





Client Side Technologies

- ⇒ Html5
- ⇒ CSS
- ⇒ Javascript
- ⇒ Bootstrap

C# Language (*Upto C#11)

- ⇒ C#.Net
- ⇒ Language Fundamentals
- ⇒ Oops
- ⇒ Strings
- ⇒ Multithreading
- ⇒ Class Library
- ⇒ 10
- ⇒ Collections
- ⇒ DataAnnotations
- ⇒ Regular Expressions

RDBMS

- ⇒ Normalization
- ⇒ SQLServer

Database Library

- ⇒ ADO.Net
- ⇒ EF.Net (SQLServer, MySql and Oracle)
- ⇒ Lina
- ⇒ N-Tier Architecture Application

Database Library

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Web Application Framework Library .Net Framework based*

- ⇒ ASP.Net
- ⇒ ASP.Net MVC
- ⇒ ASP.Net Web API

.Net Core Framework based

- ⇒ .Net Core
- ⇒ ASP.Net Core
- ⇒ ASP.Net MVC Core
- ⇒ ASP.Net Web API Core REST
- ⇒ EF.Net Core
- ⇒ Other Important Topics

Tools

⇒ Postman, Fiddler

IDE

⇒ Visual Studio 2019,2022 and Visual Studio Code

Server

⇒ IIS

Architecture & Development

⇒ Design Patterns

Testing

⇒ Nunit and Others

Clinet Side Javascript Frameworks

- ⇒ node introduction
- ⇒ Angular or React

Repository

⇒ Git

Cloud - Application Level*

- ⇒ Use of different resources of Azure
- ⇒ Deployment of .Net Web Applications on Azure
- ⇒ CI & CD Pipelines using Azure Repos
- ⇒ Deployment of .Net App using Docker
- Deployment of .Net with Kubernetes AKS





.Net Core - ASP.Net Core ASP.Net MVC Core with EF.Core

- ⇒ Introduction to .Net Core
- ⇒ Net Core Templates
- ⇒ Asp.Net Core Templates
- ⇒ Advantages of .Net core
- ⇒ Asp.Net MVC Core Template
- ⇒ Folders for Models, Controllers, Views, wwwroot, css, js, lib
- Architecture, Model, View, Controller
- → Middleware
- Dependency injection in .Net core
- ⇒ Hierarchy of middleware
- ⇒ UseDeveloperExceptionPage
- ⇒ UseAuthentication
- ⇒ UseMvc, UseExceptionHandler
- ⇒ Profiles
- Environment variables in launchSettings.json
- ⇒ DbContext, AddMvc, Singleton, AddTransient, AddScoped
- ⇒ Routing Endpoints
- ⇒ Controllers Actions Views
- ⇒ _Layout, ViewStart files
- ⇒ Razor engine rendering
- ⇒ use of @ symbol
- RenderBody, RenderSection, Scripts
- ⇒ HTML helpers & Tag helpers
- ⇒ Data Annotations Validations
- ⇒ PartialViews
- ⇒ Logging
- ⇒ Filters
- ⇒ Database programming with EF.Core
- CRUP Operations
- ⇒ Working and Customizing Scafolding Views

Asp.Net Core Web Api - REST

- ⇒ Introduction
- REST web service, Web API & Microservice
- → Inside HttpRequest HttpResponse
- ⇒ Action Verbs Types
- ⇒ HttpStatusCodes in WebAPI
- ⇒ Create First REST Web API
- Configuration and Configuration files in Web API
- ⇒ Swagger Installation Usage
- ⇒ Postman for all types of reuest types with data and authorization

- ⇒ Routes Practices
- ⇒ Filters Practices
- CRUD operations using Web API with EF.Core
- ⇒ What is CORS? CORS enablement
- ⇒ Security in WebAPI
- ⇒ JWT Usage in Web API
- ⇒ Using REST Web API by React Application

Asp.Net AWhat is MVC?, Why MVC?with C#

- ⇒ Asp.Net MVC
- Introduction, background and difference w.r.t. ASP.Net Webforms
- ⇒ MVC request pipeline
- ⇒ Model, View, Controller
- ⇒ Controller actions
- ⇒ MVC with Database
- ⇒ Model Binding
- ⇒ Layouts
- ⇒ Partial Views
- ⇒ Razor Engine
- ⇒ Data Annotations
- ⇒ URL Routing
- → Model Validation server and client side
- ⇒ Session Handling
- ⇒ Exception Handling
- ⇒ Security
- → Interview Questions

Asp.Net WebAPI

- Creating/ Configuring Web API project
- ⇒ Testing Web API
- ➡ Web API Controller
- ⇒ Parameter Binding
- ⇒ Action Return type
- ⇒ Data Formats
- → Media Type Formatters
- ⇒ Web API Filters
- ⇒ Web API for CRUD
- GetMethod, PostMethod, PutMethod, DeleteMethod
- ⇒ Consuming Web Api
- ⇒ Http Client
- ⇒ Dependency Injection
- ⇒ WebAPI Hosting
- → Interview Questions





RDBMS

- ⇒ Normalization
- ⇒ Importance Redundancy , Inconsistancy , Performance
- □ Types of Normalforms
- ⇒ Keys
- ⇒ First, 2nd, 3rd Normal
- ⇒ Practices

SQL Server

- → Management Studio
- □ Tables Colums Datatypes Constraints
- ⇒ DDL Create , Drop, Alter
- ⇒ DML Insert , Update, Delete
- ⇒ Select Complete Structure
- ⇒ Subqueries
- ⇒ Joins
- **⇒** Functions
- ⇒ Procedures
- ⇒ Triggers
- ⇒ Indexes
- ⇒ Transactions
- ⇒ Practices

Ado.Net

- ⇒ Namespaces
- ⇒ Connected Architecture
- ⇒ Disconnected Architecture -Dataset
- CURD Operations using above

EF.Net

- ⇒ ORM Framework
- ⇒ Model
- ⇒ Mapping
- ⇒ Data access layer
- ⇒ CodeFirst with existing database
- ⇒ CodeFirst with non existing database
- ⇒ Seeding Database Initialization
- ⇒ Database First
- ⇒ Data Annotations in EF
- ⇒ Regualar Expressions in EF
- ⇒ FluentAPI
- ⇒ Layered Architecture
- CRUD Operations

Introduction to Frameworks

- ⇒ .Net Framework
- ⇒ .Net Standard
- ⇒ .Net Core
- ⇒ .Net 5, 6, 7

Introduction to Types of Applications Introduction to Visual Studio 2019/2022 Net vs Other Technologies

C# Language Fundamentals - C#10.0

- ⇒ Versions and Frameworks
- ⇒ Basic Structure of Console Application
- ⇒ using statement
- ⇒ Datatypes
- ⇒ Primitive datatypes Value Type Predefined
- ⇒ Abstract datatypes Reference Type Userdefined
- ⇒ Advanced datatypes
- ⇒ Type safety
- ⇒ Variables declaration , initialization
- ⇒ Basic input and output methods
- ⇒ Type casting
- ⇒ Control Structures
- ⇒ if, if..else, if..else if...else
- ⇒ switch
- ⇒ do..while, while, for
- ⇒ foreach
- ⇒ Operators
- ⇒ Strings
- → Arrays
- Interview Questions

Oops using C#

- Principles of Oops
- ⇒ Encapsulation Datahiding Abstraction
- ⇒ Inheritance Reusability Extensibility
- ⇒ Polymorphism Overloading Overriding
- ⇒ Access Specifiers Modifiers
- ⇒ Full Syntax to create a class
- ⇒ Full Syntax to create a variable
- ⇒ Full Syntax to create a method
- Class vs Structure
- ⇒ Concrete Class
- Constructor, Destructor
- ⇒ Object Object , Collection Initializers
- ⇒ Finalizer





- ⇒ Static
- ⇒ Abstract
- ⇒ Sealed
- ⇒ Virtual
- ⇒ Partial
- ⇒ Override
- ⇒ Const , Readonly
- ref, out parameters
- ⇒ Var variable
- ⇒ unsafe
- ⇒ class with properties
- ⇒ Indexer
- ⇒ Iterator
- ⇒ Async await
- ⇒ Interfaces Importance Full Abstraction
- Anonymous method , class
- ⇒ Interview Questions

Exception Handling - Compiler - Syntax - Runtime - Logical

- ⇒ try..catch..finally structure
- ⇒ Predefined exceptions
- ⇒ Userdefined exceptions
- ⇒ thow
- ⇒ Interview Questions

Delegates

- ⇒ What is delegate
- ⇒ Types of delegates Single , Multicast
- ⇒ Delegates with Named vs. Anonymous Methods
- ⇒ Interview Questions

Multithreading

- ⇒ Creating and Managing Threads
- ➡ Thread Life Cycle Pause , Interupt, Destroy
- ➡ ThreadPriority State Storage Data
- ⇒ Synchronization
- ⇒ Interview Questions

Class Library - Namespace - DLL - Componentization

- ⇒ and SortedDictionary
- **⇔** Concurrency
- ⇒ Interview Questions

Ling

- ⇒ Ling structure
- ⇒ Write LINQ queries in C#
- ⇒ Using Where , Group by , Order by
- ⇒ Subquery
- ⇒ joins
- ⇒ Practices
- ⇒ Interview Questions

Lambda expressions

- ⇒ anonymous function
- ⇒ Expression lambda
- ⇒ Statement lambda
- ⇒ Practices
- ⇒ Interview Questions

IN

- ⇒ Reader, Writer
- ⇒ StreamReader,StreamWriter
- ⇒ File ,Directory Related library
- ⇒ Exceptions

Data Annotation

- ⇒ Validations
- ⇒ Mapping
- ⇒ Best practices
- ⇒ Interview Questions

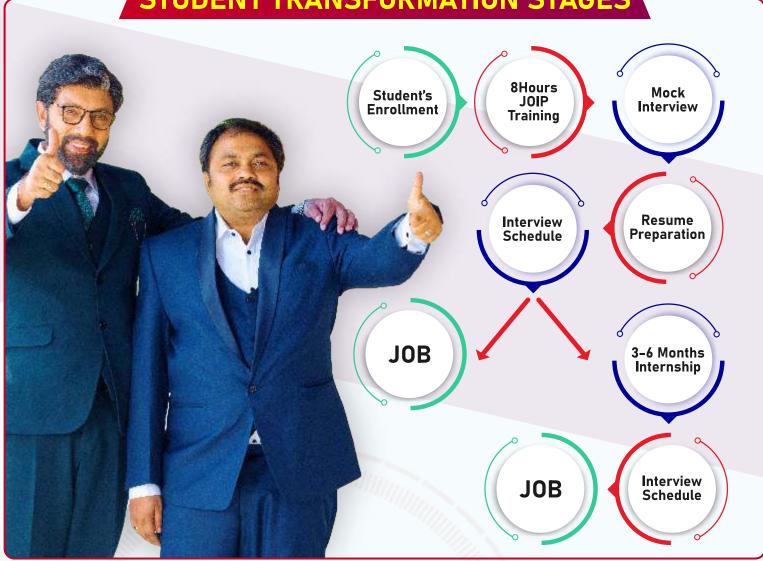
Regular Expression

- ⇒ Character Escapes, Character Classes
- ⇒ Anchors
- ⇒ Grouping Constructs
- Quantifiers, Backreference Constructs
- ⇒ Alternation Constructs
- ⇒ Best practices for regular expressions
- ⇒ Interview Questions









OUR STUDENTS ARE PLACED IN





























































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