



Java Platform, Enterprise Edition (Java EE)

From Yes-M Systems LLC

Length: Approx 3 weeks/30 hours

Audience: Students with experience in Java SE programming

Student Location – To students from around the world

Delivery Method: Instructor-Led – Live online Training

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A. Course Summary

About this Course:

This 30+ hour/3 week course is designed to give students a solid knowledge in the architecture and concepts of Java EE Programming, Java web & business application development. Each concept will be discussed using interactive class notes along with relevant built-in examples/applications. This course is taught by experienced instructors with 10+ years of development and training experience.

This course will allow the students to understand various Java EE concepts including:

- (i) Learning Java EE Architecture
- (ii) Java web application development
- (iii) Learning Web Core Technologies: Servlets and JSP
- (iv) Java Data Base Connectivity (JDBC) Architecture
- (v) Business Component Development
- (vi) Learn how to use IDE for Java EE application development
- (vii) Use Eclipse Indigo 3.7.1 for Java EE Developers
- (viii) Exposure to lots and lots of working examples/applications
- (ix) Learn how to build and deploy Java Enterprise Applications through hands-on work

AT COURSE COMPLETION

You would be able to develop data driven, distributed, multi tiered Java enterprise business application using web and business components.

B. Contact us for more details:

Company name: Yes-M Systems

Website: <http://myyesm.com>,

Phone numbers (USA): 678-643-7777, 678-248-0302

Phone number (India): 91-8220006968

Kudzu Reviews: <http://www.kudzu.com/m/Yes-M-Systems-30363491/reviews/>

Facebook: <http://www.facebook.com/yesmsystems>

Youtube: <http://www.youtube.com/yesmsystems>

C. Java Platform, Enterprise Edition (Java EE) Course Details

1. Introduction to Java EE Platform Architecture & APIs

- 1.1 Java EE Platform Overview
- 1.2 Java EE Platform - Distributed Multi Tiered Applications
- 1.3 Java EE – Web & Business Components
- 1.4 Java EE Containers – services & types
- 1.5 Java EE Application Assembly & Deployment - Packaging Applications, Java EE modules
- 1.6 Getting Started with Web Applications
- 1.7 Model View Controller (MVC)2 Architecture & Packaging EJB Module

2. Java EE Web Tier

- 2.1 Getting Started with Web Applications
- 2.2 Configuring Web Applications - Web application deployment descriptor
- 2.3 Web Application Life Cycle & Development
- 2.4 Packaging and deploying web applications, Ant build tool

3. Web Component Development with Servlet & JSP

3.1 SERVLETS

3.1.1 Servlet Overview

3.1.1.1 Life cycle of Servlet & Servlet Container

3.1.1.2 Handling Client HTTP Request & Server HTTP Response

3.1.1.3 Practical (Hands-on Working Examples)

3.1.1.4 Exploring web.xml

3.1.1.5 Initializing a Servlet

3.1.2 Using Scope Objects

3.1.3 Accessing Web Context - ServletContext initialization Parameters:

3.1.4 ServletContext Attributes (Context binder)

3.1.5 Practical (Hands-on Working Examples)

3.1.6 Request Dispatcher (Forward,Include) & Redirecting (sendRedirect)

3.1.6.1 Transferring Control to Another Web Component

3.1.6.2 Including Other Resources in the Response

3.1.6.3 Redirecting (sendRedirect) to another Web Resource

3.1.7 Session Management, Request Dispatcher & Redirecting

3.1.7.1 Practical (Hands-on Working Examples)

3.1.8 Configuring Web Applications using Annotations

3.2 JSP

- 3.2.1 Introduction to JSP
- 3.2.2 JSP Architecture, API & life cycle
- 3.2.3 JSP Scripting Elements
 - 3.2.3.1 Practical (Hands-on Examples)
- 3.2.4 JSP Directives, JSP Expression Language (EL)
- 3.2.5 JSP Implicit Objects & Standard JSP Tags
 - 3.2.5.1 Practical (Hands-on Working Examples)
- 3.2.6 JSTL

4. JDBC

- 4.1 JDBC Overview & Architecture
- 4.2 Step By Step Usage of JDBC API
- 4.3 Connecting to MySQL/Oracle 10g XE Database in Java
 - 4.3.1 Practical (Hands-on Working Examples)
- 4.4 Prepared Statement & JDBC Transactions
 - 4.4.1 Practical (Hands-on Working Examples)
- 4.5 Developing Web Applications with Oracle 10g XE /MySQL Database by implementing Java Beans, DAO's & MVC2 Architecture

5. Business Component Development with EJB Technology

- 5.1 Enterprise Java Beans (EJB 3.0)
 - 5.1.1 EJB Technology overview
 - 5.1.2 Introducing EJB 3.0
 - 5.1.3 EJB Container, Types of Beans
 - 5.1.4 Introduction to Java Naming and Directory Services (JNDI), Defining Client Access with Interfaces
 - 5.1.5 Creating a simple EJB3 Module using Session Beans
 - 5.1.6 Creating the Enterprise Application Project
 - 5.1.7 EJB 3.0 Persistence Programming Model – Introduction to Java Persistence API
 - 5.1.8 Object-Relational Mapping , JPA Annotations, Entity Classes, Managing Entities,
 - 5.1.9 Accessing Entities in the Persistence Context, The EntityManager API, The Persistence Context,
 - 5.1.10 Entity Life Cycle , Creating Queries
 - 5.1.11 Java Persistence API Reference

5.1.12 Designing a EJB application using Entity Bean & Session Bean

5.1.13 Developing EJB3 Module using Stateless, Stateful Session Beans & Entity Beans. And creating an Enterprise Application Project using Eclipse Indigo 3.7.1 + JBOSS 7.1.0 + MySQL 5.5

6. Developing Web Services using Java Technology

6.1 Introduction to Web Services

6.2 Building Web Services with JAX-WS About Session Beans

6.3 Building RESTful Web Services with JAX-RS

Disclaimer: Yes-M Systems and/or their instructors reserve the right to make any changes to the syllabus as deemed necessary to best fulfil the course objectives. Students registered for this course will be made aware of any changes in a timely fashion using reasonable means.

D. About Yes-M Systems:

- a. Established in 2005 (Atlanta, GA, USA), 10th year in business.
- b. A+ accreditation from US Better Business Bureau
(<http://www.bbb.org/atlanta/business-reviews/internet-consultants/yes-m-systems-in-duluth-ga-27431372>)
- c. Received the “Best of 2012” and “Best of 2013” awards from US-based Kudzu (<http://www.kudzu.com/m/Yes-M-Systems-30363491/reviews/>)
- d. Trained close to 3000+ students from all over the world.
- e. Experienced, passionate and committed trainers
- f. IT Training in various technologies including Java, Dot Net, SAP, Oracle, QA, BA etc (See Courses We offer section for more information)
- g. Professional guidance/help with resumes and interview preparations.
- h. Recruiter help with marketing/jobs
- i. Certification at the end of the training.

E. Courses we offer:

A. QA and BA courses:

- QA [Quality Assurance or QA Testing]
- BA [Business Analysis or Business Analyst]
- QA and BA as a single course (Integrated QA+BA) at a reduced fee.
- Advanced/specialization courses:
 - a. 60-hour Selenium course with Core Java
 - b. ETL Testing
 - c. Advanced Mobile Testing
 - d. Advanced QTP
 - e. Any combination of a, b, c, d.
- Certification QA
 - a. QTP
 - b. ISTQB
 - c. Quality Center
- Healthcare and Finance specialization
 - a. Healthcare as a Domain Class
 - b. Healthcare BA [Business Analyst with specialization in Healthcare]
 - c. Healthcare QA [Business Analyst with specialization in Healthcare]
 - d. Healthcare QA [Quality Assurance or QA Testing]
 - e. Business analyst with Finance specialization.
 - f. Quality Assurance with Finance specialization

B. Java courses:

- a. Core Java
- b. Advanced Java
- B. Combination of Core Java and Advanced Java

C. Healthcare and Finance specialization

- a. Healthcare as a Domain Class
- g. Healthcare BA [Business Analyst with specialization in Healthcare]
- h. Healthcare QA [Business Analyst with specialization in Healthcare]

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- i. Healthcare QA [Quality Assurance or QA Testing]
 - j. Business analyst with Finance specialization.
 - k. Quality Assurance with Finance specialization
- D. Microsoft Courses:
- d. Dot Net
 - e. Microsoft Business Intelligence [MS BI]
 - f. Sharepoint
 - g. MS SQL Server
- E. SAP Courses:
- a. SAP FICO
 - b. SAP MM
 - c. SAP HR
 - d. SAP BO
 - e. SAP BI
 - f. SAP HANA
- F. Oracle Courses:
- a. Oracle Financial
 - b. Oracle DBA
 - c. PL/SQL
- G. Other Courses:
- a. Hadoop
 - b. Hadoop with Java
 - c. Salesforce
 - d. Project Management (PMP)
 - e. Maximo
 - f. Tableau
 - g. Informatica
 - h. Cognos