.NET Advance Package Syllabus

Module 1: Introduction to .Net

Lecture 1: About US:

- About SiSTech
- About your self
- Describe training methodology

Lecture 2:

What is .Net?
Application developed in .Net
Application development Architecture
.Net framework

- .Net base classes
- User and program interface
- Common language runtime

Hardware requirement
Software requirement

Lecture 3: Introduction to VS 2010 Installation of IIS
Installation of VS 2010 Installation of sqlserver2008

MODULE-2: Introduction to ASP.Net

Lecture 1: What is Asp.net Feature of Asp.Net
Advantage
Elements of ASP.Net Page
Asp.net execution model

Lecture 2:

Demo of asp.net page using notepad & IIS Demo of asp.net page using VS 2010
Understanding ASP.Net Project files Page object & Directives

Lecture 3: HTML

Lecture 4: CSS

Lecture 5: Introduction to Java Script

Project Training

Selection of project title

Understanding SDLC

Software Models used

Project file delivery with Synopsis

Implementing SDLC on your project

Objectives

Users of system

Functional Requirement

Non Functional Requirement

Modules

DFD

User interface & Valodatins

Tables & Constrains

ER Diagram

Reports

Object Oriented Diagrams (If any)

Development / Coding

Security

Testing

Live Implementation

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MODULE-3 ASP.Net Controls (Standard**,** validation control & Custom Controls)

Lecture 1: Creating Layout using Master Page
Label, Text box, button, Hidden Field, image button, link button, and hyper link.
Lecture 2: Checkbox, Checkbox List, Radio Button, Radio Button List, Dropdown list, List Box.
Lecture 3: Multi View, View, Panel, Calendar, File Upload.
Lecture 4: Required Field Validator, Compare validator, Range validator.
Lecture 5: Regular Expression validator, Custom Validator, Validation summary.
Lecture 6: creating Custom Controls

MODULE-4 ASP.Net Objects

Lecture 1: Response Object.
Lecture 2: Request Object.
Lecture 3: Server Object.
Lecture 4: Application Object.
Lecture 5: Cookies Object.
Lecture 6: Session Object.
Lecture 7: Sending Email and SMS

MODULE-5 ADO.Net

Lecture 1: Ado.net intro, component, architecture
Lecture 2: create database, create table, insert, update, delete, select, drop, truncate
Backup and restore, export in ms access, attach/detach (.mdf/.ldf).
Lecture 3: database controls- Grid view, Form view
Lecture 4: Details view, combination of grid view & form view/details view
Lecture 5: insert, update, delete, and select normal coding on form.
Lecture 6: Stored Procedure intro & Example.
Lecture 7: Insert with Stored Procedure, Auto generates Serial Number, Runtime Grid view.
Lecture 8: Login with simple and Stored Procedure.
Lecture 9: Login control and login with session, Log out.
Lecture 10: Update, change Password, Forget password & block unblock user

MODULE-6: XML

Lecture 1: intro and syntax of xml, login xml.
Lecture 2: Add, modify, delete in xml and show data in grid view.

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Module 7: JQUERY

Module 7: AJAX

Module 8: Introduction to Web Services

Module 9: Introduction to MVC

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SiS Tech™

Module 10 : Windows Application Development

Module 11: WPF

Module 12 : WCF

Module 13: Crystal Reports or RDLC Reports

Module 7 : C#.Net Language

Lecture 1:

- Introduction of C# language.
- Feature of C#.
- Capabilities of C#.
- Program Structure of C# and description..
- How to run and compile C# program.
- First program example.

Lecture 2: C# Fundamental

- Litrarles/Constatnts.
- Variables/Identifier.
- Keywords.
- Operator

Lecture 3:

- Statements **(**if-else, switch case, while, do while,for, for each**).**
- Input from Keyboard & Conversion
- Programming Practice 1
- Function **(**static fun, Recursion, Ref, out parameter**)**
- Programming Practice 2
- Unsafe code & Pointer.
- Preprocessor Directive.
- Programming practice 3

Lecture 4: String & String Builder

Lecture 5 : Regular Expression

Lecture 6: Arrays : Single Dimension Arrays

Lecture 7 : Arrays: Double Dimension Arrays

Lecture 8 : Collections : Vector, ArrayList,Stack, Queue, Hash Table, Sorted List
Lecture 9: Object oriented Programming

- Classes & Object.

Lecture 10:

- Access Specifier.
- Constructors
- Programming Practice 4

Lecture 11: Polymorphism

Introduction
How to achieve polymorphism
Method overloading
Operator overloading
Lecture 12: Inheritance :

Introduction & Example
Overriding, abstract class & method, virtual function, Sealed Classes & Method
Lecture 13: Interface

- Introduction.
- Syntax.
- Implementation with example.
- Interface can be inherited.
- Explicit interface.

Lecture 14: Properties

- Introduction.
- Syntax.
- Example.
- Properties with different access specifier.
- Properties restriction.

Lecture 15: Indexer

- Introduction.
- Syntax.
- Example.
- Indexer can be overloaded with example.

Lecture 16: Structure

- Introduction.
- Example & syntax.
- Different of class and structure with example

Enumeration information

Lecture 17:Enumeration declaration,Ititilaization &examples

Lecture 18 & 19: Delegates

- Introduction.
- Declaration.
- Implementation with example.
- Multicast delegate.

Lecture 20 & 21: Exception handling

- Type of error.
- Try and catch.
- Finally block.
- Throw statements.
- Users define exception.

Lecture 23 & 24: File handling

- Introduction.
- File information getting example.
- Stream Reader/Writer class with example.
- Binary Reader Writer class with example.
- Directory information class with example.

- File stream class with example.

Lecture 25 & 26: Multithreading

- Threading model.
- Serialization of thread.
- Synchronization of thread.
- Threading process.

Lecture 27: Assemblies

- Introduction to assemblies.
- Dll hell problem.
- Assembly creation.
- Assembling and versioning.

Lecture 28: Reflection

Lecture 29 & 30: LINQ

- Language integrated query.
- Linq syntax
- LINQ to SQL.
- LINQ to Dataset.
- LINQ to XML

Lecture 31 & 32 : Introduction to C# Socket Programming