



Chapter - I: C# Fundamentals

- Enumerations and Arrays
- Constructors, Destructors, Partial Classes and Static Classes
- Introduction to Inheritance, Visibility Modifiers and Simple Inheritance
- Sealed Classes and Interfaces
- Delegates, Generics
- Exceptions, Debugging, Break points, Immediate window, Collections
- Multi Threading, , LINQ
- Assemblies

Chapter - II: Sql Server 2014

- Sql Basics, History, Querys
- Built in Functions
- Joins
- Views, Indexes
- Stored procedures, triggers

Chapter - III: Webservices

- Web Services Introduction, Creating Web services.
- Consuming Web services

Chapter - IV: JavaScript

- Introduction to java script
- Basic functions Implementation
- Java script events Handeleing
- Java script Validations
- Attaching an external java script file

Chapter - V: JQuery

- What is J query ?Insatllation and syntax.
- Selecters and events



- J query animation effects
- J query Ajax calls
- J query Content delivery networks(CDN)
- J query Validations

Chapter - VI: LINQ

- What is LINQ & Writing LINQ Queries
- Extension Methods ,Aggregate Functions and Operators
- Union, Intersect and Except operators in LINQ
- Insert Update Delete using LINQ to SQL
- Using stored procedures with LINQ to SQL

Chapter - VI: Entity Framework

- What is Entity Framework, CodeFirst and DB First
- Using stored procedures ,handle model changes and seed database
- Relationships in Entity Framework

Chapter - VII :MVC

- Introduction to MVC and MVC Architecture
- Essential Language Features and Working with Controllers
- Model Validation and Working with Views
- Working with URLs and Routing
- Ajax and Client Scripting
- Security, Authentication, Authorization, Cross-site scripting (XSS)

Chapter - VIII :Web API

- What is Web API and why to use it ?
- Web API Routing and Filtering Data
- Binding, Validation and Routing

Chapter - IX WCF



- Introduction to WCF ,Addresses and Bindings
- Service Contracts, Data Contracts,Consuming WCF Service
- Instance Management
- Hosting a wcf service
- REST Service
- Fault contracts and Handling Errors

Chapter - X Source controls and Deployment

