**Assignment: Role-Based Dashboard in JSP**

Create a JSP-based web application that provides a dynamic dashboard where the menu options are generated based on the role of the user. The system should support three roles: **Faculty**, **HOD (Head of Department)**, and **Student**. The **HOD** role will inherit all functionalities of the **Faculty** role and have additional privileges.

**Requirements:**

**Tables**: (users, roles, menu\_items, etc. ), HOD inherits Faculty's functionalities, meaning the **HOD** will have all faculty-related menu items plus some additional ones.

**Role Definitions**:

* **Faculty**: Can access "View Assignments", "Upload Grades".
* **HOD**: Has access to everything the Faculty has (i.e., "View Assignments", "Upload Grades"), and in addition, "Manage Faculty", "View all section record e.g. attendance and marks".
* **Student**: Can access "View Assignments", "View Attendance".

**Session Management**:

* Maintain user session after successful login.
* If a user tries to access the dashboard without logging in, they should be redirected to the login page.

**Logout Functionality**:

* Include a logout option on the dashboard that ends the session and redirects the user to the login page.

**Set Up the JSP Pages**:

* login.jsp: A form for users to input their username and password.
* dashboard.jsp: A page that fetches and displays the appropriate menu based on the role of the logged-in user.
* logout.jsp: A page that ends the session.
* Add Additional pages based on your understanding.

**Back-End Logic**:

* Implement Java Servlets for handling login (LoginServlet.java) and fetching the dynamic menu based on the user’s role.
* Use JDBC to connect to the database and fetch role-based menu items.