Phase 2

Day 2

11 Dec 2023

Creating Product Management System App to store, delete, update and retrieve project details from JDBC using Standard layer architecture application.

Create database mydb_phase2

create table product(pid int primary key,pname varchar(10), price float);

maven tool : it is build tool. Using build tool we can compile, we can run, we can create jar, war or ear file, we can download external dependencies ie jar file base upon our requirement.

Maven project command project structure in all IDE

In Database table	Java
Table	JavaBean
Product	Product
Map	
PName,PName,Price	pid,pname,price variable with setter and getter method

DAO : Data Access Object : it is normal class which can contains more than one method with pure jdbc logic.

EmployeeDao

ProductDao

CustomerDao

AccountDao

Service layer : This layer or package which contains more than one service class each service class contains more than one service method which help to write pure business logic.

But if we write business logic and database logic in one class if in future if we want to do any changes in service layer it will effect database logic and vice-versa.

EmployeeService

ProductService

ManagerService

Service layer and dao layer not responsible to interact with input device.

don’t create scanner class object in service layer and dao layer.

Now we will create resource layer which provide database connection

Product

Pid (pk) pname, price

Orders

Oid(pk) auto_increment pid(FK), datetime, price (qty-1)

```
create table orders(oid int primary key auto_increment, pid int, orderdate
                                    datetime, totalprice float,foreign key(pid)
                                    references product(pid));

insert into orders(pid,orderdate,totalprice) values(10,sysdate(),45000);

 select p.pname,o.orderdate from product p, orders o where p.pid = o.pid;
                                    equi join

select p.pname,o.orderdate from product p inner join orders o on p.pid = o.pid;
                                    inner join
```