

## **CMC NOIDA(TCS SUBSIDIARY)**

I am sharing profile of some trainers as we have so many trainers in all technologies all trainers are experienced and certified and handling so many batches and helping students in their Projects.

**Our Training Fees is:8000+service Tax**

Candidates will get certificate from CMC LTD A TATA Enterprise.

For More Details candidates can contact me directly **Shumaila:9266625607**

### **Android Trainer Profile:**

- **4 Year of experience in Android mobile application software development and training .**
- Experience in development with comprehensive understanding of software development life cycle (SDLC), various phases like Requirements Analysis, Design, Development and Testing.
- Explicit knowledge of mobile device architectures, Android SDK and mobile development platform.
- Proficient with common Android framework APIs (**Telephone, Location, Media, Google Map**).
- Extensive knowledge of Android Software Stack Architectures, Application Lifecycle, Custom UI controls, Designing protocols, Implementing delegate interface, and Performance optimization.
- Experience working with remote data via **XML and JSON (XML and JSON Parsing)**.

### **Technical Skills**

<b>Programming language</b>	C, C#, Java
<b>Operating system</b>	Windows-Family, Linux (Ubuntu), Mac
<b>Mobile Technologies</b>	Android, J2ME, S40, Iphone(IOS), Windows,
<b>Mobile Application DB</b>	SQLite 3.7
<b>Web Servers</b>	Apache Tomcat6 Server, Weblogic, IBM WebSphere.
<b>Technologies</b>	Dot Net (ASP.net, ADO.net, XML), J2EE (Servlet, JSP, EJB,JDBC, RMI), Web Services
<b>Scripting Languages</b>	HTML5,CSS3, JavaScript, XML, JQuery Mobile, JSON
<b>Java IDE</b>	Eclipse and NetBeans
<b>Others</b>	PhoneGap , Titanium, IBM Worklight, RDBMS, SQL Server 2005, 2008 Software Testing, Software Engineering, Data structures, UML

## Projects Profile

- 1- Basera (Real Estate & Properties ) (Live Project)
- 2- City Sketch (Live Project)
- 3- Baby Names on Android(Live Project)
- 4- PlacesCityGuide on Android (Live Project)
- 5- Vision Asia on Android (Live Project)
- 6- gotcubed on Android (Live Project)
- 7- NCR Tourism on Android

**8- RJ Tourism on Android**

**9- iSafe on Android**

**10- Property Manager on Android**

**11- Music Player on Android**

**12- Call Manager on Android**

**13- Baby's EDU on Android**

## **.Net Trainer Profile:**

### **Trainer Brief Profile:-**

Experience : 9+ Yrs.

Training Handled : Tech Mahindra, HCL, TCS, GAIL and so many in house training in  
College campus.

Qualification : B.Tech

- 3+ years of Exposure in Mentoring, Leading & Conducting Training and Development programs at various Organization/Project resource levels.
- 3+ years of extensive experience in designing and developing Web-based and Client-Server based applications using MS .Net Technologies & Frameworks viz [ASP.NET](#), C#, SQL Server 2008.
- 3+ years of hands-on experience using program based & Object Oriented programming technologies i.e. C, C++, .NET ([ASP.NET](#), C#.NET), RDBMS-SQL/My Sql/Firebird.
- Working knowledge of Windows Presentation Foundation (WPF) which provides developers with a unified programming model for building rich windows smart client user experiences that incorporate UI, media and Documents.
- Expertise in each level of SDLC i.e. analysis, planning, developing, implementing & testing the websites using web based tools/technologies, such as .NET(ASP,C#) ,Core PHP to manage various in-house and third party projects. Also involved in maintenance

Part Of these Websites & if required,customizing application systems Designing, Coding, testing and user documentation.

- Excellent understanding of working with cross-functional teams which may involve Business Requirement Gathering(BRD),Functional Requirement gathering(FRD),Client specifications while simultaneously co-coordinating with delivery team for smooth execution,with-in time & budget.
- Having excellent analytical, problem solving, communication skills and excellent team player.
- Excellent Knowledge of OOPs Concept.
- Working knowledge of MVC 3 and 4 with Razor View Engine.
- Working Experience in WCF.

#### TECHNICAL SKILLSET:

Programming	MVC 3 and 4, ASP.Net, Ado.Net, C#, Advance .Net (Wcf, WebServices, LINQ, Wpf, Silverlight) C++, C, Data Structure, XML Core PHP, Core Java.
Platforms	Microsoft .NET Framework 4.0/3.5/2.0/1.1/1.0, <a href="#">ADO.NET</a> object model, <a href="#">ASP.NET</a> 4.0/3.5/2.0/1.1,AJAX,JavaScript,HTML,CascadingStyleShee(CSS),JQUERY.
Databases	MS-SQL Server 2008/2005,MySQL
Tools	Visual Studio 2010/2008/2005
Server Technologies	IIS 6.0, IIS 5.0,Apache

## MCITP

### CONFIGURING WINDOWS 7

- Installing and updating windows 7
- Managing User Profile, Creating System Image
- Managing Devices Driver and Disk
- Managing Basic Disk and Dynamic Disk
- Managing APPLocker, Software Restriction Policy
- Introduction to IPv4, Connecting to a network
- Troubleshooting network Connectivity

### ANALYZING THE IPV6 ADDRESS STRUCTURE

- Advantage of IPV6
- Managing Windows Firewall and advance security
- Windows 7 Remote Management
- Folder and File Access and Encrypting the File
- Managing User account control
- User Account Control policy

### SECPOL AND LOCAL SECURITY POLICY

- Automating and configuring direct access
- VPN, Remote Desktop and Application publishing
- Managing Windows Update and internet Explorer
- Monitoring, Performance, Recovery and Backup

### CONFIGURING WINDOWS SERVER 2008 ACTIVE DIRECTORY INSTALLING ACTIVE DIRECTORY DOMAIN SERVICES DIRECTORY SERVICES

- Objects In active directory
- Delegation and security of active directory services
- Automating the creation of user account
- Creating the user with Power shell and VBscript
- Creating and managing Group Account
- Adminstrating the group in an enterprise
- Creating the computer and joining the Domain
- Implementing and managing the Group policy scope
- Delegating the support of computer
- Managing the soft with group policy soft installation
- Installing and configuring Domain name system
- Configuring Operations Master, DFS, Site & Services
- Configuring Global Catalog and Application Partition
- Configuring Replication
- Understanding Domain and Forest function level
- Managing multiple Domain and Trust relationship
- Understanding and installing AD LDS
- Understanding and installing Active Directory Certificate Services
- Understanding & installing Right Mgmt. Services
- Active Directory Federation Services

### CONFIGURING WINDOWS SERVER 2008 NETWORK INFRASTRUCTURE

- Understanding and configuring network Access
- Understanding IPv6 and IPV6
- Understanding Name resolution in windows 2008 server
- Deploying a DNS Server, Config DNS Client Setting
- Creating and configuring Zone
- Configuring Zone Replication and transfer
- Implementing Stub Zone, Installing a DHCP server

- Configuring a DHCP Server, Backup of DHCP
- Restore of DHCP, Managing Printers
- Configuring IP Routing
- Configuring Network Address Translation
- Managing File security, Backup and Restoration File
- Configuring RRAS & VPN Protecting Network traffic with IPSEC
- Configuring Firewall & Wireless Network Network Access Protection, Understanding Windows server Update services
- Monitoring Event Log
- Monitoring Performance & Reliability

### CONFIGURING WINDOWS SERVER 2008 APPLICATION INFRASTRUCTURE

- Implementing and configuring Windows Deployment Infrastructure
- Deploying Virtual Machine
- Implementing a Windows Activation Infrastructure
- Configuring Server Storage & Server Cluster
- Installing and configuring Terminal server
- Configuring and managing Terminal server Client
- Deploying Terminal server Gateway
- Publishing application with TS Remote App
- Installing and configuring WEB Application
- Installing the web server roles
- Configuring Internet Information Services
- Managing web server security
- Controlling access to web services
- Configuring FTP/SMTP services & windows media services
- Configuring & managing Sharepoint Services
- WSS Installation
- Using the sharePoint central administration Web site

### WINDOWS SERVER ENTERPRISE ADMINISTRATION

- Planning name resolution & Internet protocol addressing
- Deploying AD DS Forest and Domain
- Deploying AD DS Physical Topology Planning for Migration
- Upgrade and restructuring
- Planning For Interoperability
- Designing the directory administrative model
- Designing Enterprise -Level Group Policy strategy
- Designing the network Level strategy
- Network access policy & server & Domain isolation
- Branch office deployment & server security
- Securing windows server 2008 in the branch office
- Planning terminal server & Application Deployment
- Planning Operating System virtualization
- Planning Application virtualization
- Identified PKI Requirement
- Designing the CA Hierarchy

For More Detail Visit [www.cmcnoida.com](http://www.cmcnoida.com)

## CCNA

### NETWORKING FUNDAMENTALS

- Introduction to Computer Networking concepts
- Perspective on Networking
- The TCP/IP N/Wing Concepts, Protocol, DOD model

### INTRODUCTION TO OSI REFERENCE MODEL

- OSI reference model, Cisco Layer, IP addressing
- Ethernet Data-Link Protocols
- IP Address Subnetting Basics, VLSM
- Troubleshooting Of IP Addressing, Network Utilities
- Lab: Network Layer Utilities

### CISCO INTERNETWORK OPERATING SYSTEM (IOS) AND SECURITY DEVICE MANAGER (SDM)

- The IOS user interface, Command-line interface
- Router & Switch Administrative Configuration
- Router Interface, Cisco Password, Viewing Saving
- Erase Configuration, Cisco Security Device Manager

### HANDS-ON LAB

- Logging in to Router, Using Help and Editing feature
- Saving a router Configuration, Setting Your Password
- Password Encryption, Usernames & SSH
- Setting Hostname, IP address and Clock Rate
- Installing SDM on Machine

### MANAGING A CISCO INTERNETWORK

- The Internal Component Of Cisco Router
- The Router Boot Sequence
- Managing Configuration Register
- Backing and Restoring the Cisco IOS
- Backing up and restoring Cisco configuration
- Cisco Discovery protocol (CDP) using Telnet
- Resolving hostname

### HANDS-ON LAB

- Backup & Restoring Router IOS
- Backing up The Router Configuration
- Using CDP, Telnet, resolving Hostname

### IP ROUTING

- Basic, Static, Default Routing, Principal of Routing
- Routing Protoco

### HANDS-ON LAB

- Creating Static Routing, Creating Default routing
- Troubleshooting of Static & default routing

### RIP, IGRP AND EIGRP

- Configuring Rip, IGRP, Routing loop, Split Horizon
- Holddown, Route Poisoning
- Communicate between RIP v1 and RIP v2
- RIP Timer, EIGRP Feature and Operation

### HANDS-ON LAB

- RIP & IGRP Configuring, RIP v1 and RIP v2
- Debug RIP, Passive-interfaces

### EIGRP AND OSPF

- Using EIGRP to support large network, RTP, DUAL
- EIGRP Metric, Configuring EIGRP
- Load balancing with EIGRP, Basic of OSPF

### HANDS-ON LAB

- Configuring & verifying EIGRP, Route Summarization

### EIGRP AND OSPF

- Concept of Single Area and Multi Area of OSPF
- Configuring OSPF, Verifying OSPF configuration
- OSPF DR, BDR Election, OSPF & Loopback Interface

### HANDS-ON LAB

- Configuring OSPF, Neighbors
- OSPF DR and BDR Election

### LAN SWITCHING

- Virtual LANs, Virtual LAN Concepts
- VLAN & VLAN Trunking Configuration & Verification
- VTP Configuration & Verification
- InterVLAN Routing

### HANDS-ON LAB

- VLAN, Trunking, Inter-Vlan routing, Troubleshooting

### SPANNING TREE PROTOCOL

- Spanning Tree Protocol, Rapid STP
- STP Configuration, Verification & Troubleshooting

### HANDS-ON LAB

- STP, STP Port Costs, Switch Priority, RSTP

### IP ACCESS CONTROL LISTS

- Standard & Extended IP Access Control List
- Advances in Managing ACL Configuration

### HANDS-ON LAB

- Standard ACL, Extended ACL, Named Access List

### WIDE AREA NETWORKS

- WAN Concept & Technology
- IP Services for Internet Access
- Point-to-Point WANs, PPP Concepts & Configuration

### HAND-ON LAB

- Basic PPP, CHAP Confiture & Debugging PAP & CHAP

### FRAME RELAY CONCEPTS

- Frame Relay overview
- Addressing Network Layer Concerns
- Frame Relay, Verification & troubleshooting

### HANDS-ON LAB

- Frame Relay configuration & Address mapping
- Frame Relay & Static Frame Relay Mapping
- Troubleshooting

### VIRTUAL PRIVATE NETWORKS AND NAT

- Network Address Translation & Translation concepts
- NAT Configuration & Troubleshooting
- VPN fundamentals, IPsec VPNs

### HANDS-ON LAB

- Static & Dynamic NAT, NAT Overload (PAT)

### IP VERSION 6

- Global Unicast Addressing, Routing & Subnetting
- IPv6 Protocols and Addressing
- Configuring IPv6 Routing and Routing Protocols
- IPv6 Transition Options, Wireless LAN Concepts

- Deploying WLANs, Wireless LAN Security

### HANDS-ON LAB

- Configuring Static IPv6 Addresses
- Configuring IPv6 Routing and Routing Protocols

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# JAVA

## JAVA (CORE)

### REVIEW OF JAVA FUNDAMENTALS

- The Java Environment, Data Types, The String Class
- The StringBuffer Class, Arrays
- OOPs Feature and implementation in java
- Passing Data Types to a Method
- Constructors & Initialization
- Inheritance, Abstract Classes, Interfaces, Static Data
- Methods and Blocks, Wrapper Classes, I/O

### PACKAGING AND DISTRIBUTING A JAVA APPLICATION

- Packages, Managing Source & Class Files
- The javadoc Utility
- Documenting Classes & Interfaces, Documenting Fields, Documenting Constructors and Methods
- Running the javadoc Utility
- Jar Files, The Manifest File
- Bundling and Using Jar-Packaged Resources

### MISCELLANEOUS ENHANCEMENTS

- Enhanced for Loop, Autoboxing and Auto-Unboxing
- Static Imports, varArgs, Typesafe Enums
- Formatted Strings, Specifier Syntax, Integer Example
- Format Specifier Conversions, Specifier Flags
- Formatted Floating Points Example, Strings Example
- Formatted Dates & Complex Formatted Example

### ASSERTIONS

- Introduction, Assertion Syntax
- Compiling with Assertions
- Enabling and Disabling Assertions, Assertion Usage

### REGULAR EXPRESSIONS

- Regular Expressions, String Literal, Character Classes
- Quantifiers, Capturing Groups and Backreferences
- Boundary Matchers, Pattern and Matcher

### INTRODUCTION TO APPLET

- Use an applet on a Web page, Manage applet thread
- Send and receive applet parameters
- Display fonts and colors in applets

### INTRODUCTION TO AWT & SWING

- Rational for the Swing Components
- Java Foundation Classes, Lightweight Components
- Features of the Swing Components
- The AWT Components
- An Example Using the AWT Components
- Building a Minimum Swing Application
- Window Positioning, Handling Window Events
- Window Closing Styles, Inner Classes
- Anonymous Inner Classes
- JButton with Selected Fonts
- JButton with an Icon & Mnemonic
- The Icon Interface
- Labels, The Focus, Focus Traversal, Keyboard Input
- Keyboard Shortcuts, Keystrokes and Actions
- Flow, Grid, Border, Card
- GridBag Layout, Box, Overlay
- GridBagConstraints, Models, Views, and Controllers

## THE JAVA COLLECTION CLASSES

- Introduction, The Arrays Class
- Searching and Sorting Arrays of Primitives
- Sorting Arrays of Objects
- The Comparable and Comparator Interfaces
- Sorting - Using Comparable
- Comparator, Collections
- Lists and Sets, Iterators, Lists and Iterators Example
- Maps, Maps and Iterators Example
- The Collections Class
- Rules of Thumb

### GENERICS

- Introduction, Defining Simple Generics
  - Generics & Subtyping
  - Wildcards, Bounded Wildcards, Generic Methods
- ### ADVANCED I/O
- Introduction, Basic File I/O Example, Buffered I/O
  - The Console Class, Object Serialization
  - Serialization Issues

### NETWORKING

- Networking Fundamentals, The Client/Server Model
- InetAddress, URLs, Sockets, A Time-of-Day Client
- Writing Servers, Client/Server Example

### THREADS AND CONCURRENCY

- Review of Fundamentals
- Creating Threads by Extending Thread
- Creating Threads by Implementing Runnable
- Advantages of Using Threads
- Thread Daemon, Thread States, Thread Problems
- Synchronization, Performance Issues

### REMOTE METHOD INVOCATION (RMI)

- Introduction, RMI Architecture
- The Remote Interface
- The Remote Object, Writing the Server
- The RMI Compiler
- Writing the Client
- Remote Method Arguments and Return Values
- Dynamic Loading of Stub Classes
- Remote RMI Client Example
- Running the Remote RMI Client Example

### JAVA DATABASE CONNECTIVITY (JDBC)

- Introduction, JDBC Driver Types
- Relational Databases
- Structured Query Language
- A Sample Program, Meta Data
- Processing Database Data
- Executing statements, precompiled statements
- Stored procedures, Processing ResultSets
- Dealing with Null data, Updating
- Inserting, retrieving data
- Controlling Transactions

# JAVA

## JAVA (ADVANCE)

### JAVA DATABASE CONNECTIVITY (JDBC)

- Introduction, JDBC Driver Types
- Relational Database
- Structured Query Language
- A Sample Program, Meta Data
- Processing Database Data, Executing statements
- Precompiled statements and stored procedures
- Processing ResultSets, Dealing with Null data
- Updating, inserting, retrieving data
- Controlling Transactions

### SERVLETS & JSP WITH THE JSP STANDARD TAG LIBRARY (JSTL)

#### WEB APPLICATION BASICS

- How the Web works, Thin Clients
- TCP/IP, HTTP overview
- Brief HTML review, Overview of Java EE, servlets
- Web applications, Servlet Basics

#### SERVLET API

- HTML Forms, HTTP: Request-response
- Headers, GET, POST
- How Servlets Work
- Servlet Lifecycle: init(), service(), destroy()
- Requests & responses
- Core Servlet API: GenericServlet
- ServletRequest & ServletResponse
- HTTP Servlets: HttpServletRequest
- HttpServletResponse

#### JAVASERVER PAGES

##### BASICS AND OVERVIEW

- JSP architecture, tags and expressions
  - Fixed Template Data, Lifecycle of a JSP
- ##### MODEL VIEW CONTROLLER (MVC)

- Model 1/Model 2 Architecture

##### DATA SHARING AMONG SERVLETS & JSP

- Request, application, session and page scope
- <jsp:useBean>, <jsp:getProperty>
- <jsp:setProperty>
- <jsp:include>, <jsp:forward>

##### MORE JSP CAPABILITIES AND SESSION

###### MANAGEMENT

- HTTP as a stateless protocol, Hidden form fields
- Cookies: Overview, API, Using cookies
- Session overview: Cookies and session tracking
- HttpSession, Putting data into a session object
- Retrieving data from a session object
- Additional JSP Capabilities
- Exception handling & error pages
- Directives (page, include, others) Import declaration
- Multithreading considerations and data safety
- SingleThreadModel interface

##### ADDITIONAL JSP CAPABILITIES

- JSP Directives, Error Pages, JSP and Java
- Declarations, Scriptlet overview, Scriptlet syntax

## OVERVIEW OF THE STRUTS 2 FRAMEWORK

- Tiered, Model-View-Controller (MVC) Architecture
- The Struts 2 Framework
- Bundling the Struts 2 Libraries
- Creating a Basic Struts 2 Web Application

### STRUTS CONFIGURATION FILES

- An Overview of Struts Configuration Files
- The struts.xml Configuration File
- The package Element
- The action Element, The result Element
- The struts.properties Configuration File
- Examining the HelloStruts
- HelloStruts Application

### ACTIONS IN DETAIL

- POJOs as Actions, Implementing the Action Interface
- Actions Accessing Resources
- The ActionSupport Class

### RESULTS AND RESULT TYPES

- The result Element, Standard Result Types
- Global Results and Exception Mappings
- SearchingForResults, A ButtonBuilder Application

### INTERCEPTORS

- An Overview of Interceptors
- Struts Predefined Interceptors
- A Simple & A Progress Meter Example
- Interceptor Details, Programmatic Validation of Data

### OGNL AND THE VALUE STACK

- An Overview of OGNL & Value Stack
- OGNL with Java Collections and Maps
- Collections and Maps, Additional OGNL Features

### GENERIC TAGS

- Generic Data & Control Tags
- Data & Control Tags Reference

### FORM TAGS

- Form Tags, Shared Form Tag Attributes
- Form Tags Reference

### GETTING STARTED WITH HIBERNATE

- What is Hibernate?
  - Using, Configuring Hibernate
  - Hibernate Sessions
  - Writing Classes for Hibernate Applications
  - Sample Class & Mapping File
  - Creating & Saving a New Entity
  - Locating & Updating an Existing Entity
  - Deleting an Entity
  - Executing an SQL Query
  - Programmatic Configuration
- ### MAPPING PERSISTENT CLASSES
- The Hibernate Mapping File, Entities and Values
  - Class Mappings, Properties
  - Derived & Generated Properties
  - Mapping Value Types, Key Generators
  - Compound Keys
  - Hibernate Types

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## .NET

### .NET (BASIC)

#### OVERVIEW OF THE .NET FRAMEWORK

- Getting started
- The Visual Studio .Net Development Environment
- Creating .Net Solutions and Projects
- Choices of projects, Managed code philosophy
- Intermediate Language (IL) & metadata, JIT Compiler

#### INTRODUCTION TO THE C# LANGUAGE THE

#### EVOLUTION OF C#

- OOP's in C#, Value and reference types
- Object Oriented Programming, What is Object?
- Encapsulation, Inheritance

- Abstraction, Polymorphism

#### DEFINING AND CALLING METHODS

- The Main method specification
- Passing arguments and returning values
- The scope and lifetime of variables
- Static vs. instance methods, Classes & Namespaces
- Properties, Assessors & Indexers
- Namespace & using Alias

#### EXCEPTION HANDLING

- What is Exception?
- Using try, catch & Finally
- Throwing Exceptions, User defined Exceptions
- Checked & Unchecked statements
- Boxing & Unboxing

#### ASSEMBLIES IN C#

- The DLL Component, Creating DLLs
- Working with DLLs, Assemblies

#### WORKING WITH FILES

- Files & Dir Class, File info & Dir info
- File Stream Object
- Stream Writer & Reader, Threading
- Reflection, Generics, Delegates

#### PROJECT ASSIGNING AND DISCUSSION

- ASP .Net Overview Differences between HTML Controls
- .Net Web Controls
- Creating Web user controls for ASP .Net
- Separation of code and HTML
- Using Visual Studio to Create Web Forms

#### WORKING WITH ASP .NET

- Introducing ASP .Net, Creating Web Forms
- Adding ASP .Net code to a Page
- Using Web Controls

#### STATE MANAGEMENT

- User and Applications, Cookies
- Session, Application, Caching

#### WEB & HTML CONTROLS COMPARED

- Using Input Validation controls

#### INTRODUCTION TO User control

#### SEPARATING CODE FROM CONTENT

- Advantages of Partitioning an ASP .Net Page
- Creating and using Code Behind Pages & .cs files

#### DATABASE ACCESS

#### INTRODUCTION TO ADO .NET

- Database connections & references
- Saving form data to a database
- The Repeater control for formatting database data
- The DataList control for creating menus

#### THE DATAGRID CONTROL: PAGING, SORTING & EDITING DATA

- Data Reader vs. Data Adapter, Datasets & XML
- Datasets vs. Data Views, Accessing Text Files
- Connecting to a Data Source, Accessing Data with Sets
- Complex Data Bound Control, Repeater Control
- DataList control, GridView manipulation
- Building the Data Layer
- Architecting a scalable Data layer
- Adapting data tables into business objects
- Writing and calling stored procedures
- Optimizing data performance with caching
- DataTable, DataRow, TableAdapter
- Working with ADO.NET low-level objects Connection
- Command, DataReader, Parameters, Transaction
- Returning custom business entities using generics
- Leveraging the using block and IDisposable

#### USING TRACE IN ASP .NET PAGES

- Overview to Tracing, Trace Information
- Page Level Trace & Application Level Trace

#### SECURITY

- Integrating ASP .NET security Authentication
- Authenticating anonymous Internet users
- Achieving role-based Web security
- Leveraging the membership API

#### WEB SERVICES

- Why Web Services?
- All about SOAP, Three steps to a Web Service
- Accessing a Web Services in any .Net Application

#### XML

- Learning XML Basics
- Ensuring Consistency of Data In XML
- Document, Rendering XML Documents
- Displaying Data with XSLT

#### UTILIZING LINQ IN A 3-LAYER ARCHITECTURE

- Creating object models with LINQ to SQL
- Working with LINQ in the data access layer
- Filtering sorting & aggregating with LINQ to Object

#### ENHANCING WEB FORM CONTROLS WITH AJAX

#### CONTROL EXTENDERS

- CalendarExtender, SliderExtender
- Always Visible Control Extender
- Auto Complete Extender
- Building a XAML presentation layer
- Designing a UI with XAML

#### TESTING & HOSTING PROJECT

## .NET

### .NET (ADVANCE)

#### OVERVIEW OF THE .NET FRAMEWORK

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- Choices of projects
- Managed code philosophy
- Intermediate Language (IL) and metadata
- JIT Compiler

#### INTRODUCTION TO THE C# LANGUAGE

- The evolution of C# 4.0
- OOP's in C#
- Value and reference types
- Object Oriented Programming
- What is Object?

- Encapsulation

- Inheritance

- Abstraction

- Polymorphism

#### DEFINING AND CALLING METHODS

- The Main method specification
- Passing arguments and returning values
- The scope and lifetime of variables
- Static vs. instance methods
- Classes and Namespaces
- Properties
- Assessors & Indexers
- Namespace and using Alias

#### EXCEPTION HANDLING

- What is Exception?
- Using try and catch
- Using Finally
- Throwing Exceptions
- User defined Exceptions
- Checked and Unchecked statements
- Boxing and Unboxing

#### ASSEMBLIES IN C#

- The DLL Component
- Creating DLLs

- Working with DLLs

- Assemblies

#### WORKING WITH FILES

- Files and Dir Class
- File info & Dir info
- File Stream Object
- Stream Writer
- Stream Reader
- Threading
- Reflection
- Generics
- Delegates

#### PROJECT ASSIGNING AND DISCUSSION

#### OVERVIEW OF LINQ

- Linq to Sql
- Partial class, extension method, lambda expression
- Restriction Operators
- Projection Operators
- Partitioning Operators
- Ordering Operators
- Grouping Operators
- Set Operators
- Conversion Operators
- Element Operators
- Aggregate Operators
- Join Operators

#### INTRODUCTION OF WCF

- Evaluation of WCF
- Architecture of WCF (SOA)
- Create WCF Service
- Consume WCF Service in UI
- Deployment of WCF Service

#### INTRODUCTION OF WPF

- Introduction of XAML
- Programming in XAML
- Layout container in XAML
- Data Binding with XAML
- Consume service via WCF
- Media Application in WPF
- Animation in WPF
- 3D Graphics in WPF

#### INTRODUCTION OF SILVERLIGHT

- Designing in Silverlight
- Binding in Silverlight
- Consume service via WCF
- Media Application in Silverlight
- Animation in Silverlight

#### TESTING & HOSTING PROJECT

- Windows Store App
- Window phone App



## PHP

### THE ORIGIN OF PHP

- How PHP works with the Web Server
- Hardware & Software requirements
- PHP script looks like
- Saving data for later
- Receiving user input, Repeating code

### HTML

- HTML basic tags, Form

### JAVASCRIPT

- Variable, Message Box
- Form Validation with Javascript

### BASIC PHP DEVELOPMENT

- How PHP scripts work
- Basic PHP syntax
- PHP data types
- Displaying type information
- Testing for a specific data type
- Changing type with Set type
- Operators, Variable manipulation
- Dynamic variables
- String in PHP

### ARRAYS/STRING

- Single-Dimensional & Multidimensional Arrays
- Getting the size of an array & Examining arrays
- Array function, Sorting arrays, string functions

### FUNCTIONS

- What is function, Defining a function
- Returning value from function
- User-define & Dynamic function calls Variable scope
- Accessing variable with the global statement
- Function calls with the static statement
- Setting default values for arguments

### WORKING WITH FORMS

- Forms, Super global variables
- The server array
- A script to acquire user & importing user input
- Accessing user input
- Combine HTML & PHP code
- Using hidden fields
- Redirecting the user

### WORKING WITH DATABASE

- Mysql Introduction
- Mysql Insert, Delete, Update
- Mysql Order By, Group By
- Join, Having, Key attributes

### DATABASE ACCESS WITH PHP

- Connecting & Creating a database query
- Displaying, Inserting, Deleting, updating data
- Closing database connections, searching

### COOKIES AND SESSION MANAGEMENT

- How cookies & Sessions work
- Controlling a Session
- Using a Named Session
- Cleaning up after a Session

### ACCESSING FILES AND DIRECTORIES

- Opening, Reading Writing & Closing files
- Reading directory contents

### UPLOADING/DOWNLOADING FILES

- How uploading works
- Configuring PHP for uploading
- Modifying Forms to allow uploading
- Error codes for file uploads
- Security considerations

### CLASSES AND OBJECTS

- CRUD operations through OOPS

### ERROR HANDLING AND DEBUGGING

- Sources of errors, how errors are output
- PHP error codes, working with errors
- Php.ini settings for Error handling
- Debugging techniques

### PHP ADD-ON

- JQuery
- AJAX Techniques, JSON

### INTRODUCTION TO JOOMLA

- Content Management System Overview

### SETTING UP A JOOMLA SITE

- Installing Joomla
- Downloading the Joomla
- CMS, Extracting the Joomla
- Files, Adding a New Article
- Editing the Main Menu
- Removing Modules
- Unpublishing Whole Menus
- Changing the Frontpage Logo Graphic

### ADDING CONTENT

- Joomla! Sections & Categories
- Deleting Sample Articles
- Categories & Sections
- Adding New Categories & Sections

### ADMINISTERING JOOMLA

- Presentation Administration
- Template Manager, Language Manager
- Article Manager, Section Managers
- Category Managers, Frontpage Manager
- Media Manager, Trash Manager
- Global Configuration Manager
- User, Menu, Extension, Module Manager
- Plugin Manager

### JOOMLA EXTENSIONS

- The Difference Between Modules
- Components & Plug-Ins
- Plug-Ins: The Most Advanced Extensions
- Components & Modules

### SITE COMPONENTS (JOOMLA COMPONENTS)

### INTRODUCTION TO FRAMEWORK

## ANDROID

### THE ANDROID OPERATING SYSTEM

- Version of Android
- Application APK file
- Process Architecture
- The Role of Java
- Operating System Services
- ANDROID DEVELOPMENT
- Android SDK, SDK
- AVD Manager
- Configuring the Emulator
- Eclipse
- Resources
- APK files
- Assets
- DDMS, ADB Command Shell
- Log Cat

### APPLICATIONS

- Activity Life Cycle
- On Create Method
- Layout and Views
- Toast and Web Kit
- Intent and Results
- Custom Application Classes

### USER INTERFACE DESIGN

- XML Layouts
- Layout Parameters
- Layout inflater
- View and Adapters
- Form Widgets
- Working with lists
- Adapter View
- Simple Cursor Adapter
- Array Adapter
- List View
- Spinner
- Handling Item Selecting
- Custom Adapter
- Menu
- Option Menu
- Context Menu, Pop UP Menu
- Local Storage
- SQLite Database
- Environment Variables

### SERVICES

- Bounded & Unbounded Services
- Asynchronous Task
- Multimedia
- Playing Sounds, Gallery
- Invoking the Camera
- Location Services and Maps
- Location Service
- Google Map, API
- Overlays
- Animation

## RED HAT LINUX

### RED HAT ENTERPRISE LINUX SERVER 7

- Introduction to Red Hat Enterprise Linux
- Installation of Red Hat Enterprise Linux
- Get Started with GNOME Graphical Desktop
- Get Help in a Graphical Environment
- Manage Physical Storage with Disk Utility Gnome Based
- Monitor System Resources
- Get Started with Linux bash Shell
- Vi & Vim advance Text editor
- Users and Groups Management
- Secure Linux File Access (Permissions)
- Introduction to basic Shell Scripts
- Input/Output Redirection with Pipeline
- Using the Graphical & Text Base Configuration Tools
- Manage Networking and Printing using Configuration Tools
- Scheduling Process (Crontab) & Archiving Tools
- Introduction Linux File System and creating
- Mount & umount with acl
- Control the Linux Boot Process
- Package Management (Installing & Removing package via RPM, YUM Server)
- Accessing Drivers & Exploring H/W Devices
- Monitoring Processes & Resources
- Configure System Log Report
- Managing User Accounts
- System Authentication with Network User Accounts with LDAP
- Disk Management (Creating and Resizing LVM, SWAP & Disk Quota)
- Introduction to Linux Installer - Anaconda
- Configure Hostname and hosts
- Nameserver Resolution
- Configure Network based Installation
- Basic Introduction to Red Hat Virtualization
- Managing Firewall & SELinux
- Linux Server (NFS, SAMB, FTP, HTTP, NTP DHCP etc) Configuration
- System Recovery Techniques

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