



J2EE

خلاصه :

This course offers an extensive hands-on training of developing enterprise J2EE applications on various application server platforms.

Upon completion of this course, you will be able to create distributed J2EE applications using standard APIs in J2EE world.

مدت دوره: ۵۰ ساعت

پیش نیاز: Fundamentals of the Java Programming Language

اهداف دوره: در انتهای این دوره دانشجویان قادر خواهند بود:

During this course, we develop many little programs and a complete working J2EE application from ground up. The development process starts on gathering requirements and ends in successfully deploying the application on server.

Development process will be done in a step by step way using Test-Driven-Development (TDD) practices.

The instructor leads the team in this hands-on practice and points the pitfalls and anti-patterns of developing a J2EE application in the real world.

Upon completion of this course you will be able to:

- Explain the key technologies in J2EE and how they work together.
- Implement client and server programs for different network protocols such as HTTP.
- Understand the role of Servlets in J2EE and write your own Servlets.
- Develop web layer of your applications using JSP, standard tags and JSF components.
- Implement data access layer using pure JDBC, patterns like Data Access Object (DAO) and also JPA.
- Develop a sophisticated business layer using EJB 3.0 technology.
- Integrate multiple sub systems using RMI, web services and messaging capabilities of J2EE.
- Understand the broad range of security facilities in J2EE and how to integrate them in applications.

1. Introduction
2. Java Network programming
3. Servlets
4. JSP & Expression language
5. Custom tags & JSTL
6. JDBC and DAO pattern
7. JNDI: Java Naming and Directory Interface
8. JSF: Java Server Faces
9. Other JSF components, JavaMail and JAXP
10. Introduction to EJB 3.0 & Glassfish
11. JPA: Java Persistence API
12. RMI: Remote Method Invocation
13. Web services with JAX-RPC, SAAJ & JAX-WS
14. JMS: Java Message Service
15. Security in J2EE