NET Web API query string parameters
- FromBody and FromUri in Web API
- Calling Web API from Client application
- Call ASP.NET Web API from jQuery
- Consuming Web API service in using jQuery ajax
- Cross-origin resource sharing ASP.NET Web API
- Enable SSL in Visual Studio Development Server
- ASP.NET Web API enable HTTPS
- Configure Dependency Injection with Web API
- Implementing basic authentication in ASP.NET Web API
- Call web api service with basic authentication using jquery ajax
- ASP.NET Web API token authentication
- ASP.NET Web API user registration
- Using ASP.NET identity with Web API
- Using fiddler to test ASP.NET Web API token based authentication

ASP .Net

1. An Introduction to C#
 - What is .NET?
 - What is the CLR?
 - The FCL
 - Primitive Types
 - Namespaces
 - Statements and Expressions
 - Operators
2. Classes and Objects
 - Constructors
 - Reference Types
 - Object Oriented Programming
 - Inheritance
 - Access Modifiers
 - Abstract Classes
 - Virtual Members
 - Static Classes
 - Sealed Classes
 - Partial Classes



3. C# - Types
 - Reference Types
 - Value Types
 - The struct
 - Testing Reference Types
 - Testing Value Types
 - Passing Parameters
 - Strings
 - Boxing
 - The enum
 - Defining Types
 - Interfaces
 - Arrays
 - Assemblies
4. C# - Events, Properties, and Methods
 - Methods
 - Method Overloading
 - Fields
 - Properties
 - Events
 - Events - Delegates
 - Events - Subscribing
 - Events - Publishing
 - IndexersOperator Overloading
 - Conversion Operators
5. C# - Flow Control and Exceptions
 - Branching
 - Switching
 - Looping
 - Using foreach
 - Jumping
 - Returning and Yielding
 - Throwing Exceptions
 - Built-in Exceptions
 - Handling Exceptions
 - Chaining Catch Blocks
 - Finally
 - Re-throwing Exceptions
 - Custom Exceptions
6. C# and the CLR
 - Garbage Collection



- Threads
 - Async
 - Parallel
 - Reflection
 - Attributes
 - Custom Attributes
 - COM Interop
 - PInvoke
7. C# and Generics
- Why Generics?
 - Building Collections Without Generics
 - Generic Collections
 - Generic Parameters
 - Generic Constraints
 - Generic Methods
 - The default Keyword
 - Generic Interfaces
 - Generic Delegates
 - Variance
8. C# and LINQ
- Extension Methods
 - Extensions and Lambdas
 - Lambdas and Funcs
 - Funcs and Expressions
9. C# and the DLR
- Why Dynamic?
 - Using Dynamic Types
 - Excel Automation
 - The DLR
 - ExpandoObject
 - DynamicObject
 - Calling Ruby
10. Object Oriented Programming with C#
- Primitive Procedural Preoccupations
 - The Big Encapsulation
 - Little Abstractions
 - The Inheritance Check
 - A Clean Interface
 - Directional Dependencies
11. Functional Programming with C#
- Prime Abstraction
 - A Higher Calling
 - Lazy Code
 - Timing and Retries



- Partial Application and Currying
 - Asynch and Parallel
 - Multithreading
12. Exploring the .NET Framework
- File I/O
 - Resource management with try/finally/using
 - Using XML serialization
 - Introducing assembly resolution
 - Deploying dependent assembly probing
 - Using a config file to control probing
 - ArrayList
 - Hashtable
 - SortedList
 - Stack and Queue
13. Windows Form
- Introduction to Windows Form
 - Form Controls
 - User Define Controls
14. ADO.NET
- Connected Architecture
 - Disconnected Architecture
 - Working with Transaction

