



- ① one order item means one product
- ② but user create another order with this product means another order item

1. product. { product class  
 productDAO  
 productListServlet  
 listproduct.jsp ← display all product.  
 web.xml.  
 ( add servlet.jar/mysql...jar/jstl.jar )

① class product { int id { get id  
set id  
 package bean string name { get name  
 set name  
 float price { get price  
 set price

② product DAO  
 package dao

( provide data query  
 and connection between  
 mysql and product )  
 select \* from product (display all product)

③ productListServlet  
 package servlet

( use productDAO to find product  
 and use listproduct.jsp to show )

2. user {  
    user class  
    userDAO  
    login.jsp  
    userLoginServlet  
    listproduct.jsp

before shopping, let the user login at first,  
cause every order need to know that belong  
to who.

① userDAO

select \* from user  
where uname = ? and upassword = ?

use user name / password to search in table user  
if find out means password is correct.

② login.jsp in xml (connect /login and  
LoginServlet)

③ userLoginServlet

get name / password from login.jsp

check use UserDAO().getUser(name, password)

if use == null means incorrect password  
login again  
else go shopping

3. orderitem (don't need to create a table, still in session)

- 1) We can treat purchase action is to create orderitem one by one
- 2) We try to display shopping cart means display these orderitems in a list.
- 3) at this stage, orderitem kept in session until the order is finally generated and stored in database

{ orderitem class  
productDAO  
orderItemAddServlet  
orderItemListViewlet  
listOrderItem.jsp  
orderItemDeleteServlet }

① orderitem class

```
{ private int id; (not pid)
  private product product;
  private int num;
```

② productDAO

1) product getProduct(int id)

select \* from product where id = "?"

2) List<product> ListProduct.

on web page, when we shopping and the submission to the server is PID, so we need this function to return the accurate product

③ orderitemAddServlet

① got pid / num of the product (want to buy)

② use id to get the object of product

③ use information from ①②, set a new orderitem object.

④ save these orderitems in a (Array)list in session

... product in the

✱ (if this orderitem already exist in ArrayList, just modify it's number)  
(if not add at the end of the list)

⑤ jump to page listorderitem

④ orderItemListServlet

data has been saved and already prepare  
in session, just jump to page ✓ .jsp is  
enough.

⑤ listOrderitem.jsp

⑥ orderItemDeleteServlet

#### 4. order

1) in orderItemList.jsp page create a link means create order

2) create order will update the data in session to sql table