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|  | **Course Objective** |
|  | .NET(Network Enabled Technologies) is a world-shattering advance in programming technology platform that greatly simplifies any kind of application development like Windows Desktop, Mobile, Internet **Web Application Development**, etc.,  .NET is very essential for those who want to be into application development  Our training method with a realistic, hands-on, in depth knowledge and skills to develop Rich Internet Web applications by using C#-Programming, OOPs using C#, ASP.NET, ADO.NET ,Linq To Sql (ORM) using Microsoft Visual Studio 2015.  This advanced Microsoft visual studio .net c sharp training course teaches a deep exploration of .NET development philosophy and practical advice. This best advanced visual c# .net training also examines the fundamentals of C# essential for writing ASP.NET programs.  This Best .net training is also designed to help you prepare for interviews with experience in your hand. |

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|  | **Pre-requisite** |
|  | We prefer candidates have a basic knowledge of any one programming language like C, C++, Pascal or any other programming language basics. This will help in understanding the subject in simple way. The seeker need not know object orientation as this will be thought from the scratch |

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|  | **Course Target** |
|  | This training program targets participant to Job Description  Web Application Development using ASP.NET with 3 Tier Architecture  **Concepts:**  C# - Programming, OOPs using C#  Advanced Client Side technologies ( html-1, css-1, javascrpt-1, jquery-2, ajax-1, angularjs-5)  Web Application development using ASP.NET with 3 Tier Architecture ( 20+ )  Database Concepts using Sql Server ( 2classes )  Database communication using ADO.NET and ORM(Linq To Sql)  Soap based Web Services |

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|  | **.NET Introduction**  **&**  **Architecture** | Introduction to .NET, Architecture, Framework  .NET File execution, CLR with their components.  Visual studio versions, framework versions.  Understand Project and solutions  Different versions of .NET Framework |
| 1 | **Programming**  **using**  **C#.NET** | Introduction to C#.NET  Built in Class libraries, Writing C#.NET program,  Working with Console class, String class, Covert class,  DateTime, Math, StringBuilder classes etc., |
| 2 | CTS (Common Type system)  Working with value types like int, char, double, bool, etc.,  Reference types like object, delegate, pointer, etc.,  Type conversions, ASCII  Working with Placeholders, read different types of data |
| 3 | Control structures if, switch,  Different operators like mathematical, relational, logical, increment and decrement, ternary operator, etc., |
| 4 | Loops ( while loop, for loop, do..while, foreach loop )  Keywords: break, continue, etc., |
| 5 |  | Understand Arrays.  Working with Single Dimension, Double Dimension and **Jagged Array** |
| 6 | **OOPs using C#** | Oops concepts ( Encapsulation, Abstraction, Inheritance, Polymorphism) |
| 7 | OOPS using C#.NET (Abstract classes, Interfaces, POCO Classes) |
| 8 | Methods  Parameterized methods ( ref, out, params) |
|  | Abstract class, interface, Static class, partial class, sealed class |
|  | Exception Handling |
| 9 | Collections & Generics |
| 10 | Assemblies & Class libraries |
| 11 | **SQL Server Concepts** | Introduction to RDBMS |
| 12 | Working with DDL, DML commands |
| 13 | Crud operations using Queries |
| 14 | Crud operations using Stored Procedures |
| 15 | Examples to perform CRUD operations |

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|  | **Web Application Development using Client side technologies** |
|  | Overview of HTML Concepts |
|  | Overview of CSS Concepts |
|  | AJAX Concepts |
|  | Standard Data formats: XML and Json, csv format |

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| **ASP.NET WebForms Contents** | | |
| 1 | ASP.NET | Introduction to Web Application, WebSite, Web Server, Web Browsers, Web Page, WebForm.  Different between Client side and Server side scripting.  GET and POST methods  HttpRequest and HttpResponse objects |
| 2 |  | HTTP protocol, URL, response object, request object.  Asp.net Page Submission process, ASP.NET page level events. |
| 3 | Web Server Controls | Creating Web application, Using Server Side Tools, Sample programs using controls like  (Textbox, Label, Literal, Calender, Checkbox, RadioButton, etc.,) |
| 4 | LIST Controls | Dynamic Polymorphism, Real-time examples using List Controls(CheckboxList, RadioButtonList, BulletedList, DropDownList, ListBox). |
| 5 | Postback | Working with Postback,  IsPostBack, AutopostBack, CrossPagePostback.  Demo |
| 6 | Validation Controls | RequiredFieldValidator, RangeValidator, RegularExpressionValidator, CompareValidator, CustomValidator, ValidationSummary |
| 7 | Page Redirection  (Navigation Techniques) | LinkButton, HyperLink, PostBackURL property  Response.Redirect |
| 8 | Master Pages | Introduction,  Sample Example |
| 9 | ADO.NET  (3 classes) | Introduction  Connection and Disconnection Oriented Model differences  Classes used in SQL Server (System.Data.SqlClient)  ConnectionString, Establishing DB Connection  CRUD Operations using SqlCommand class methods  ExecuteReader(),ExecuteScalar(), ExecuteNonQuery |
| 10 | DataBound Controls | DataBoundControls (GridView, FormView, DetailsView)  DataSource Controls (SqlDataSource, XMLDataSource, ObjectDataSource, etc.,) |
| 11 | Working with  POCO classes | Handling objects/entities using Linq  Linq To SQL |
| 12 | Business Object | Create POCO Class  Implement DB operations of particular table in database |
| 13 | Linq | Linq Architecture  Linq type query  Sql Like Queries |
| 14 | ORM using LinqToSql (DLinq) | To interact with Sql Server database  Simplify database interaction. |
| 15 | State Management Techniques | Introduction, Default HTTP State, Introduction, Default HTTP State,  Working with viewstate, Querystring,  session, cookies, Cache, Application  Working with web.config file |
| 16 | Web Services | SOA Introduction,  Advantages, SOAP,  WSDL, UDDI  Creating a Web Service, Consuming Web Service. |
| 17 | MVC.NET introduction | Introduction and architecture of MVC  Sample Application using EFW |

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|  | **Real Time Project Development Concepts** | |
|  | Project | Introduction (Banking Application)  Understand agile methodology  Essential concepts  Coding standards  Web site development cycle |
|  | N Tier Architecture | Introduction with real time example  Sample Application with CRUD Operations |
|  | Web Server  IIS | Working with IIS, Installation of IIS,  Hosting application in IIS  Difference between IIS and IISExpress  App Pool, App Domain |
|  | ASP.NET Security | Authentication and Authorization  Examples on Anonymous Authentication,  Windows Authentication,  Forms(Web) Authentication and authorization |

Sir Mentioned to us that he will explain this topics further

MVC.NET 1 week

Project

Scaffold

EFW

Hosting Application into IIS ( make your application available in the network)

Web Services (SOAP based services)

RESTful Services ( WEB API)

WCF Concepts

Design Patterns