DEVELOPING JAVA WEB APPLICATIONS

Course number : 100

Overview

In this training course, you acquire the experience needed to implement high-performing, scalable, and secure transactional web-based applications, as well as gain an in-depth understanding of how to integrate JPA and EJB with modern web technologies, and how Java Enterprise Edition (Java EE) offers a simple and comprehensive approach to building state-of-the-art enterprise applications.

What you'll learn

- Build robust, data-driven web applications by integrating key components of Java EE
- Create dynamic, session-managed, data-driven web applications with servlets
- Build dynamic web page views with JSP
- Implement the MVC design pattern for Java web applications
- Configure listeners to initialize web sessions and applications

Who should attend

Pre-requis

- Three to six months of Java programming experience
- You should have:
    - An understanding of Java classes and the inheritance model
    - The ability to use standard Java APIs

Recommended Experience:

- Familiarity with intranet/internet development technologies, such as HTML, HTTP, and TCP/IP

Outline

Web application development

- The requirements of a web application
- Components of an n-tier architecture

Getting started with servlets

- Integrating servlets into the web application architecture
- Configuring the servlet development environment
- Avoiding common servlet pitfalls

Utilizing the Java Servlet API

- Servlet life cycle methods
- Accessing servlet environment variables

Creating web-based forms for user input

- Adding text fields and drop-down lists
- Retrieving form data in the servlet

Extending servlets with Java Database Connectivity

- Connecting to the database
- Submitting SQL statements
- Retrieving and processing data

Formatting database results

- Constructing an HTML table
- Adding drill-down features

Writing cookies to personalize web content

- Retrieving cookies from a client request
- Sending cookies to the client
- Circumventing cookie limitations

Managing application state with sessions

- Creating a unique session for each user

- Storing and retrieving Java objects within sessions
- Controlling a session's life span
- Creating application and session event listeners
- Implementing a shopping cart

Key components of Java EE for web development

- Servlets
- JSP
- XML

JSP fundamentals

- Using JSP scriptlets, expressions and declarations
- Communicating with the client using built-in JSPserver objects
- Leveraging the JSP 2 Expression Language (EL)

State management with JSP

- Accessing cookies and sessions
- Storing common application data

Integrating JSP and JavaBeans

- Promoting object reuse
- Separating application logic from the presentation

Calling JSP from servlets

- Forwarding Java objects to JSP
- Using JavaBeans to transfer data
- Servlet and JSP design patterns

Leveraging the Tag Extension mechanism

- The role of JSP custom tags
- Applying the JSP Standard Tag Library (JSTL)

Developing custom tags

- Creating custom tags with JSP 2 tag files
- Customizing tag behavior with attributes

JSF framework overview

- Identifying the JSF core components
- Managing application flow using JSF navigation model

Building JSF components

- Developing back beans
- Creating views with JSF custom tags

Schedule

Location	Dates	Status	
Montreal	Mar 01, 2023 - Mar 01, 2023 00:00 AM - 00:00 AM	Available	Register Now >>
Cotonou	Jan 01, 2018 - Jan 07, 2018 08:00 AM - 05:00 PM	Available	Register Now >>

Tuition

IN CLASSROOM OR ONLINE PRIVATE TEAM TRAINING

STANDARD   **$2990**

Contact Us »

GOVERNMENT $2990

FAQ

Certification

Enterprise architecture

Cyber Security

Networking & Wireless

Business Analysis

IT Service Management

Data Center

Consulting

Project Management

Java Programming