



RMS SKILLS

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DOT NET SYLLABUS

THE COMMON LANGUAGE RUNTIME (C.L.R.)

- CLR Architecture and Services
- The .Net Intermediate Language (IL)
- Just- In- Time Compilation and CLS
- Disassembling .Net Application to IL
- Strict Type Checking

.NET FRAMEWORK CLASS LIBRARY

- System Namespace
- System .Object Namespace
- System .Collection Namespace
- System .Type
- Exception

SYNTAX & DATA TYPES LANGUAGE FUNDAMENTAL

- Data type and Control Constructs
- Value and Reference Types
- Declaring and Initializing Variables
- Unicode Characters and Strings
- C.T.S Type
- Implicitly Typed Local Variables
- Conditional Syntax
- C# Operator
- Looping Syntax
- Structure

ARRAY & STRING

- Arrays in General
- Declaring of different type Arrays
- Initializing Arrays
- Accessing element of different type Array Members

- Arrays of Objects
- Structure type array
- Using for each with Arrays
- Understanding System. String class and its various operations

OOPS CONCEPTS CLASSES

- Encapsulating Attribute
- Class & Object Creation
- Define Constructor
- Type of Constructor
- Define Methods and their Type
- Overloading Methods and Constructor overloading
- Define Property and their Types
- The Memory Allocation with New Keyword
- Passing Initial Values with Constructor
- Invoking Property and Methods

INHERITANCE

- Implementing Inheritance Hierarchies
- Class Access Modifiers
- Method Overloading, Overriding and Hiding Concepts
- Run time polymorphism
- Abstract and Sealed Class
- Exposing Interface
- Implementation Interface in a Class
- Play with Namespaces
- Interface Polymorphism
- Operator Overloading
- Partial Class

EXCEPTION HANDLING

- Means of Error, Bug and Exceptions
- Role of .Net Exception Handling
- System Level Exception
- Application Level Exception
- Try and Catch Block
- Handling Multiple Exception
- Finally Block
- Throw Exception on Request Custom Exception

EVENTS AND DELEGATES

- Event Driven Programming
- Delegate, Event and its association
- Synchronous and asynchronous operation with delegate
- User Defined events and delegates
- Multicasting with Delegates
- Anonymous methods

- Anonymous Methods with events
- Generic Delegates

MULTITHREADING

- Understand multithreading process
- The System Threading namespace
- The Thread and Thread Start class
- Thread life cycle
- Thread Safety Concept
- Thread synchronization
- Understanding Thread Pool
- Understanding Role of Thread Background Worker Component

I/O OPERATIONS WITH FILE SYSTEMS

- File and Directory Class
- Marshal Classes, File Info and Directory Info
- Path Class
- Drive Info Class
- Stream Object with Files: Stream Reader, Stream Writer
- File Stream and Memory Stream

INTRODUCTION TO ADO.NET

- How ADO.NET works and how it differs from ADO?
- Evolution of ADO to ADO.NET

ADO.NET AND IT'S ARCHITECTURE

- Connection Object
- Command Object
- Dataset
- Data Reader Object
- Data Adapter Object
- Concurrency and the Disconnected Data Architecture
- Provider

DATA SET

- Creating Tables in Dataset
- Data Column
- Data Row
- Data Table
- Updating, Inserting and Modification in Data Table
- Saving Changes into Data Base using Command Builder
- Working With Command and Connection

CONNECTIONS AND COMMAND OBJECT

- Connection Object
- Command Object
- Execute Non Query
- Execute Scalar

DATA READER

- Reading Data in Connected Environment
- Moving and Accessing Value of Record
- Execute Reader

DATAGRIDVIEW & DATA BINDING

- Row State Filter and Sort Property
- Update records via a Datagridview
- Insert records via a Datagridview
- Delete records via a Datagridview

TRANSACTION

- Introduction of Transaction (ACID)
- Transaction Class
- Method and Property
- Commit and Rollback

ASP.NET

INTRODUCTION TO WEB FORM

- Need of Web Application
- Http Protocol
- Static and Dynamic Page
- Concept Working of IIS and Browser
- Differences between ASP and ASP.NET

INTRODUCTION TO HTML CONTROLS

- Creating a Simple HTML Page
- Html Tags
- Hosting a HTML Page
- IIS virtual Directory
- Request Transfer Throws Get and Post Methods

SERVER PAGES USING ASP.NET

- Creating sever pages
- Architecture of handling request In Web server
- Http request object
- Http response object
- Understanding post back

UNDERSTANDING PAGE LIFE CYCLE

- Understanding of Application Life Cycle
- Page Life-cycle Stages
- Life-cycle Events
- Autoeventwireup
- Tracing and debugging asp.net pages

STATE MANAGEMENT

- Client side State Management

- Introduction of stateless process
- Http Cookies
- Query String Method
- View State
- Hidden Field
- Server Side State Management
- Http Session
- Http Application
- Global.asax
- Web.Config

SERVER CONTROL FORM VALIDATION

- Working with Range, Regular Expression & Compare
- Required Field Validator Controls
- Use Control to Validate Property
- Custom Validator Control
- Implementation of Client and Server Side Validation
- Working with Validation Summary

WEB FORM CONTROL

- Textbox
- Check Box
- List Box
- Dropdown List Control
- Add Rotator Control
- File Upload Control
- Multi View Control
- Login Control
- Image control
- Radio button control

DATA BINDING SERVER CONTROLS

- Use of Data Binding Control
- Type of Data Binding Control (Formatted and Unformatted)

Working with Grid View Control

- Data binding with Grid View
- Working with Column Collection
- Using Paging
- Sort
- Working with Data List Control
- Working with Template
- Working with Data List Events

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

ASP.NET WEB SECURITY

- Windows
- Forms
- Passport

ASP.NET AJAX

- Introduction of AJAX
- Role of script manager
- Understanding and working with update panel
- Understanding and Working with Timer control
- Creating AJAX enabled website
- Creating an AJAX enabled web service

SKIN & THEME

- Cascading Style Sheets
- Scoping Themes
- Themes Vs Cascading Style Sheets
- Create a Skin
- Apply a theme to a Web Site

CASCADING STYLE SHEET

- Creating style sheet
- Apply Style Sheet
- Creating Rules
- Creating Elements setting

MORE DATA BINDING SERVER CONTROLS

- Working with Form View Control
- Working with Template
- Working with Form View Events
- Working with Details View Control
- Working with Template
- Working with Details View Events
- Understand Event Bubbling

ASP.NET CACHING

- Introduction ,Need ,Type of caching
- Page output Caching
- Declarative output caching

- Time duration and location setting
- Parameter caching settings
- Page fragment Caching
- Time duration setting
- Parameter caching Setting
- Parameter caching setting
- Caching with HTTPCachePolicy Class
- Post Cache Substitution & Fragment
- Data Caching
- Managing Data into cache
- XML classes

LINQ Syllabus

INTRODUCTION

- Introduction of LINQ
- Understanding Automatic Properties
- Understanding Initializers
- Understanding Type Inference
- Understanding Anonymous Types
- Understanding Generics
- Understanding Lambda Expressions
- Understanding Extension Methods

LINQ to SQL

- Performing standard Database Commands with LINQ to SQL
- LINQ to Objects Versus LINQ to SQL
- Selecting with LINQ to SQL
- Inserting with LINQ to SQL
- Updating with LINQ to SQL
- Deleting with LINQ to SQL
- Dynamic Queries
- Debugging LINQ to SQL

WINDOWS COMMUNICATION FOUNDATION (W.C.F.)

- The role of W.C.F
- W.C.F project template
- Understanding WCF Addressing
- Understanding WCF Bindings
- Understanding WCF Contracts
- Understanding WCF Endpoint
- Composition of basic W.C.F
- Building a W.C.F service
- Hosting a W.C.F service
- Building a W.C.F client application

MS-SQL

1 - Introduction

- What Is Database?
- What is Database Management System (DBMS)?
- What is Relational Model ?
- Introduction to RDBMS .
- Brief on E.F CODD .

2 - Datatypes and Constraints

- What are Datatypes ?
- Types and Examples .
- How to use .
- What are Constraints?
- Types and Examples.
- How to use.

3 - Statements in SQL

- Data Definition Language (DDL)
- Data Manipulation Language (DML)
- Transaction Control Language (TCL)
- Data Control Language (DCL)
- Data Query Language (DQL)

4- Software installation

- Installing and set up of software
- Working on Oracle 10g.

5- Data Query Language (DQL)

- Select
- From
- Where
- Group By
- Having
- Order By

6 -Operators

- Types and Examples

7- Functions in SQL

- Single Row Functions
- Multi Row Functions
- Max ()
- Min ()
- Sum ()
- Avg ()
- Count ()

8-Sub Query

- Introduction to Sub Query
- Working of Sub Query
- Query Writing and Execution
- Types of Sub Query
 1. Single Row Sub Query
 2. Multi Row Sub Query
- Nested Sub Query.

10- Pseudo Columns

- Introduction on Pseudo Columns
- ROWID
- ROWNUM
- Working and Usage.

11- JOINS

- What Is Join?
- Types of Joins.
- Cartesian Join
- Inner Join
- Outer Join
- Self-Join
- Queries and Examples.

12- Co- Related Sub Query

- Working and Examples

13- Data Definition Language (DDL)

- Create
- Rename
- Alter
- Truncate
- Drop

14- Data Manipulation Language (DML)

- Insert
- Update
- Delete

15- Transaction Control Language (TCL)

- Commit
- Save point
- Rollback

16- Data Control Language (DCL)

- Grant
- Revoke

17 - Normalization

- Introduction to Normalization
- Types of Normal Forms
- Examples.

18- E R Diagrams

- Introduction to ERD
- Examples.

WEB TECHNOLOGY :

Web Technology

1.Introduction to Web-technology :

- . What is web?
- . What is network?
- . What is internet?
- . What is web-development?
- . What is browser?
- . What is web-server?
- . What is http?
- . What is the use of http?
- . What is html?
- . What is website?
- . What is web-page?
- . Structure of Web
- . Definition of all the points
- . Install of Editors
- . How to write program using editors

2.HTML-5 :

Introduction:

- . Structure of html
- . What is tags?
- . Types of tags
- . Attributes
- . All tags attributes
- . How to apply all the attributes in web-pages

Table :

- . How to create table in Html

- . Attributes of table
- . Example

List :

- . How to create list
- . Attributes of list
- . Example

Audio/Video:

- . Attributes of audio/video tag
- . How to create audio page
- . How to create video page

I-frame :

- . What is nested web-page?
- . How to create nested web-pages
- . Attributes of nested web-pages

SVG :

- . How to define graphics in html
- . Attributes of SVG

Form :

- . What is form
- . How to create forms using html
- . How to create log-in page
- . How to create registration page using form
- . Attributes of form

3. CSS-3 :**Introduction:**

- . What is css?
- . What is the use of css?
- . Types of css
- . How to call css inside html pages

Background:

- . How to set background properties
- . Attributes for background

Box-Model:

- . What is box-model in css
- . How to work with box-model

Selectors:

- . What is selector?
- . Types of selector
- . How to apply selector

Combinators:

- . What is combinators?

- . Types of combinators
- . How it is related to selectors

Pseudo-class & Pseudo-elements:

- . What is pseudo-class?
- . What is pseudo-elements
- . Types of pseudo-class
- . Types of pseudo-elements
- . How to apply

Transition, Transform & Animation in css :

- . Applications of Transition, Transform & Animation
- . Use of Transition, Transform & Animation
- . Basic Project based on Transition, Transform & Animation.

4. Javascript :

Introduction:

- . What is javascript?
- . What is the difference between java & javascript
- . Application of javascript
- . Advantages & Disadvantages of javascript
- . Types of javascript
- . Datatypes in javascript
- . Looping Statement
- . Conditional Statement

Function & Arrays:

- . What is function
- . What is array
- . Types of function
- . Methods of array

String & Object :

- . What is string
- . Methods of string
- . What is object
- . How to create object in js

Date & Math :

- . What is date method
- . What is math method
- . Methods of date & math

Collection in js :

- . What is collection
- . Types of collection

Advanced array methods in js

- . Javascript Closure
- . DOM elements in javascript
- . Json in javascript
- . Ajax in javascript
- . Canvas using javascript

Regular Expression in js:

- . What is regular expression
- . How to create dynamic form in js

5. Bootstrap :

Introduction:

- . What is bootstrap
- . How to apply bootstrap in web-pages
- . Benefits of using bootstrap
- . Grid system in bootstrap
- . Classes in bootstrap
- . How to create table using bootstrap-class
- . How to create forms using bootstrap-class
- . What is carousel in bootstrap
- . How to apply all of this create one project.

Project Set-up:

- . Responsive project using Html, Css ,Javascript & bootstrap

● ASP.NET MVC

WITH INDUSTRIAL LIVE PROJECTS