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Advanced .Net - Course Contents – Effective April 2016

Pre-requisite : Should have gone through Essential .Net course

- WCF
 - ABCs of WCF
 - Creating a WCF Service (ServiceContract, OperationsContract, DataContract, ServiceBehaviour and EndpointBehavior)
 - Bindings in WCF
 - Hosting a Service (Hosting options and selecting proper host)
 - Consuming a WCF Service by creating a proxy
 - Exposing a service with multiple endpoints
 - Consuming a WCF Service using ChannelFactory
 - Operation Types in WCF (Oneway, twoway)
 - Calling WCF methods from consumer asynchronously
 - Instances of the WCF Service
 - Sessions in WCF
 - Concurrency management in WCF Service
 - Creating RESTful WCF Services
 - Consuming a RESTful service
 - Security overview of WCF
 - Authentication / Authorization
 - Transport and Message level security
 - Implementing security for Intranet and Internet environment
 - Transactions in WCF
 - MessageQueue services in WCF
 - Message Contracts in WCF – Streaming data example
 - Parameter Inspectors and Message Inspectors
- ASP .Net MVC Package
 - LINQ
 - Understanding Anonymous Methods
 - Using Method syntax for LINQ operation
 - LINQ to Objects
 - Linq to DataTable
 - Linq to XML
 - Entity Framework Model

- Understanding Entity Framework Model
- Creating Entity Framework Data Model
- Working with Entity Model using LINQ (Object Services)
 - Projection of the data (Selection)
 - Filtering, Ordering and Grouping Data
 - Working with related Data
 - Updating data
- Lazy loading, Eager Loading and Explicit Loading of data and using correct option
- Handling Concurrency issues in Entity Framework
- Custom Mapping of Conceptual Model with Physical Model
- Code First Example
- MVC
 - Understanding MVC model
 - ASP .Net implementation of MVC model
 - Writing an ASP .Net MVC application
 - Creating Controllers from Model
 - Creating Views from Controller Actions
 - Editing Views.
 - Understanding working with Data provided to View
 - Doing Validations in an MVC application
 - Doing Custom Server side and Client side validations
 - Creating Partial Views
 - Creating Forms
 - Standard forms doing full postback
 - Ajax forms with partial refresh of the page
 - Understanding use of ViewData, TempData and ViewBag
 - Writing Custom Helpers
 - Using patterns like repository and dependency injection in Controller
 - Asynchronous Controllers
 - Web API Example