

JAVASERVER FACES COURSE

CURRICULUM OF JAVASERVER FACES



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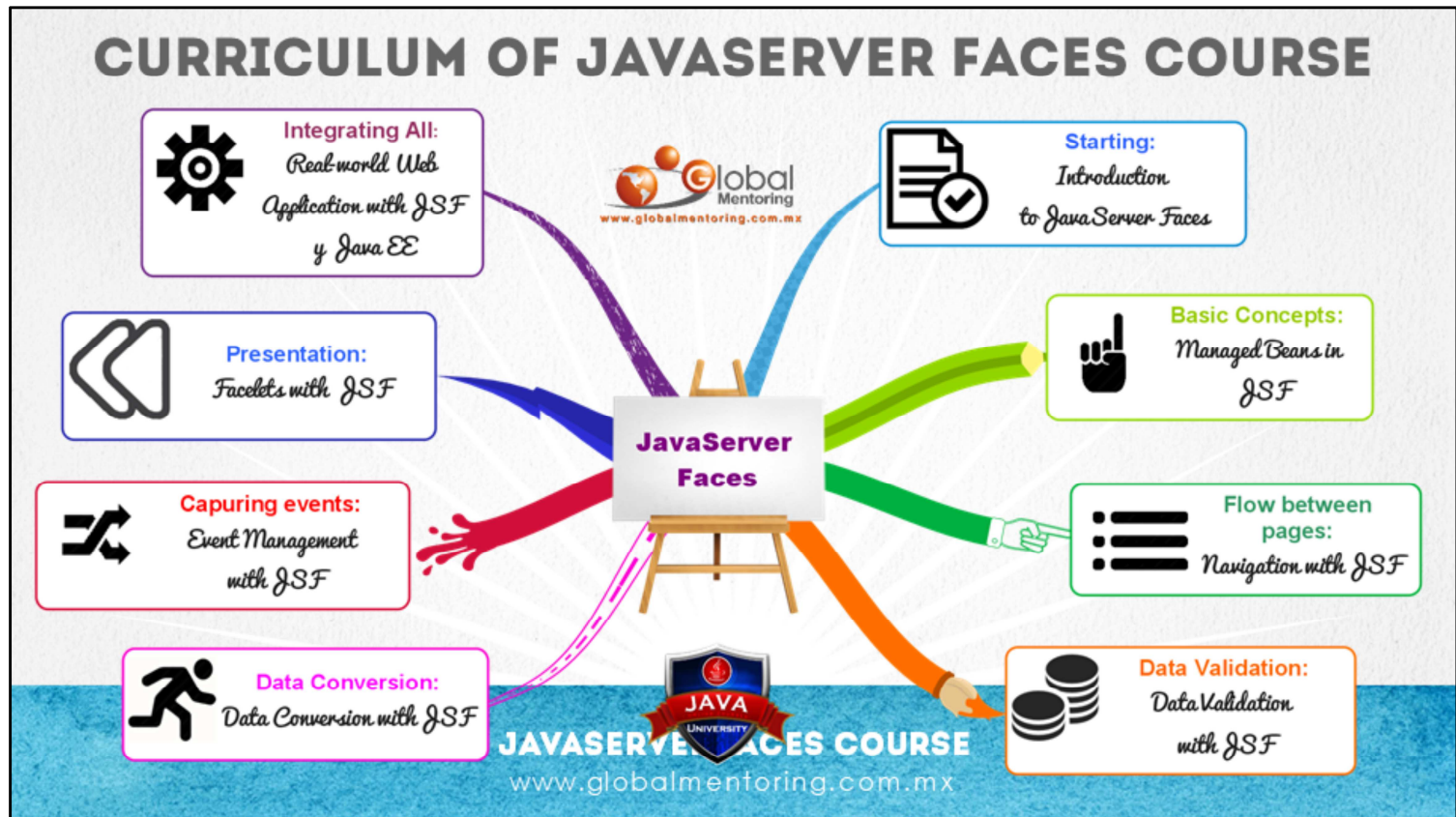
JAVASERVER FACES COURSE

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Hello, I hope you're ready to begin.

Let's review the general agenda of the JAVASERVER FACES COURSE.

Are you ready? Let's go!



We are going to review the general content of the JavaServer Faces (JSF) course:

Getting Started.- Introduction to JavaServer Faces: In this section we will study an introduction to JavaServer Faces technology. We will review what is Java Server Faces ?, we will also study the characteristics of this technology. We will see a 3-layer architecture and the role of JSF in this Java architecture. We will see how JSF implements the MVC (Model View Controller) design pattern. We will also carry out the installation of the tools that we will use throughout the course and we will create a first HolaMundo project with JSF.

Basic Concepts.- Managed Beans in JSF: In this section we will review the concept of ManagedBeans in JSF, also the Scope (Scopes) of the Managed Beans in JSF, both using the JSF standard, and the Java EE standard using the concept of CDI (Context and Dependency Injection). We will also see how to inject ManagedBeans dependencies with the JSF standard, such as using the standard in Java EE. Likewise, we will study the concept of Expression Language (EL) in JSF, and how to apply it to our JSF pages. We will review the faces-config.xml file that is the JSF configuration file and we will do several exercises to implement the Managed Beans concept in JSF.

Flow between pages.- Navigation with JSF: We will review the concept of Navigation or Flow between JSF pages and how it is implemented in JSF. We will review how to define this concept explicitly (static navigation) using the faces-config.xml file and implicitly (dynamic navigation) which is the form we will use most often.

Validation of Data.- Validations in JSF: In this section we will study the Validation issue when sending information to the server using the JSF forms. There are the standard validations, validations in the methods of the Managed Beans and personalized validations. We will carry out an exercise to put this concept of validators into practice in JSF.

Conversion of Data.- Conversions in JSF: In this section we will analyze the concept of conversions in JSF. The converters cover the need to assign and convert values between the JSF pages and the attributes of the Managed Beans automatically. We will study the implicit and explicit converters, as well as the custom converters and we will create an exercise to implement the converters in JSF.

Capturing Events.- Management of Events in JSF: We will see the topic of Event Management in JSF. This concept allows us to capture events when there are changes in the JSF pages (view) and execute a method in the Managed Beans. There are different types of events that we can detect, one of them is the ValueChangeListener and another ActionListener. We will do several exercises to put these concepts into practice.

Presentation.- Facelets in JSF: We will review the technology of the Facelets in JSF. We will see the characteristics of this technology and why they are the standard today instead of the JPS's. We will also see the concept of templates using Facelets and create an exercise to put this concept into practice.

Integrating Everything.- Real World Web Application with JSF and Java EE: We will create a Web application using JSF and integrating it with Java EE by deploying it in a Java application server. This application will have a 3-layer architecture, and we will define perfectly the role of each technology in this practical application. JSF in the presentation layer, integrating it with EJB's in the business layer, and integrating it with JPA in the data layer. This application will serve as the basis for your own Java Web and Java EE applications.

Broadly speaking, this is the general agenda of the JavaServer Faces 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

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

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