

Java Immersion Training

Session Overview

Schedule

Core Java Session:

Week 1 - Developing OO Applications with Java for Procedural Developers

Basic Object-Oriented concepts, terms, and thinking in Objects, we will also be exploring the Immersion Project problem, and learning the Developers Toolbox (Integrated Development Environment (IDE), Web Server, Database Server, etc.)

Week 2 - Java Basic Programming

Introduction to the Java language, test driven development, and a look at organizing Java projects. We will also be creating and testing the core classes for the Immersion Project.

Week 3 - Database Programming with Java

This week covers Java Persistence, keeping data around for later use. We will start with basic Database access using JDBC (Java Database Access), we will then add explore Java Persistence API (JPA). We will be designing, coding and testing the database access layer of the Immersion Project

Week 4 - Collaborative Java Mentoring

This is week of coding and testing. The Instructor will provide assignments and examples, but what to work on and how to design the Immersion Project solution will be at the Student's discretion. The Instructor will provide guidance and feedback and offer code samples throughout the week.

(Break)

There will be an exercise provided in the break to reinforce the Core Session concepts

Web Technologies Session

Week 5 - Developing Java Web Applications

This week introduces Web Application written in Java. Topics include how Web Browsers and Web Servers communicate, the role of HTML, JavaScript and CSS, and session management. This week will also see the design of the Immersion Project web interface. Included in this week will be the basics of JSP (Java Server pages) and Tag Libraries.

Week 6 - JSF Programming/Ajax Overview

This week continues web concepts by extending basic JSPs into JSFs (Java Server Faces). Our exploration of JSFs will include interactive event handling, dynamic content, and security management. Next we will explore Ajax (Asynchronous JavaScript and XML) and XML as a means of adding new content to a web page without submitting a form.

Week 7 - Collaborative Java Mentoring

This is another week of coding and testing. The Instructor will continue to provide assignments and examples, but what to work on and how to design the Immersion Project solution will be again at the Student's discretion. The focus of the week is completing the Immersion Project. The Instructor will provide guidance and feedback and offer code samples throughout the week. This week cumulates with the Java Immersion Graduation.