C#, ADO.NET

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LIVE PROJECTS

PROFESSIONAL CORPORATE TRAINERS

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INTRODUCTION
- Evolution of Microsoft.NET
- Architecture of Microsoft.Net
- Introduction to .Net Framework 4.0
- What is MSIL? CLR
- NET Languages
- Assembly in .Net —Types of Assembly
- The Framework Class Library
- Introduction to Visual Studio .NET
- Different Types of Projects
- Understanding Project & Solution in VS.Net Entry Point Main Method
- Compiling & Building a Project

LANGUAGE FUNDAMENTAL
- Comments and Documenting Syntax comparison of C# and VB.NET
- Data Types(Value types, Reference types) Variables
- Operators
- Conditional Statements
- Looping Structures
- Functions
- Console I0

LANGUAGE FEATURES
- Boxing and UnBoxing
- Iteration and Flow of Control
- Arrays(One Dimensional, Two Dimensional,MultiDimensional)
- Array Methods
- Structures
- Enumerations

CLASSES & OBJECTS
- Object Oriented Programming
- Classes & Objects
- Methods, Properties
- Indexers
- Constructors
- Property
- Inheritance
- Polymorphism (Overloading ,Overriding)
- Namespaces
- Interfaces
- Partial Classes,Partial Methods
- Exception handling
- Creating a Class Library – dll file
- Installing a Assembly in GAC (Global Assembly Cache)

EXCEPTION HANDLING
- Defining Exception
- Understandings try and catch keywords
- Using “finally” block
- “using” statement
- Throwing exceptions
- Creating User defined/Custom Exception class

COLLECTION FRAMEWORK
- Introducing Collections.
- Benefits of Collection Classes .
- Understanding and using commonly used collections.
- Generics
- Advantages of Generics .
- How Generics Work at Runtime .
- Constraint on Type Parameters .
- Generic Methods
- Generic Collections

FILE HANDLING
- Understanding Streams
- Working with System.IO namespace
- Creating and Reading Text Files
- Working with DriveInfo class
- Working Directory Class
- Working with FileInfo class

Delegates & Events
- What is Delegate & Why Delegate
- Creating a Delegate –Singlecast & Multicast
- Events Declaration, Raising and Handling

New Concepts
- Nullable Types
- Extension Methods
- Object Initializers
- Introduction to Task Parallel Library (TPL)

Threading
- Understanding Thread & Process
- Difference between Single & Multi Thread Application
- Creating Threads ,Thread Methods
- Thread Synchronisation- Mutex,Monitor,Semaphore
- User of Async & Await

INTRODUCTION TO SQL SERVER
- What is Database
- Creating Database ,Tables
- Understanding Constraints
- Writing DDL,DML Queries
- Introduction to Stored Procedures

DATA ACCESS & DATA BINDING (ADO.NET)
- ADO.NET Overview
- .Net Data Providers
- Connected & Disconnected Architecture
- Using Data Readers
- Datasets
- Data Tables
- Data Adapters
- Data Bindings with Controls
- DataGridView Controls
- Managing Connection Pooling
- Working with Transactions

WHY TO CHOOSE ENOSIS
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- Study Material In Hard & Soft Format
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WEB DESIGNING

BASICS OF WEB DESIGN
- Client Requirement/specifications
- Creating Concept Layout
- Choosing Color Schemes
- Texture & Typography
- Effective Page Layout

DESIGN PRINCIPLES
- Course Introduction
- Understanding The Web Design Environment
- Website Planning
- Web Typography
- Page Layout And Design
- Graphic And Color
-

DREAMWEAVER
- Introduction
- Dreamweaver Interface Basics
- How To Manage Website
- Types Of Views
- Standard Toolbar
- Common Toolbar
- Layout Tool Bar
- Forms In Dreamweaver

HTML
- Introduction
- Html Basics And Tags
- Html Formatting
- Html Fonts
- Html Styles
- Color Images And Links
- Tables.forms
- Tableless Div Structure
- Iframes
-

HTML5
Introduction To Html5
- Html 5 New Tags
- Html 5 Input Tags
- Html 5 Form Elements And Attributes
- Html 5 Canvas And Svg
- Html Multimedia
- Html 5 Advanced Features
- Html Web Management.
-

CSS
- Introduction To CSS
- Basics Of CSS
- Type Of CSS
- How To Use CSS
- Selectors
- Types Of Selectors
- Various Properties Of CSS

- Color
- Background
- Fonts(Typography)
- Margin & Border Etc.
- Border Types And Style

CSS 3
- Introduction To Css3
- Selectors And Pseudo Classes
- Fonts And Text Effects
- Colors ,gradients
- Background Images
- Transition ,transforms And Animation
- Flexbox And Layout Design
- Responsive Web Design

Responsive Web designing
- Introduction
- Bootstraps Basics
- Bootstrap Environment Setup
- Bootstrap Grid System
- Basic Media Queries

Web Hosting Basics
- Types of Hosting Packages
- Hosting a Websites
- Using FTP Client
- Maintaining a Website
-

JAVASCRIPT
- Introduction To Javascript
- Implementing Menus ,galleries Etc.
- How To Use Javascript In Website

ASP .NET

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SQL SERVER 2012

HTML ,JAVASCRIPT
- Basics of Html
- Designing Web Pages using Html
- HTML Tags & Forms Elements
- Designing CSS & Implementation
- Basic of JavaScript
- JavaScript Variables & Operators
- Programming with JavaScript
- JavaScript Validations
- Embedding JavaScript with html controls

ASP.NET
- Introduction to Client side & Server side programing
- What is ASP.NET
- Page Life Cycle
- Page Layout
- Working with Server Controls
- Validation controls
- Navigation controls

USER INTERFACE DEVELOPMENT
- Master Pages
- Themes
- Creating User Controls

EXCEPTION HANDLING
- Page Level Exceptions
- Site Level Exceptions
- Custom Error Pages
- Tracing

DATA BINDING
- Data Sources
- Data Control (Gridview ,repeater)
- Pagination In Gridview
- Controls In Gridview
- Parameterized Queries
- Editable Gridview
- Updating Bound Controls

STATE MANAGEMENT
- Understanding State Management
- Client Side Vc Server Side State Management
- View State
- Query String
- Cookies
- Sessions
- Session Modes
- Application Objects

CATCHING IN ASP.NET
- Page Output Catching
- Data Catching

SECURITY MECHANISM IN .NET
- Encryption /decryption In .net
- Introduction To Authentication & Authorization
- Types Of Authentication
- Membership And Roles
- Permission To Users And Roles

INTRODUCTION TO AJAX
- Benefits Of Ajax
- Implementing Ajax In A Web Form
- Svript Manager,update Panel,timer,update Progress Control.

INTRODUCTION TO JQUERY

IIS DEPLOYMENT

INTRODUCING SQL SERVER 2012
- What's New in SQL Server?
- SQL Server Editions
- Installing SQL Server
- Internals of Sql Server Database
- MDF & LDF Files

Basics of Database Design
- Normalization
- Denormalization
- Tools for Normalization in SQL Server
- Introducing SQL Server Management Studio
- Creating a Database
- Adding Tables
- Creating Indexes and Constraints
- Building Relations
- Alteration of Table Design

CONSTRAINTS IN SQL SERVER
- What Is Constraint
- Adding Constraint To Column In Table
- Primary Key Constraints
- Unique Constraints
- Check Constraints
- Default
- Foreign Constraints
- Alter Constraints
- Drop Constraints
- Creating Relational Database

JOINS IN SQL SERVER
- Introduction To Joins
- Types Of Join
- Inner Join
- Left Outer Join
- Right Outer Join
- Full Outer Join
- Self Join
- Writing Join Queries

WRITING QUERIES -
- Insert Queries
- Update Queries
- Delete Queries
- Truncate
- The Select Clause
- The From Clause
- The Where Clause
- Mathematical Operator
- Conditional Operator
- AND,OR Operator
- Like Operator
- The Order By Clause
- Aggregate Functions
- String Functions
- Date Functions
- Using Group By And Having
- Using Top N And Top N Recent
- SELECT INTO Queries
- Sub-queries
- UNION
- CTE

T-SQL, Stored Procedures,Functions,
- Views & Triggers
- What is T-SQL?
- Syntax Conventions
- Executing SQL Statements
- Identifiers
- Creating Data Types
- Operators
- Variables
- Using T-sql To Build And Alter Objects
- If-else Statement
- Case Statement
- Looping Statement
- Identity Statement
- Introduction To Stored Procedures
- Writing Stored Procedures
- Using Input & Output Parameters
- Types Of Functions
- Writing Functions.

TRIGGERS
- Creating DML Triggers
- Altering DML Triggers
- Using the Inserted and Deleted Tables
- Auditing Data Using Triggers.

ADVANCED SQL-SERVER
- Temporary Tables
- Error Handling
- Transactions
- Authentication Modes In SQL Server
- Creating Users
- Backup & Restore
- Email Configuration In SQL Server
- Creating Operators
- Automating Task Using Jobs.

Microsoft® SQL Server®

ASP.NET™

ASP.NET MVC

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 MODULE BINDER
- Default Model Binder
- Custom Model Binder

VALIDATION AND ANNOTATION
- Model Validation
- unobtrusive client validation
- 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

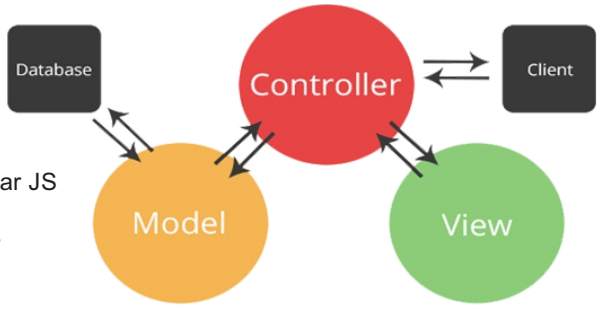
JQUERY AND AJAX
- Introduction to Jquery
- Using Jquery from CDN
- Integration of JQuery with MVC
- Applying Jquery on the Page
- Working with Jquery Selectors
- Applying Jquery Validations
- Jquery UI Controls
- Ajax Helper Methods Controller

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



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