



KKAR Technologies

...Career Through opportunities

Syllabus of Dont net

C#

1. What is .Net?
2. Why do we require Framework/IDE
3. Fundamentals of .Net Framework
4. .Net Architecture
5. How to create first Console application
6. Statements, Expressions, operators and operands in C#
7. Control Statements in C#
8. Fundamentals of C#
9. String data type and string methods, String VS String Builder
10. Var Vs Dynamic
11. Data Types(Value types and Reference types) with Practical example to differentiate
12. Collections (Array, Array list and generics would be covered after OOPS)
13. OOPs in detail(Encapsulation,Abstraction,Polymorphism And Inheritance) with Practical examples for below class members
 - Field
 - Properties
 - Constructor
 - Destructor
 - Methods/Functions
 - Indexers
 - Delegates
 - Events
14. Access Modifiers – Private,Public, internal,Protected
15. Static Constructor
16. Const Vs Readonly
17. Partial Classes
18. Out and Ref
19. Optional Parameters
20. Anonymous methods
21. Lamda expression

22. Abstract class Vs Interfaces where we should use them
23. Exception handling
24. How does Garbage collection works in more detail Finalize vs dispose
25. Collections in Detail(Index based, Key based, Prioritized and Specialized)

Windows Application

Will develop small windows application in the process of developing the app will cover below concepts

1. What is Windows application and where do we use this application.
2. How to create new windows application
3. Windows Form life cycle
4. Controls in Windows application
5. ADO.Net Basics
6. Connection
7. Command
8. Data Reader
9. Adapter
10. Dataset
11. CRUD operations using ADO.Net
12. Multithreading features of .NET
13. Deploying windows application
14. How to create n tier application

ASP.NET

1. What is Web application
2. How does Web application works
3. Fundamentals of IIS(Create VD, App pool etc)
4. How to create Web application using VS 2015 IDE
5. Asp.Net request life cycle (3 stages which included Page lifecycle)
6. Difference between Server controls and HTML controls
7. ISPostBack and Auto Post Back
8. Redirection methods
9. Statemanagement Concepts in great detail
10. Cookies
11. Hidden field
12. ViewState

13. Query String
14. Application
15. Session(InProc, State server, Sql server)
16. User controls
17. Validating Asp.Net page using Validation controls and Javascript
18. Master page creation and Usage
19. Caching
20. Inline Grid Editing with Practical Example
21. Security with Great detail

Advanced .Net

MVC:

1. Installing MVC
2. WHY MVC
3. Creating First MVC Application
4. Controllers in MVC
5. Models in MVC
6. Views in MVC
7. Ways to create CRUD operations in MVC
8. Routing in MVC
9. Attribute routing
10. MVC lifecycle
11. ViewBag Vs ViewData Vs TempData Vs Session
12. Strongly typed models
13. Posting data from View to Controller
14. Model Binder
15. View Model
16. Dropdownlist control
17. Radio button control
18. Entity Framework detail explanation with Practical example
19. CRUD operations using strongly typed model
20. JQuery Basics
21. CRUD operations using JQuery Ajax
22. Action filters in MVC

23. Result types in MVC
24. DataAnnotations in MVC
25. Bundling and Minification
26. Scaffolding
27. Serverside validation
28. Clientside validation

WCF:

1. What Service Oriented Architecture
2. What is WCF
3. Advantages over Web services
4. What is ABC in WCF(Address, Binding and contract)
5. Contract in WCF
6. Service Contract
7. Operation Contract
8. Data Contract
9. Message Contract
10. Fault Contract
11. Bindings in WCF
12. Hosting WCF application
13. Practical example for Self hosting
14. Practical example for IIS hosting
15. Exchange patterns in WCF
16. Request/Response
17. Oneway
18. Duplex
19. Security in WCF
20. How does SSL work with an example
21. Transactions in WCF

WEBAPI

1. What is Rest
2. Why WebApi
3. Formats in WEBAPI
4. How to create Web API application for all http methods
5. HttpResponseMessage

6. How to upload files using WEBAPI
7. Logging in WEBAPI
8. ODATA in WEBAPI
9. CRUD operations using MVC with WEBAPI
10. Async Services
11. Security in WEBAPI

Linq:

1. Linq fundamentals
2. Three parts of a Query Operation
3. Obtain the data source
4. Create the Query
5. Execute the Query
6. Operations
7. Transformations using Linq
8. Linq to Sql
9. CURD operations using Linq to Sql
10. Difference between Linq to Sql and Entity Framework

- Project Assistance would be provided
- Support would be available till he/she gets a required job
- Resume preparation assistance
- Mock interviews would be conducted