

Developing Applications for the Java EE 7 Platform Ed 1

Duration: 40 Hours (5 Days)

Overview

The "Developing Applications for the Java EE 7 Platform Ed 1" course offers comprehensive training for developers on how to build robust back-end solutions using Java EE 7 technologies. Learners will gain hands-on experience through lessons that cover key components of the platform. Module 1 introduces Java EE, setting the stage for the course. Module 2 focuses on Managing persistence with JPA entities. Module 3 dives into Implementing business logic with EJBs, while Module 4 teaches the use of the Java Message Service API for reliable communication. SOAP-based web services using JAX-WS are covered in Module 5. Module 6 and Module 7 revolve around Web application creation using servlets and JSPs, respectively. Module 8 introduces RESTful services with JAX-RS. Module 9 explores Real-time communication with WebSockets, while Module 10 concentrates on JavaServer Faces (JSF) for building UIs. Lastly, Module 11 ensures learners understand how to Secure Java EE applications. This course is essential for developers looking to enhance their Java EE skills and build scalable enterprise applications.

Audience Profile

The course covers Java EE 7 platform development, targeting professionals seeking to enhance their enterprise Java skills.

- Java Developers
- Software Engineers with prior Java SE experience
- Application Developers
- Web Developers
- Backend Developers
- Systems Architects
- IT Consultants specializing in Java technology
- Technical Project Managers overseeing Java projects

Course Syllabus

Introduction to Java EE

- Managing Persistence by Using JPA Entities
- Implementing Business Logic by Using EJBs
- Using Java Message Service API
- Implementing SOAP Services by Using JAX-WS
- Creating Java Web Applications by Using Servlets
- Creating Java Web Applications by Using JSPs
- Implementing REST Services using JAX-RS API
- Creating Java Applications with WebSockets
- Develop Web Applications Using JavaServer Faces
- Securing Java EE Applications

Appendixes/Additional Content

- Java Logging

- CDI Beans
- BeanValidation and JPA API
- Batch and Concurrency APIs
- JAXB API
- "Pre-CDI" Servlet Examples