

## HIBERNATE & JPA COURSE

# WEB APPLICATION WITH HIBERNATE Y JPA



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Hello, Ubaldo Acosta greets you again. I hope you're ready to start with this lesson.

We are going to review how to integrate Hibernate and JPA with a Web application using Servlets and JSPs.

Are you ready? Come on!

## WEB APPLICATION WITH HIBERNATE AND JPA

- Create a Web application using JSP's and Servlets.
- Use the MVC design pattern for the presentation layer.
- Reuse the code created from the data layer to manage the catalog of the people table.
- The application must handle the list of people.
- Note: A very simple Service layer will be created, with the objective of separating the layers of our architecture according to the following figure.

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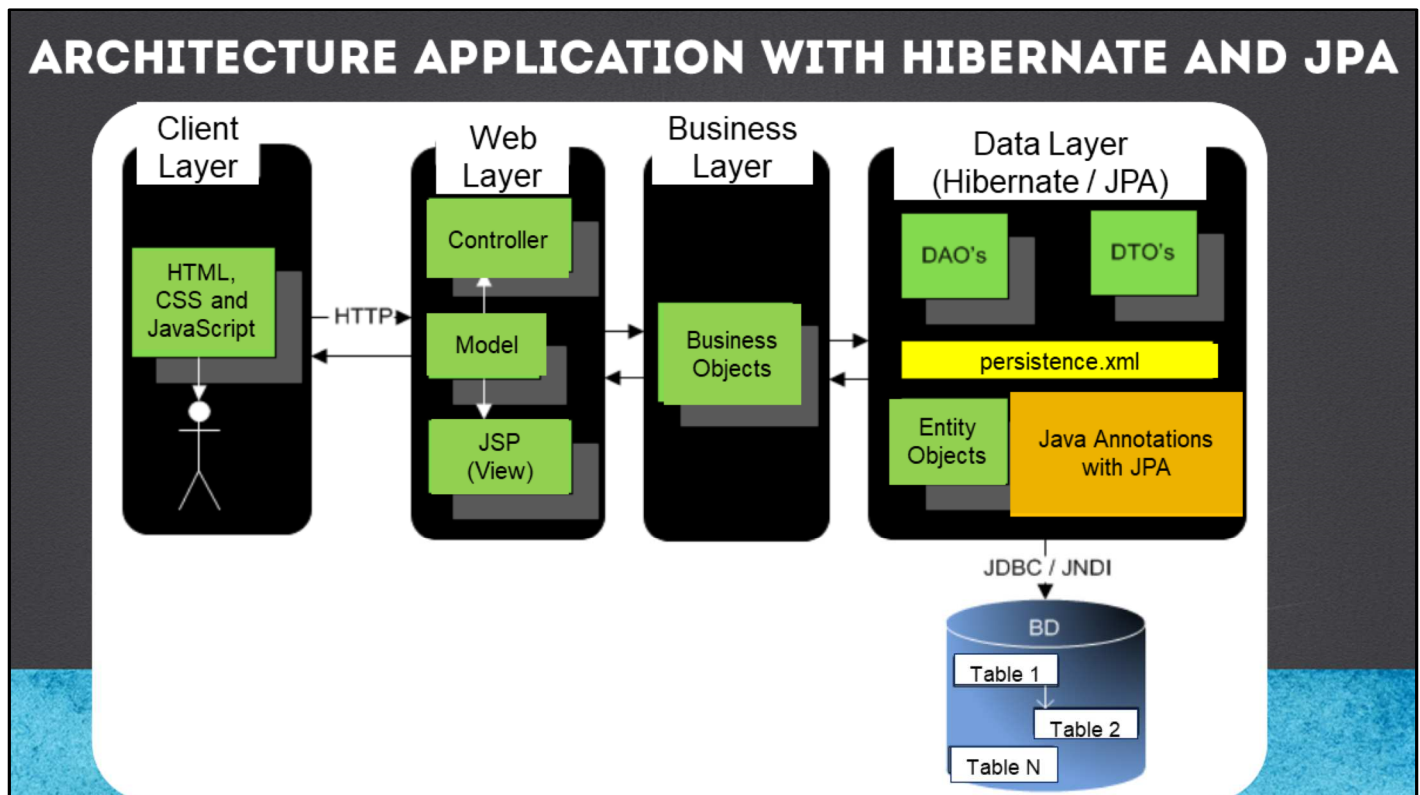
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We are going to create a web application called PersonasWeb.

In this application we will use JSPs and Servlets, in addition we will use the design pattern MVC (Model-View-Controller) in our presentation layer, which we studied in the course of Servlets and JPS's.

We will also reuse the code created in the data layer in the exercise created above.

The objective is to show the list of people stored in the database, as an extra note we are going to create a very simple service layer with the objective of separating the layers of our architecture according to the following figure.



We can observe our architecture of the PeopleWeb application. On the one hand we have the client layer which will handle the HTML, CSS and JavaScript code. Later we have our Web layer in which we have our controller Servlet and the JSPs. We also have our model classes, in this case it will be the list of Persona objects.

We will also create a class that will manage the business layer and finally we will reuse the Hibernate data layer that we created in the previous project.

In this exercise we are only using a database table, in this case the person table, so we have an entity object and we have the DAO (Data Access Object) class of the Person class.

We are going to use our entity object as if it were our DTO (Data Transfer Object) object, because we are going to reuse that same object in our presentation layer and in our business layer. Sometimes the difference between our entity objects and our DTO objects can be complexity, because entity objects focus precisely on saving to a database table and sometimes DTO objects can manage more than one object. entity.

Because in this case the exercise is very simple, entity object we will use as our DTO object and in our Web layer we will use the list of objects of type Person that we have acquired through our business layer, and the business layer will be communicated through the PersonDAO object of the data layer to the database always supported by the Person entity object. We are going to review the necessary code to create this web application.



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