

.NET Training

Advance .Net Syllabus

Advance .Net

Windows application programming

- ✓ Introduction
- ✓ Controls
- ✓ Menus and Context Menus
- ✓ Dialog
- ✓ Form Inheritance
- ✓ Other Misc. Topics

Database Connectivity Using ADO.NET

- ✓ Overview of Database & Database Server
- ✓ Introduction of SQL Server 2008
- ✓ DML & DDL Query
- ✓ Join , Trigger , Procedure & function
- ✓ ADO.NET API
- ✓ Connected Layer
- ✓ Connection, Command & Data Reader
- ✓ Disconnected Layer
- ✓ Adaptor, Data Set, Table, Row & Column
- ✓ ODBC, OLEDB, Oracle Client
- ✓ Connectivity with Oracle ,Access, Excel & MySql
- ✓ Connection Pooling

Web Application Programming Using Asp.NET

- ✓ Web application architecture
- ✓ Static Web Page
- ✓ Application Life Cycle
- ✓ Dynamic Page
- ✓ Page Life Cycle & Event Method
- ✓ Html & Server Control

- ✓ Server Control Event Life Cycle
- ✓ State Management
- ✓ Url Rewriting, Hidden Form Field, View State, Session, Cookies & Application.
- ✓ Global class & Event Method
- ✓ Uploading & Downloading
- ✓ Page Directives
- ✓ Data Source
- ✓ SqlDataSource, XmlDataSource, SiteMapDataSource & ObjectDataSource
- ✓ Data Control
- ✓ DataList, DetailsView, FormView, GridView, ListView & Repeater
- ✓ Validation Control
- ✓ CompareValidator, CustomValidator, RangeValidator, RegularExpressionValidator & ValidationSummary
- ✓ Navigation
- ✓ Menu, SiteMapPath & TreeView
- ✓ Login Control & Membership
- ✓ Login, LoginName, LoginStaus, LoginView, PasswordRecovery, ChangePassword, CreateUserWizaed.
- ✓ Ajax Extensions
- ✓ ScriptManager, UpdatePanel, UpdateProgress & Timer
- ✓ Globalization & Ioclization
- ✓ Master Page & Style them
- ✓ Mail
- ✓ SMTP
- ✓ POP3

MVC3

- ✓ Introduction to MVC3
- ✓ The Model-View-Controller Pattern
- ✓ Differences Between MVC and Web Forms Applications
- ✓ Building a Simple MVC Application with Visual Studio
- ✓ Working with Controllers and Actions
- ✓ Introduction to Controllers
- ✓ Using a Controller to Manage the Application
- ✓ Controller Actions
- ✓ Returning Action Results
- ✓ Creating MVC Models
- ✓ Data and Business Rules in MVC Applications
- ✓ Creating a Custom Data Model
- ✓ Data Validation and Data Annotations
- ✓ Using MVC Views
- ✓ Views in ASP.NET MVC

- ✓ Creating Views
- ✓ Adding Content to a View
- ✓ HTML Helpers and Action Filters
- ✓ Using HTML Helpers in MVC
- ✓ Creating a Custom Helper
- ✓ Using Action Filters
- ✓ Creating a Custom Filter
- ✓ Routing and URLs
- ✓ Customizing Application URLs
- ✓ Creating Route Constraints
- ✓ Routing and Web Forms
- ✓ Using MVC and AJAX and JQuery
- ✓ Integrating Client-Side Script with MVC
- ✓ Using the MVC AJAX Helpers
- ✓ Working with JSON Data

Networking

- ✓ Introduction of Networking
- ✓ Understanding socket and port
- ✓ Tcp Client & Tcp Listener
- ✓ TCP/IP based networking
- ✓ HTTP based networking
- ✓ HttpRequest
- ✓ HttpResponse

Remoting

- ✓ Application Domain
- ✓ Remotable & NonRemotable Object
- ✓ Marshal-By-Reference
- ✓ ServerActivatedObject(SAO)
- ✓ SingleCall
- ✓ Singleton
- ✓ ClientActivatedObject
- ✓ Channels
- ✓ TcpChannal
- ✓ Service Configuration & Hosting

LINQ

- ✓ Introduction to LINQ
- ✓ LINQ expressions

- ✓ Using via extension methods
- ✓ Filtering
- ✓ Sorting
- ✓ Aggregation
- ✓ Skip and Take operators
- ✓ Joins
- ✓ Extension methods
- ✓ Object initialization syntax
- ✓ Anonymous types
- ✓ Lambda expressions
- ✓ Deferred Execution
- ✓ Benefits and drawbacks
- ✓ IEnumerable vs IQueryable
- ✓ Using across tiers
- ✓ Data Projection
- ✓ Single result value
- ✓ Existing types
- ✓ Anonymous types
- ✓ Grouping
- ✓ LINQ to XML
- ✓ New XML classes
- ✓ Generating XML
- ✓ Querying XML
- ✓ Using data projection
- ✓ Combining with XPath
- ✓ LINQ to SQL
- ✓ Attributes and mapping
- ✓ Creating a DataContext
- ✓ Deferred loading
- ✓ Saving changes
- ✓ Inserts and deletes
- ✓ Transactions