

JAVA EE COURSE

CURRICULUM OF JAVA EE



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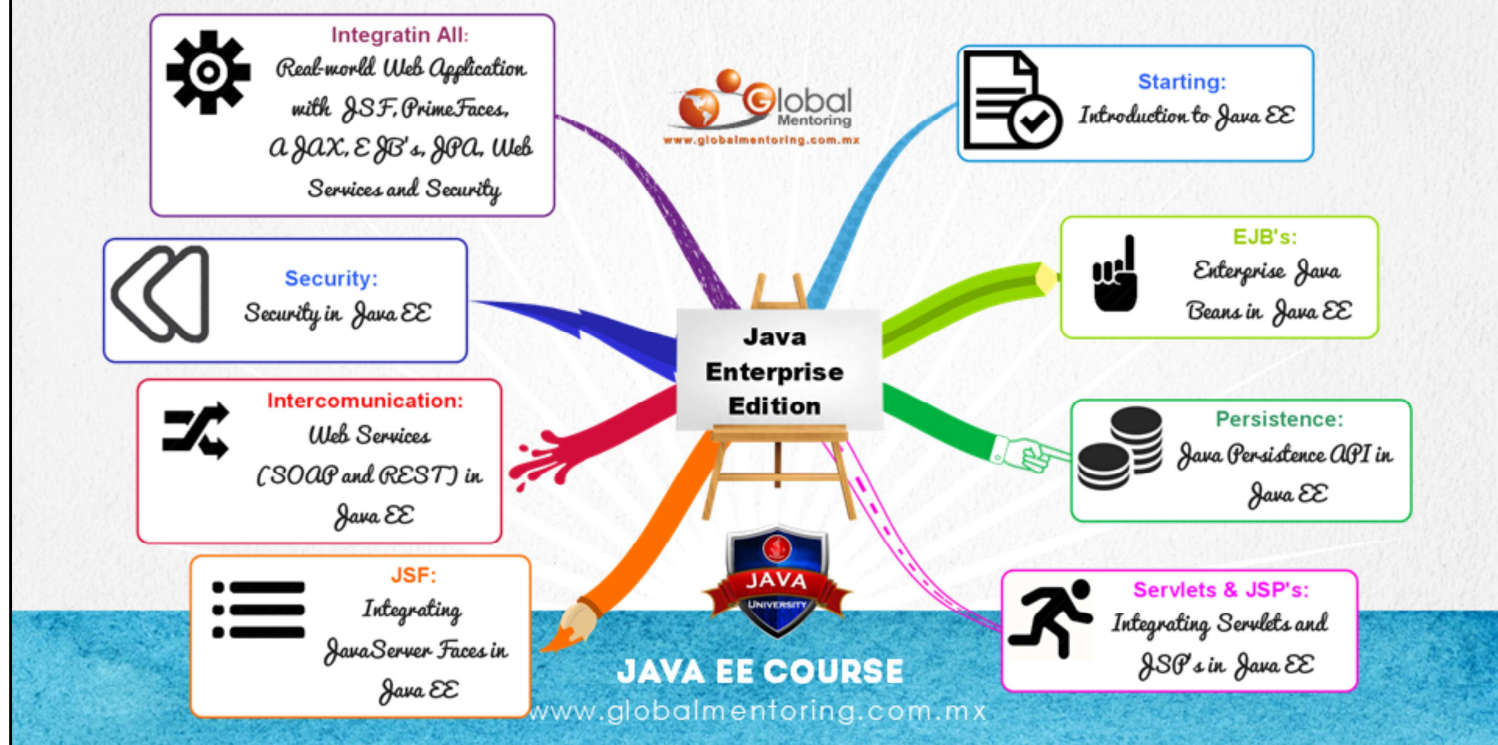
JAVA EE COURSE
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Hello, I hope you're ready to begin.

Let's review the general agenda of the JAVA EE COURSE.

Are you ready? Let's go!

CURRICULUM OF JAVA EE COURSE



We are going to review the general content of the Java Enterprise Edition course (Java EE):

Starting.- Introduction to Java EE: In this section we will study an introduction to Java Enterprise technology - Java EE. We will see what is a business application, what is Java EE and several of the APIs that comprise it. We will look at the history of Java business versions, from the time J2EE was named to the current evolution, and we will mention the architecture with which we will work throughout the course. We will also carry out the installation of the tools that we will use throughout the course and we will create a first HelloWorld project with Java EE.

EJB's.- Enterprise Java Beans: In this section we will review what are the Enterprise Java Beans (EJB's), we will see the characteristics of the EJB's, the configuration and the types of EJB's that exist in Java EE. We will also review the way to communicate with an EJB by creating a Java client. Likewise, we will review the differences between EJB and EJB Lite, since it is possible to deploy the EJBs in web servers or servers of complete Java applications. We will do several exercises to put these concepts into practice.

Persistence.- Java Persistence API (JPA): We will review the Java Persistence API concept in Java EE. We will study the characteristics of JPA and the role they fulfill within a Java EE architecture. We will see the concept of Entity classes and the concept of Entity Manager and Persistence Unit. We will create several exercises to put these issues into practice.

Servlets and JSP's.- Integration with Servlets and JSP's: In this section we will analyze the integration of Servlet technology and JSP's with Java EE. We will see how to use EJB's within Servlets and we will apply the MVC design pattern to implement this integration of business technologies.

JSF.- Integration with JSF: In this section we will study an integration of technologies between JSF and Java EE. The JSF layer will be extended with the PrimeFaces API, which is one of the most used JSF extensions to date. We will create an exercise with a 3-layer architecture and implement the integration between JSF + PrimeFaces (presentation layer) + EJB's (business layer) + JPA (data layer).

Intercommunication.- Web Services (SOAP and REST): We will see the topic of Web Services in Java EE. There are different ways to create web services with Java EE, such as SOAP Web Services (JAX-WS API) and REST Web Services (JAX-RS API). We will see how to create Web Services with these API's and also the clients of these Web Services. We will do several exercises to put these concepts into practice.

Security.- Security in Java EE: We will review the security topic in Java EE. We add security to both our Web interface, and EJB's and Web Services. In addition to validating each of the clients to pass the security established by the services. We will create several exercises to put these concepts into practice.

Integrating Everything.- Creation of Real World Web Application with JSF + PrimeFaces + AJAX + EJB's + JPA + Web Services and Security: We will create an application which will integrate everything seen in the course, from basic topics to more advanced topics. Java EE This application will have a 3-layer architecture, and we will perfectly define the role of each technology in this practical application, which will serve as the basis for your own Java Web and Java EE applications using technologies such as JSF with PrimeFaces including AJAX, EJB's and their clients, Web Services and its customers, and all adding security in our Java EE application.

Broadly speaking this is the general agenda of the Java EE course. These are just some of the many more topics we will learn throughout this course. So if you're ready, let's start immediately.

ONLINE COURSE

JAVA ENTERPRISE EDITION

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JAVA EE COURSE

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At Global Mentoring, we promote the passion for Java Technology. We invite you to visit our website where you will find Java Online courses from Basic, Intermediate and Advanced Levels, and thus become an expert Java programmer.

Here we present our online courses:

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|----------------------------|---------------------------------------|
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| ✓ Java Programming | ✓ Hibernate Framework & JPA |
| ✓ Java with JDBC | ✓ Spring Framework |
| ✓ HTML, CSS and JavaScript | ✓ JavaServer Faces |
| ✓ Servlets and JSP's | ✓ JAVA EE (EJB, JPA and Web Services) |

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