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OUR PROFILE

IT SPARK : THINK INNOVATIVE

.NET Training Overview

We have considerable expertise in providing effective courses for .NET Framework. These courses offer you with the tools and framework to create apps that provides attractive visuals and a great user experience. Our .NET Framework is a component of advanced technology system, it offers a large system of pre-coded solutions to public program requirements. We have several of .NET training courses for an array of technical levels that will aid you in appearing for your Microsoft exam.

Experienced software developers, IT managers and business professionals are appointed by us in order to undertake these courses. Our courses offer absolute environment for creating application system. The .NET Framework is an improved environment that enables language independence to the user. Our .NET courses have been designed under the knowledgeable professionals, who have years of experience in this domain. This training course is a revolutionary platform charged by Microsoft for creating applications. Our training courses are widely regarded by the students, who want to start a career in progress developing interactive software applications industry.

Basic .Net:-

.Net Overview:-

Introduction/Overview of .Net

- ✓ Introduction to .Net
- ✓ Platform for the .Net
- ✓ Drawbacks of Current Trend
- ✓ Net Framework – BCL & CLR | Key design goals
- ✓ CLR, CTS, MSIL & other tools.
- ✓ Multiple Language Interaction & support | Moving from Project to Assemblies...
- ✓ Security in .NET – CAS

C#.NET

- ✓ C# Basics
- ✓ Data Type& variables
- ✓ Operators
- ✓ Looping statements
- ✓ Conditional Statement
- ✓ Array
- ✓ Class & object
- ✓ Constructor
- ✓ Property & Indexer
- ✓ Inheritance & Polymorphism
- ✓ Interfaces & Abstract Classes
- ✓ Delegates and Events
- ✓ Collections& Generic
- ✓ Multithreading Programming
- ✓ Assembly
- ✓ Reflection
- ✓ Boxing & Unboxing value types
- ✓ Exception Handling (Exceptions Handling)
- ✓ Enumerations
- ✓ Structs
- ✓ File Handling
- ✓ Operator overloading
- ✓ Versioning
- ✓ Attributes

Window Form Application:-

- ✓ Windows Forms and Controls
- ✓ Control Class
- ✓ Buttons
- ✓ Text Boxes Labels, Literals
- ✓ Image Controls Picture Box Control
- ✓ Panel Control C#.NET 4.0 Syllabus www.ipssr.org ipssr solutions ltd

- ✓ Combo Box Control
- ✓ List Boxes
- ✓ Dropdown Lists
- ✓ Date Time Picker Control
- ✓ Link Labels
- ✓ Check Boxes
- ✓ Check Box Lists Radio Buttons
- ✓ Radio Button Lists
- ✓ Rich Text Box Control
- ✓ Tab Control
- ✓ Tool Strip Control
- ✓ Menu Strip Control
- ✓ Creating Custom Controls
- ✓ Create New Controls for Forms
- ✓ Create a Control from an Existing
- ✓ Control and Add Functionality

ADO .NET

- ✓ ADO .NET Architecture
- ✓ ADO .NET Data Providers
- ✓ Connection Object
- ✓ Command Object
- ✓ DataReader Object
- ✓ ADO .NET DataSets
- ✓ Data Adapter Object
- ✓ DataSets& XML Data
- ✓ Constraints, Relations and Views in DataSets
- ✓ Stored Procedures in ADO .NET
- ✓ ADO .NET Events
- ✓ ADO .NET Errors
- ✓ Different Wizards for ADO .NET

Database:-

- ✓ SQL Server-2008/2012
- ✓ MS- Access
- ✓ XML
- ✓ My SQL
- ✓ Oracle

ASP.NET

- ✓ ASP .NET WebForms
- ✓ ASP .NET Server Controls
- ✓ Server Control Events
- ✓ Validation Controls
- ✓ User Controls in ASP .NET
- ✓ Working with Master-Detail relationship
- ✓ ASP.NETState Management
- ✓ ASP .NET Caching Services
- ✓ ASP .NET Configuration
- ✓ ASP .NET Web Application Security
- ✓ ASP .NET Mobile Framework
- ✓ Transaction Management
- ✓ Building .NET components
- ✓ Web Services
- ✓ Enterprise Services
- ✓ .NET Remoting

XML

- ✓ Reading and Writing XML,
- ✓ Programmatically
- ✓ Important Classes in the System.XML
- ✓ Namespace
- ✓ Read and Write XML Nodes and Attributes

AJAX (Asynchronous JavaScript and XML)

- ✓ About Ajax
- ✓ Setting up and implementing Ajax
- ✓ Summary

LINQ Syllabus

✓ C# Language Extension 3.5 (Prerequisite)

✓ LINQ Architecture

- Understanding the LINQ Framework
- LINQ Provider
- LINQ to Object
- LINQ to SQL
- LINQ to Dataset
- LINQ to XML

✓ LINQ to Object

- IEnumerable<T> and IQueryable<T> interface
- System.Linq namespace
- Query Expressions
- Lambda Expressions
- Using Custom Class Collection

✓ LINQ to SQL

- Defining the Data Model class
- Using Mapping attributes
- Using the Data Context class
- Defining Relationships using Associations
- Creating a customized Data Context class
- LINQ to SQL Designer (DBML File)
- Performing Add/Edit/Delete/View Operations
- Tracking changes to entities
- Submitting changes
- Concurrency error handling issues
- Join Query
- Validating Entities
- Transaction Handling
- Executing Stored Procedure
- LINQ to SQL architecture
- LINQ to XML
- Understanding the LINQ to XML Class hierarchy
- Create an XML document
- Loading existing XML document
- Querying XML using LINQ to XML
- Manipulating XML

✓ LINQ to Dataset

- Querying Datasets
- Querying typed Datasets
- Using LINQ over Dataset with Table Adapter Entity Framework Syllabus

Entity Framework Introduction

- ✓ What is ADO.NET Entity Framework
- ✓ Comparing EF with LINQ to SQL
- ✓ EF Architecture
- ✓ EF Versions History
- ✓ First EF Application and Creating EDMX File
- ✓ DbContextvsObjectContext

CRUD Operations

- ✓ Members of DbContext and DbSet
- ✓ Entity Life Cycle and ObjectStateManager
- ✓ Example Performing CRUD Operations
- ✓ Executing Stored Procedure
- ✓ EDM Relationships
- ✓ Querying Database
- ✓ LINQ Queries
- ✓ Entity SQL Queries
- ✓ Lazy Loading
- ✓ Eager Loading
- ✓ Explicit Loading
- ✓ No-Tracking Queries

Advance .Net:-MVC:-

- ✓ Prerequisites of Asp.net Mvc4
- ✓ Entity Framework
 - Entity Framework Introduction.
- ✓ JQuery
 - JQuery Introduction.

Introduction to ASP.NET MVC2, MVC3, MVC4

- ✓ The role of the Model, View, and Controller
- ✓ Key benefits of ASP.NET MVC2, MVC3, MVC4

Getting Started with ASP.NET MVC2, MVC3, MVC4

- ✓ ASP.NET **MVC2, MVC3, MVC4** project templates
- ✓ Understanding the structure of an ASP.NET **MVC2, MVC3, MVC4** project
- ✓ Naming conventions
- ✓ Creating views
- ✓ Defining controllers
- ✓ Defining a data model

Creating a Complete ASP.NET MVC2, MVC3, MVC4 Application

- ✓ Creating strongly-typed views
- ✓ Understanding URLs and action methods
- ✓ Using HTML helpers
- ✓ Handling form post-backs
- ✓ Data validation

Using the Razor View Engine

- ✓ Getting started with Razor
- ✓ Razor design goals
- ✓ Implementing a Razor view
- ✓ Razor syntax
- ✓ Accessing Model Data in Razor views

Industrial-Strength ASP.NET MVC2, MVC3, MVC4 Applications

- ✓ ASP.NET application architecture best practices
- ✓ Implementing a Repository and Entity Framework Data Model
- ✓ Implementing a custom controller factory

View Techniques

- ✓ Defining and using custom HTML Helpers
- ✓ Defining a layout / **MVC2,MVC3,MVC4** Master Page
- ✓ Using Styles
- ✓ Defining and using partial views
- ✓ Razor Helper Method syntax

Implementing Navigation in MVC web apps

- ✓ Defining view-model classes
- ✓ Implementing Data Filtering in a Controller
- ✓ Understanding the Routing mechanism
- ✓ Adding custom entries to a route table
- ✓ Defining defaults, parameters, and validation
- ✓ Generating URLs and Hyperlinks
- ✓ Custom Route constraints

MVC2, MVC3, MVC4 State Management

- ✓ Using hidden fields
- ✓ Session and Application State
- ✓ Custom model bindings

ASP.NET MVC & LINQ - working with Data

- ✓ Language features used in LINQ
- ✓ Creating simple LINQ queries
- ✓ Using LINQ queries in a Web application;
- ✓ Defining a data repository;
- ✓ Using LINQ to define a data access component

ASP.NET Web API with MVC

- ✓ Overview of the ASP.NET Web API
- ✓ Building servers and clients
- ✓ Content negotiation
- ✓ Validation
- ✓ Query able Interfaces

WCF:-

- ✓ Introduction to WCF & SOA
- ✓ Fundamentals of WCF
- ✓ Getting Started with WCF
- ✓ Working with Contracts
- ✓ Implementing Your Services
- ✓ More Powerful WCF Clients
- ✓ Service Management
- ✓ Advanced WCF Operations
- ✓ Unit Testing Linq, WPF and WCF
- ✓ Applications with VS2012
- ✓ Unit Testing

WPF:-

Creating an Application by Using WPF

- ✓ Overview of WPF
- ✓ Creating a Simple WPF Application
- ✓ Handling Events and Commands
- ✓ Navigating Between Pages

Overview of the MVVM Design Pattern

About the MVVM pattern
MVVM Architecture
Simple Applications
Defining better structure for large applications
The Role of the Model
The Role of the View
The Role of the View-Model

Microsoft Dot Net (Advance)

- ✓ WCF - Windows Communication Foundation
- ✓ WPF - Windows Presentation Foundation
- ✓ WWF - Windows Workflow Foundation
- ✓ Ajax
- ✓ Arrays, Generics and Collections

- ✓ Image Handling and File System
- ✓ Localization and Globalization
- ✓ Linq

Microsoft Dot Net (Advance)

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- ✓ Localization and Globalization
- ✓ Linq
- ✓ Web Service
- ✓ XML and XSLT
- ✓ Project

We expertise in the following IT Domains:

- IBM AS/400
- JAVA TECHNOLOGY
- J2EE
- .NET TECHNOLOGY
- SQT
- SAS
- SEO / SMO / SEM
- DATAWARE HOUSING
- RED HAT ADMINISTRATION
- C/C++ LANGUAGE
- ORACLE SKILL SET
- SYNON
- SAN
- ITIL
- IBM MAINFRAME
- EMBEDDED SYSTEM

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