

.NET Full Stack Batch Mock Client Interview Topics



DBMS Concepts and MS SQL Server

- Introduction to Databases
- Database Models
 - Relational Model
- Data Design and Normalization
- Structured Query Language and its categories
 - DDL – DML – DQL – DCL – TCL
- SELECT statement varieties with clauses
 - WHERE clause
 - GROUP BY clause
 - HAVING clause
 - ORDER BY clause
- Using SQL Server built in Functions
- Joining the tables – Join variants
 - Equi and Non-Equi Joins
 - Self-Join
 - Cartesian Product
 - Outer Join
- Subqueries
- Implementing Views
- Implementing Data Integrity by using Constraints
 - Data Integrity Overview
 - Creating Constraints
 - Implementing Constraints
 - Not Null
 - Unique Key
 - Primary key
 - Check Constraints
 - Default
 - Foreign Key
- Implementing Stored Procedures and Functions

C# 8.0 Programming with .NET Core 3.0**.NET Core:**

- Intro to .NET Core
- Why .NET Core
- Advantages
- Features
- Creating a console application in .NET core
- Building from Command Prompt
- Executing a Core Project from Command Prompt

C# Types

- Value and Ref Types
- String Manipulation
- Arrays

- Boxing and Unboxing
- Type Conversion
- Scope
- Nullable Types
- Named and Optional Arguments

C# Flow Control

- Branching
- Switching
- Looping
- Using Foreach

Object Oriented Programming

- Characteristics of Object-Oriented Programming
- Classes and Objects
- namespaces
- Constructor
- Properties
- Inheritance
- Access Modifiers
- Virtual members
- Abstract classes
- Static
- Read-only and const fields
- Interfaces

Exception Handling

- Built in Exceptions
- Handling Exceptions
- Custom Exception classes
- Throwing exceptions

Generics and Collections

- Need of Generics
- Generic Classes
- Generic Methods & Constraints
- Non-generic Collections
- Generic Collections
 - List
 - Stack
 - Queue
 - Dictionary
 - SortedList
- Benefits of Generic Collections

LINQ

- Introduction to Language Integrated Query

- Query a collection of objects

LAMBDA Expressions

- Introduction to Expression Language Syntax using Lambda Expression

ADO.NET

- Overview of ADO.NET
- ADO.NET APIs
- Performing CRUD Operations using Connected
- Performing CRUD Operations using Disconnected