JavaBean JavaBean

View (HTML/JSP) ----🡪 Controller (Servlet) ---🡪 Service -------🡪Dao ------🡪Resource 🡪 Database

Index.jsp

Include : signIn.jsp

signIn.jsp

login page : with method get

LoginController

doGet method

receive the value from form.

Create the bean class object

Set the value

Create the service class object and pass the bean class object to service layer.

In service layer we will check condition then we will call dao layer.

Dao layer using jdbc. We check the login details form database.

If present then we returned boolean value true or false.

In Service layer base upon result it return success or failure message.

In Controller layer base upon message it will move to home page or include same page.

hyperlink to signUp.jsp

In this example. At this point of time. View and Controller no problem. Because view is jsp and controller is servlet. The object creation of Servlet and jsp is taken care by web container.

In this application we have to improve model layer, JavaBean, Service layer, dao layer and resource layer.

To improve the model layer EJB came in picture.

View 🡪 HTML/JSP

Controller 🡪 Servlet

Model layer 🡪 EJB

Types of EJB

1. Session bean
2. Entity bean or JPA
3. Message driven bean

Framework :

Struts : Struts is a open source web framework which internally follow MVC architecture. Struts is known as Controller centric framework. (Apache company)

JSF : Java Server Faces : JSF is part of oracle which internally follow MVC architecture. JSF is known as View Centric Framework.

Hibernate : JPA is a specification and it is a type of EJB. Hibernate is a implementation of JPA. Hibernate is a framework and JPA is a technologies (Java Persistence API).

JPA OR Hibernate is use to improve DAO layer.

Spring : spring is light weighted open source layer architecture framework. It is also known as onion architecture framework.

Spring Modules

1. Spring core
2. Spring context
3. Spring web
4. Spring MVC : which internally follow MVC architecture framework. Spring MVC is known as Model Centric framework.
5. Spring REST : RestFull Web Service
6. Spring DAO : Data Access Object
7. Spring ORM : Object Relation Mapping (Hibernate or JPA)
8. Spring AOP : Aspect Oriented Programing
9. Spring security
10. Spring boot
11. Spring cloud
12. Spring micro service
13. Spring integration

Etc