**Course 2 - Backend and Database Development**

**JSP life cycle**

Whenever we run jsp page on server. JSP internally convert JSP to servlet. This phase is known as page translation.

JSP life cycle methods

1. \_jspInit
2. \_jspService
3. \_jspDestroy

Limitation of JSP

1. Performance wise JSP is slower than Servlet.
2. JSP not a secure. Don’t write business logic or jdbc or database logic in JSP page.
3. In JSP page we can include or forward whole JSP page we can’t include part of web page. But if we write the logic in Java class inside a method we can call those methods again and again. So in JSP we can’t do re-usability of the code.

In JSP 🡪 We write presentation logic with dynamic code. We can use html for static content and JSP for dynamic contents.

In Servlet 🡪 we use business logic as well as database logic.

LoginApp

Login.jsp --🡪 Success.jsp --🡪Failure.jsp-🡪SignUp.jsp -🡪 View or Presentation logic.

SignUp -🡪Servlet

doPost -🡪 Receive the value from SignUp.jsp page with help to request.getParameter(), we can write some business logic to covert the password in different format. write database logic using JDBC and store the information in database.

SignIn-🡪Servlet

doPost 🡪 Receive the value from login.jsp page with help to request.getParameter(), we can write some business logic to covert the password in different format. write database logic using JDBC and to check the emailid and password is correct or not.

These normal classes.

LoginService

Which contains business logic

LoginDao

Which contains jdbc logic or database logic.

Data Access Object

Difference between JSP Action include Vs JSP directive Include

**MVC: Model View Controller**

View -🡪 Presentation logic ie using jsp as well as html.

Controller 🡪Servlet : intermediate between view and model layer

Model -🡪 normal classes

JavaBean class 🡪 which must be map with table.

Service class 🡪 which contains business logic

Dao class -🡪 which contains pure database logic using jdbc

Resource 🡪this class provide database connection.