JAVA & MVC

To learn the complete Java development candidate must know the prior knowledge of Basic Object oriented programming. Logic and decision making of code.

Duration – 40 / 45 Working Sessions

CHAPTER -1

- Introduction of programming languages
- Need of Java
- Role of Compiler
- Features of Java
- Role of JVM
- How to install Java
- IDE – Eclipse Installation
- Overview of Eclipse

CHAPTER -2

- Basic programming structure of Java
- How to write main function in Java
- Naming Conventions of Java
- How to print and read data in Java

CHAPTER -3

- How to create class in Java
- Features of OOP in JAVA
- Inheritance | Types of Inheritance of Java | Super keyword
- Project on inheritance of Java
- Abstract class & Interface
- Project on Interface
- Constructors
- Use of this keyword

CHAPTER -4

- String DataType
- String Class
- Built in functions of strings – Operations on Strings
- String Buffer | String Builder class
- StringTokenizer class

CHAPTER -5

- Exception & Error handling
- Introduction of built-in exception classes
- Try .. catch Block
- Neasted Try..catch
- Exception handling with method overload
- Customized Exception handling
- Use of throw and throws keyword
- Use of Final | Finally | Finalize (Garbage Collector in Java)

CHAPTER -6

- Threads in Java
- Definition | Use | Application of Thread
- How to implement thread in Java

JAVA & MVC

- Thread as Class
- Thread as Interface
- Thread as Instance
- Synchronization Problem of Thread
- Thread Synchronization using synchronized keyword
- Thread Synchronization using synchronized Blocked
- InterThread Communication
- Thread Priority
- Daemon Thread

CHAPTER-7
- File Handling in Java
- Operations on File
- Understanding of FileInputStream |BufferedInputStream | File Reader class
- Understanding of FileOutputStream | BufferedOutputStream | FileWriter class
- Understanding of Data Input |Data output Stream class

CHAPTER-8
- Serialization & Deserialization process
- Encryption & Decryption Algorithm Implementation Technique

CHAPTER-9
- Collection Framework
- Classes of Collection framework
- ArrayList | LinkedList | PriorityQueue
- HashSet | LinkedHashSet | TreeSet
- HashMap | LinkedHashMap | TreeMap
- Iterator | ListIterator

CHAPTER -10
- Basics of Networking
- URL | SOCKET | IP Address | Port No
- Use URL class
- Use of URLConnection class
- Use of HttpURLConnection class
- Socket programming

CHAPTER -11
- Introduction JDBC
- Introduction of DBMS
- Installation of MySQL Server
- Basic SQL commands of MySQL
- How to Integrate MySQL and Eclipse IDE
- Class use in JDBC – Statement | Prepared Statement | Result Set | Connection | Driver manager
- How to perform CRUD operation on DBMS using Java

WEB APPLICATION OF JAVA – ADVANCE JAVA
CHAPTER-12
- Introduction of Web application in Java
- Basic Need of Server client applications

JAVA & MVC

• Overcome of AWT	APPLET	SWING
• Requirement of Web Application Creation
• Introduction of Server
• Installation of Server (ApacheTomcat)
• Integration of Server in Eclipse

CHAPTER-13

• Introduction of Servlet
• LifeCycle of Servlet
• Generic |Http Servlet
• Builtin function of Servlet
• Doget()	Dopost()
• HttpservletRequest |HttpServletResponse
• setcontentType()	SendRedirect()

CHAPTER-14

• Folder Hierarchy of Enterprise Edition of Eclipse
• How add Basic servlet

CHAPTER-15

• Web Application using Servlet
• Use of web.xml file

CHAPTER-16

• Web Application using Customized Html template designs
• Built Servlet project using HTML Designs

CHAPTER-17

• Web Application integrate with JDBC
• Perform CRUD operations of WEB application

CHAPTER-18

• Deployment of Project
• Introduction of Hosting
• Introduction of Cpanel |WHM
• Creation of .WAR file
• How to deploy .WAR file and access project through other client or other mobile devices

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