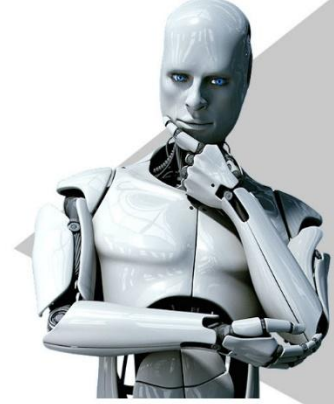


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.Net

The **.NET Framework** is a software framework developed by Microsoft that runs primarily on Microsoft Windows. It includes a large class library known as Framework Class Library (FCL) and provides language interoperability (each language can use code written in other languages) across several programming languages. Programs written for .NET Framework execute in a software environment (as contrasted to hardware environment), known as Common Language Runtime (CLR), an application virtual machine that provides services such as security, memory management, and exception handling. FCL and CLR together constitute .NET Framework.

Introduction of .Net

- Use of .net
- D.N.A architecture

Introduction of all frameworks

- Introduction of all frameworks
- CLR(Common Language Runtime)
- CTS(Common Type System)
- CLS(Common Language Specification)
- MSIL/IL(Microsoft Intermediate Language /Intermediate Language)
- Managed/Unmanaged code

Data Type

- Value type
- Use of Value type
- Reference Type
- Use of Reference Type

Syntax of C#

- Language fundamental
- Declare and Initializing value
- Conditional operator
- C# operator
- SwitchCase
- Looping Syntax



CONTACT

9311512927/7503504035

ADMIN@STUCORNER.COM



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CHOWK , LAXMI NAGAR , DELHI-92

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- Array
- Structure
- Namespace

Oop_s Concepts

Class

- What is class
- Use of class

Scope of Class

- General Class
- Seald Class
- Partial Class
- Abstract Class
- Static Class
- Generic Class

Encapsulation

- What is encapsulation
- What is delegates and event
- Type of delegate

Inheritance

- Type of Inheritance
- Implement of Inheritance
- Core concepts of constructor
- Method overloading method overriding and hiding concept
- Class access modifiers

Polymorphism

- What is polymorphism
- Type of polymorphism
- Method overloading

Interface

- Use of Interface.
- Implement of multiple Inheritance.

Collection

- Array List
- Stack



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9311512927/7503504035
ADMIN@STUCORNER.COM



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- Queue
- Hash Table
- Sorted List

Generic Collection

- List<>
- Stack<>
- Queue<>
- Dictionary<>

Specialized Collection

- Name Value Collection

File Handling

- System.IO Namespace
- StreamReader and StreamWriter class
- File Class
- Directory Class
- Path Class
- Work with assignment

Exception Handling

- Difference between error, bug and exception
- System level exception
- Application level exception
- Try and catch block
- Handle multiple exception
- Finally block
- Throw block

Forms and Controls

- System define control
- User define control
- Dynamic control (Run time)
- Working with SDI form
- Working with MDI form

ADO.Net

- Introduction of ADO and ADO.Net
- Providers
- Connected and Disconnected mode
- Connection string



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9311512927/7503504035

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Ado.Net Architecture

- The Connection Object
- The Command Object
- The Dataset Object
- The Data Reader Object
- The Data Adapter Object

Working with Dataset

- DataTable.
- DataColumn.
- DataRow.
- Get data from Using DataSet.
- Updating, Inserting, Deleting in data table.
- Using Command Builder
- Apply key constant by front end

Working with Connected Mode

- Command and Connection class
- Execute Command with Command Object
- Working With [ExecuteSclar, ExecuteNonQuery and Executereader Functions]
- Parameter class
- Transaction class

Working With different databases

- Working with Sql Server
- Working with MS EXCES
- Working with EXCEL Sheet

ASP.Net

Introduction of Asp.net

- Need of web Application
- Http protocol
- Static and Dynamic page
- Difference between Asp and Asp.net

Introduction of HTML

- Creating a simple HTML page
- Creating a HTML tags
- Hosting a HTML page
- LIS virtual directory
- Request transfer throws get and post methods over pages using ASP.net
- Creating server pages



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- Understanding page life cycle
- Handling page requesting
- Http request object
- Understanding post back
- Auto event wire up
- Tracing and debugging ASP.net page

State Management

- Introduction of stateless process
- Need of state persistence

Type of state management

HTTP Cookies

- Cookies creations
- Cookies types
- Non persistence
- Persistence
- Third party
- Single value
- Multi value
- Scope of cookies and their merits

HTTP Session

- Understand the session
- Understand session cleanup and creation
- Implementation session setting in web.config file
- In process and out process session management
- Session state using sql server
- Session state mode
- Session state using state services

HTTP Application

- Understand application life cycle
- Understand application cleanup and creation
- Implementation and use application object
- Working with global.asax

Query string meth

- Implementation of query string

State management using post back URL

- Context handler class
- Is cross post back
- Understand postback URL



- Page object working
- Previous page process

View State

- Understanding view state
- Store value in view state
- Retrieve values from view state

State management using hidden fields

Server controls

Standard controls

- Text box
- Combo box
- List box
- Check box
- Addrolator control
- File upload control
- Multiview control
- And many more

Validation controls

- Types of validation controls
- Working with range,regularexpression,compare and required field validator controls
- Use control validate property
- Custom validator control
- Implementation of client and server side validation
- Working with validation summary control

Data bind controls

Use of data binding control (formatted and unformatted)

Working with repeater control

- Working with template
- Working with repeater events
- Understand event bubbling
- Working with datalist control
- Working with template
- Working with datalist events

Working with gridview control

- Data binding with gridview
- Working with column collection
- Using paging
- Sort



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ADMIN@STUCORNER.COM



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Working with formview control

- Working with template
- Working with repeater events

Working with details view controls

- Working with template
- Working with repeater events
- Understand event bubbling

Navigation control

Site map

- Define a site map file
- Use a site map
- Binding a site map

Tree view

- Property of tree view
- Define a node relation
- Binding with site map
- Menu control
- Property of menu view
- Define an item relation
- Binding with site map

Caching

Introduction of caching

Need analysis of caching

Type of caching

- Page output caching
- Declarative output caching
- Time duration and local setting
- Parameter caching settings

Caching with HTTP cache policy class

- Post cache substitution& fragment caching
- Data caching
- Cache object
- Managing data into cache



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9311512927/7503504035

ADMIN@STUCORNER.COM



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Skin- theme and css

Css

- Creating style sheet
- Apply style sheet
- Creating rules
- Creating elements setting

Skin theme

- Theme folder and skin
- Creating theme
- Apply theme
- Handling theme conflict
- Using css in a theme
- Apply theme dynamically

Master pages

- Introduction and need of master page
- Creating a master page
- Default contents
- Master page with css and table layout
- Applying master page through configuration file
- Dynamic setting a master page
- Nested master page
- Master page and relative path

Security

- Understand the security concepts
- Types of security

Forms

- Define a form base security
- Applying security
- Form authentication class and their methods
- Declare user intoweb configuration
- Apply password formats
- Location attribute
- Authentication
- Authorization

Windows



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- Apply window base security
- Its setting regarding window authentication
- Authentication

Login controls

- Configure form authentication
- Creating a data source
- Configure connection string and membership provider
- Creating a authentication user
- Using security controls
- Login control
- Login status control
- Login view control
- Password recovery control
- Change password control
- Creating and manage roles
- Apply role in security

Advance .net

Linq

- Understanding the role of linq
- Linq query expression
- Linq and non generic collection
- Linq and generic collection
- Linq to database
- Linq to sql

Assembly and development

- Role of .net assembly
- Building and consume a single file assembly
- Building and consume a multifile assembly
- Private assembly
- Shared assembly
- Creating multiple version of a single assembly
- DLL hell problem

Reflection

- System. Reflection namespace
- Core reflection classes
- Accessing assembly through reflection
- Use of type Class
- Use of MethodInfo Class



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- Browsing and Querying member
- Invoking method and property and runtime

Remoting

- Introduction
- Remoting architecture and scenario
- Creating .net remoting object
- Activation Type
- Singleton
- Single call
- Creating Channel
- Implementation of a remote base application

Windows Communication Foundation(WCF)

- The role of WCF
- WCF architecture
- Difference b/w WCF and Web services
- ABC architecture
- Hosting
- Type of Binding
- BasicHttpBinding
- WSHttpBinding
- WSDualHttpBinding
- WSFederationHttpBinding
- NetTcpBinding
- NetNamedpipeBinding
- NetMsmqBinding
- NetPeerTcpBinding
- Transaction

Window Presentation Foundation

- Introduction
- Introduction of XAML
- Difference b/w WPF framework and Window framework
- Layouts
- Controls
- Designing
- Data Binding
- Resource Dictionary
- Use of Setter
- Use of Cursor
- Animation

Model View Control (MVC)

- Introduction



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- Use of MVC
- Difference b/w MVC and Asp.net
- Creating a Master Page
- Creating a Model
- Creating a View
- Manage the Model and View using Control
- Using EDM[Entity Database Module]

Globalization and Localization

- Introduction of Multilingual application
- Understanding Culture and UICulture
- Convert one Language into another Language

Tools

- Crystal Report
- Ajax
- Web Services
- SQL Server

Live Project On .Net

Live project means Live which is run at client End.



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9311512927/7503504035

ADMIN@STUCORNER.COM



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