Course Content for Advanced Java

Total Duration = ~50 Hours with 2 Options
a. **5 Week Days 2 Hours/Day = 5 Weeks**
b. **Saturdays/ Sundays 3 Hours/Day = 6 Weeks**

1. **Collection Framework**

    •   Collection Interface List, Sets

    •   Sorted Set

    •   Collection Classes

    •   Linked list

    •   Array list

    •   Vectors

    •   Hash set

    •   Tree set

    •   Using Iterators and Enumerations

2. **Web Development Basic**

    •   HTML/CSS

    •   jQuery

    •   AngularJS

3. **Servlet**

    •   Introduction

    •   Life cycle of servlet

    •   Types of servlet

    •   Servlet in Eclipse

4. **Introduction to JSP**

    •   Components of JSP – Directives, Tags, Scripting Elements

    •   Building An Application

    •   JSP in Eclipse

5. **Java Beans**

    •   What is bean

    •   Java Beans in JSP using Eclipse

6. **MVC**

    •   Model 1 and Model 2 Architecture

    •   MVC

- Implementing MVC Own way in Eclipse

7. **Hibernate**
   - Introduction to HB
   - A HB Application
   - HB in Eclipse

8. **Spring**
   - Overview of DI, IoC and Factory Patterns
   - Introduction to Spring
   - Setting up Environment
   - Basic Examples
   - Spring with ORM Framework
   - Spring in Eclipse

9. **Mini Project**

   A project with 5 pages