

3 tier architecture -----

Browser ----- Web Server(tomcat) -----DB Server

<http://localhost:8080/APP/login.jsp> ----->WEBserver -----> [JSP ==>SERVLET]

(html gen by servlet)<-----

DAO , DO/POJO -----

DAO = Data Access Object !!!

DO = Data object ,POJO = Plain Old Java Object !!!

DAO = those classes that have DB access code (connectivity , query fire, resultset processing)

DO/POJO = classes that represent the table structure --- we can fetch each row in the DO/POJO object

JSP ----->DAO ---->DO

Ex1 ---- Demo of using DAO and DO for Book table

Ask the user to enter a bookid -----> DAO select the book with the ID and return a DO

JSP will print the contents of the DO

request	Response
Url to Book Details.jsp	Show the html that can accept the book id along with submit button
Add the book id click submit action to same JSP	The query gets fired and the html that can accept book id + the details of the book id entered are shown

Ex 2 -----

[check_palindrome DAO project](#)

request	Response
Url to get a table all books allbooks.jp	Show the html that has html table showing all book table rows

allbooks.jsp ----->DAO ----->List of POJO

Request Dispatcher = servlet chaining - forwarding a request from one servlet to another servlet !!

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The syntax for Similar chaining in JSP uses forward and include JSP-ACTION !!!!

Ex 3 -----

One. Jsp = Ask the user to enter the name
Submit -----> action = checkPalindrome.jsp

checkPalindrome.jsp

Checks if name is a palindrome ? IF yes forward to Welcome.jsp that prints

Welcome username to Palindrome club

If not forward to One.jsp with a message that this name is not a palindrome try again

request-response cycle number	Request	Response
1	Url for one.jsp	Show html with a textfield and button
2	Add a name and click the submit - action- check_palindrome.jsp	If palindrome then Welcome username to Palindrome club (forward to welcome.jsp)
		Else show html with textfield and button + to try again (forward to one.jsp)

Http Session Management through JSP ----

Ex ----

number	Request	Response
1	URL = shop.jsp	Show the html with a dropdownlist of products and a add-to-cart button
2	User enters the item Clicks submit button add to cart , action = on same jsp	The item selected is added to users session Show the earlier drop-down, button + list of items in cart
	The above cycle can be repeated many times	

Additional ---

Show login page - if success show shop.jsp

If user clicks make bill button ----- save the items purchased in DB for this date
and User

Show a logout link (in the logout.jsp scriptlet session.invalidate())

