

Mobile Application.

- 1) Src.
- 2) Resources
- 3) test
- 4) JRE System Library
- 5) Referenced Libraries.
- 6) lib.

- Src.
- 1) Bean.
 - 2) Dao
 - 3) Exception.
 - 4) pi
 - 5) Sevice.
 - 6) util.
- entities = classes

- Bean.
- 1) Mobile Bean Class
 - private variables.
 - Default Constructor.
 - parameterized Constructor.
 - getters and setters.
 - toString method.

Now private variables names.

int → mobileId, name, price, quantity ← string

- 2) Purchase Details ~~class~~ Bean Class
- Define above things

Now private variables names

int → purchaseId, name, mailId, phoneNo,
 int → purDate, mobileId.
 ↑ ↑
 LocalDate int

Dao.

- A) Two Interfaces
- B) Two classes.
- C) Two query mapper Interfaces.

1) Interface IMobileDAO

- a) boolean updateMobile (int mobileId, int quantity)
- b) List < MobileBean > viewAll ()
- c) List < MobileBean > search (float minPrice, float maxPrice)
- d) int getQuantity (int mobileId)

All above methods throws MobilePurchase Exception

2) Interface IPurchaseDetailsDAO

- a) boolean insertPurchase (PurchaseDetailsBean purchaseDetailsBean)
- b) boolean deletePurchaseDetails (int mobileId)

All above methods throws MobilePurchase Exception

NOTE: In above two interfaces make all arguments final.

Exception.

class MobilePurchaseException extends Exception

- 1) Default Constructor. → Source → String
- 2) Parameterised Constructor (String message)

```
{ super(message); }
```
- 3) SerialVersionUID = ... → Source → Super

DAO

ctrl
 (1) change name. → exception
 (2) ctrl + shift + O. (1) throwable

- 3). Class MobileDAOImpl implements IMobileDAO
add → Interface → inherit
(a). ~~Constructer~~ abstract
public boolean updateMobile (int mobileId,
int quantity) throws MobilePurchaseException.

Ex) \rightarrow Put records = 0;

2) \rightarrow boolean is Updated = false;

3) → try (Connection connMobile

```
= DBConnection.getInstance().  
getConnection();
```

Prepared Statement Prepared Statement

= conn.Mobile * preparedStatement

(Query Mapper Mobile • UPDATE_MOBILE);

4) → \int preparedStatement.setString(1, Integer.
toString(quantity))

```
preparedStatement.setInt(2, mobileId);
```


5) → records = preparedStatement.executeUpdate();

6) → if (records > 0)
 {
 isUpdated = true;
 }

7) → }

8) → catch (SQLException sqlEx)
 {
 throw new MobilePurchaseException
 (sqlEx.getMessage());
 }

9) → return isUpdated;

10) → }

(b) Similarly for deleteMobile (int MobileId)

(c) List < MobileBean > viewAll () throws
 MobilePurchaseException

1) → List < MobileBean > mobileList = new
 ArrayList < MobileBean > ();

2) try { (.....);

 ResultSet rsMobiles = preparedStatement
 .executeQuery();

3) → {

4) → while (rsMobiles.next())

{

5) → MobileBean mobile = new MobileBean();

5) mobile.setMobileId(rsMobiles.getInt("mobileId"));

6) Similarly, for name, price, Quantity.

7) → mobileList.add(mobile);

8) → }

9) → if (mobileList.size() == 0)

{ throw new MobilePurchaseException
("No records found");

}

10) → }

11) → catch (...)

{ ...
}

12) → return mobileList;

13) → }

(d). List<MobileBean> search (float minPrice,
float maxPrice) ...

~~And~~ Similar.

{ preparedStatement.setFloat(1, minPrice);

while (...)

{ mobile.setPrice(rsMobiles.getFloat
("price"));

}

```

(c). int getQuantity (int MobileId)...
{
    int mobileQty = 0;
    try (...);
    {
        ...
        if (rsMobiles.next())
        {
            mobileQty = Integer.parseInt
                (rsMobiles.getString ("quantity"));
        }
    }
    catch (...)
    {
        ...;
    }
    return mobileQty;
}
}

```

4) ^{ELIAS} Purchase DetailsDAOImpl Implements IPurchaseDetailsDAO

```
{
a) > boolean ResetPurchase (...)
```

```
{
    int records = 0;
```

```
    boolean Registered = false;
```

```
    long (... (BuyerHopper PurchaseDetails.  
        INSERT_PURCHASE);  
    )
```

```
{
    java.sql.Date purchaseDate
```

```
= new Date (new java.util.Date().  
    getTime());
```

```
preparedStatement . setString (1,
```

```
purchaseDetailsBean . getName());
```

```
preparedStatement . setDate (2, purchaseDate);
```

```
b) -> boolean deletePurchaseDetails (int productId)
```

5) Interface BuyerHopperMobile

2 public static final String UPDATE_MOBILES
 0.7 = 66 UPDATE mobiles SET quantity = ?
 WHERE mobileId = ?";

b) →
 c) →
 d) →
 e) →

6) Interface Q.M.PD

INSERT - PURCHASE
 = 66 INSERT INTO purchase details
 VALUES (purchaseId - sequence.NEXTVAL,
 ?, ?, ?, ?, ?)

Service

2) Interface Mobile

1 viewAll()

deleteMobile (int mobileId)
 search (float minPrice, float maxPrice)

2) Interface IServicePurchaseMobile

1 insertPurchaseDetails

add → interface
 insert → abstract

c) ServiceMobileImpl implements IServiceMobile

2
a) → MobileDAO mobileDAO;

b) → public ServiceImpl() {

2 mobileDAO = new MobileDAOImpl();

}

c) → list < MobileBean > viewAll() throws
MobilePurchaseException

{ list < MobileBean > mobileList = mobileDAO

viewAll();

return mobileList;

d) → boolean deleteMobile (int mobileID)

throws ...

{ IPurchaseDetailsDAO purchaseDetailsDAO — ⑤
= new PurchaseDetailsDAOImpl();

boolean isPurchaseDeleted = purchaseDetailsDAO
deletePurchaseDetails (mobileID); — ⑥

boolean isDeleted = mobileDAO.deleteMobile
(mobileID);

return ("11");

3
e) → list search ...

4). Search PurchaseImpl findPurchase ...

for mobileQuantity = 0;

boolean isItRequested = false;

boolean isUpdated = false;

(20):

(e):

mobileQuantity = mobileDAO.getQuantity

(purchaseDetailsBean.getMobileId());

if (mobileQuantity > 0)

{ isItRequested = purchaseDetailsDAO.

searchPurchase (purchaseDetailsBean);

mobileQuantity--;

isUpdated = mobileDAO.updateMobile

(purchaseDetailsBean.getMobileId(), mobileQuantity);

return (isUpdated & isUpdated);

Name

Phone

Mail

MobileId.

Packages

- ✓ 1. Beam Package
 - (A) create class \rightarrow MobileBeam
 - (B) shall on database table i.e. mobileBeam...
 - (C) write parameters depending which data given in database table.
 - (d) then create one default and one parameterised constructor.
 - (E) then create getters and setters.
 - (F) \rightarrow these are created by clicking on source then select appropriate functions.
2. B. Create class PurchaseDetails.
Repeat all steps above..
3. The Package
 1. Create Eclipse Package PurchaseDetails.DM
 2. Check what Parameters we required through question statement.
 3. Create another Interface for mobile.
 4. Check parameters should be used.
 5. Create another Interface for Mopper Query for Purchase
4. Make variables final. (Mopper Query)
 1. Create another Interface for mobile
 2. In Mopper Query Interface we write

Literatures

2nd ed

1. Create project:

2. Create packages. (see)

3. ~~Copy literature~~ ~~from source~~ application

4. Now click right click on project -> go to Resources and text -> create new source folder.

5. Inside resources copy files from source application.

6. Now create lib folder (File folder)

7. Now copy files from lib folder of source application to lib folder to mobile.

8. Now build path of these files which copied to lib folder.

9. After building path in new folder created named reference literature.

10. Now copy all folders from database change username & password (idric).

11. Now Packages.

12. utils Package source (replace names)

13. copy file from

lib & preferences

14. Export packages

15. Export Package

16. extends exception

17. add serial

18. constructor