International institute of professional studies DAVV Indore

Clothing Store and Management System

M.tech (IT) - 5 years

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System Design & Development

Database Design:

An important aspect of system design is the design of data storage structure. To begin with a logical model of data structure is developed first. A database is a container object which contains tables, queries, reports and data validation policies enforcement rules or contraints etc. A logical data often represented as a records are kept in different tables after reducing anomalies and redundancies. The goodness of data base design lies in the table structure and its relationship. This software project maintains a database named Library which contains the following tables.

Table Design:

The database of Library System contains 5 tables. The tables are normalized to minimize the redundancies of data and enforcing the validation rules of the organization. Most of the tables are designed to store master records. The tables and their structure are given below.

Table: Sign_Up

Column Name	Type	Size
User_No (Primary key)	Integer	10
First_Name	Varchar	30
Last_Name	Varchar	30
Email (Unique)	Varchar	30
Password	Varchar	30
Usertype	Varchar	30

Table: bill_items

Column Name	Type	Size
Item_code (Primary Key)	Integer	10
Type	Varchar	20
BrandName	Varchar	30
Item_name	Varchar	40
Price	Integer	10

Table: mens_wear

Column Name	Type	Size
Item_code (Primary Key)	Integer	10
Type	Varchar	20
BrandName	Varchar	30
Item_name	Varchar	40
Price	Integer	10

Table: women_wear

Column Name	Type	Size
Item_code (Primary Key)	Integer	10
Type	Varchar	20
BrandName	Varchar	30
Item_name	Varchar	40
Price	Integer	10

I/O Forms Design & Event Coding:

The software project for New Clothing Store 'VOGUE' contains various forms along with programming codes. Forms (JFrames) and their event coding are given below.

Frame: MainUI.java

Coding for Main.java

```
package pkgnew.clothing.store;
import java.sql.*;
import javax.swing.JOptionPane;

public class Main extends javax.swing.JFrame {
Connection con = null;
Statement stmt = null;
ResultSet rs = null;
String e,p;
int c;
    /**
     * Creates new form Main
     */
    public Main() {
        initComponents();


    }


    private void WomenActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
```

```java
        Women y;
        y = new Women();
        y.setVisible(true);

    }

private void signUpActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    sign_up m;
    m = new sign_up();
    m.setVisible(true);
}

private void SignInActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String email = jTextField1.getText();
    String pass = new String(jPasswordField1.getPassword());
    try{Class.forName("com.mysql.jdbc.Driver");
    con = DriverManager.getConnection("jdbc:mysql://localhost/vogue","root","kvuc");
    stmt = con.createStatement();
    rs = stmt.executeQuery("select * from sign_up where email='"+ email +"' ;");
    while(rs.next()){
    String p = rs.getString("password");
    if(p.equals(pass)){Men.setEnabled(true);
    Women.setEnabled(true);
    JOptionPane.showMessageDialog(null,"You Have Signed In Successfully"); }
    else {JOptionPane.showConfirmDialog(null,"Username Or Password Is Incorrect!",null,-1,0);}
    }
rs.close();
stmt.close();
con.close();
    }
    catch(Exception e)
    {JOptionPane.showMessageDialog(null,e.getMessage());}

    }

private void MenActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Men x;
    x = new Men();
    x.setVisible(true);
}
```

```
public static void main(String args[]) {

    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new Main().setVisible(true);
        }
    });
}
```

Frame : sign_up.java

Coding of sign_up.java

```
package pkgnew.clothing.store;
import javax.swing.JOptionPane;
import java.sql.*;
/**
 *
 * @author manjeet
 */
public class sign_up extends javax.swing.JFrame {
Connection con= null;
Statement stmt = null;
ResultSet rs= null;
String DB = "jdbc:mysql://localhost/Vogue";
int n = 0;
    /**
     * Creates new form sign_up
```

```java
*/
public sign_up() {
    initComponents();
    try{ Class.forName("com.mysql.jdbc.Driver");
    con = DriverManager.getConnection(DB, "root", "kvuc");
    stmt = con.createStatement();
    rs = stmt.executeQuery("select * from sign_up;");

    while (rs.last()){
    n = rs.getInt("user_no");
    rs.close();
    stmt.close();
    con.close();
    }
    }
    catch(Exception e)
    {JOptionPane.showMessageDialog(null,e.getMessage());}


}

private void CreateAccountActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
        n= n+1;
    String f_name = jTextField1.getText();
    String l_name = jTextField2.getText();
    String email = jTextField3.getText();
    String pass = new String(jPasswordField1.getPassword());
    String c_pass = new String(jPasswordField2.getPassword());
    String usertype;
    if (jRadioButton1.isSelected()){usertype = "Premium";}
    else {usertype = "Free";}
    if (f_name.length()== 0){ JOptionPane.showMessageDialog(null,"First name field is
empty!");}
    else{
    if (email.length()== 0){ JOptionPane.showMessageDialog(null,"Give the valid E-mail
address.");}
    else {
    if(jRadioButton1.isSelected()== true || jRadioButton2.isSelected()== true){String a=
"insert into sign_up values("+ n + ",'"+ f_name + "','" +l_name + "','"+ email +"','"+ pass +"'
,'"+ usertype + "' );";
    if(pass.equals(c_pass)){
        try{
```

```java
        Class.forName("com.mysql.jdbc.Driver");
    con = DriverManager.getConnection("jdbc:mysql://localhost/Vogue","root","kvuc");
    stmt = con.createStatement();
    int b = stmt.executeUpdate(a);

con.close();
    stmt.close();
    rs.close();
    String show = "You Have Successfully Signed Up With VOGUE. We Hope That You'll
Enjoy Our Service.\n Your Username is :" + email + " \n Your Password is :"+ pass + "" ;
    JOptionPane.showMessageDialog(null,show);

    }
    catch(Exception e)
    {JOptionPane.showMessageDialog(null,e.getMessage());}

}
else { JOptionPane.showMessageDialog(null,"Fill  password correctly.");

}}
else {JOptionPane.showMessageDialog(null,"Select the User Type");

    }
    }
    }




    jTextField1.setText("");
    jTextField2.setText("");
    jTextField3.setText("");
    jCheckBox1.setSelected(false);
    jRadioButton2.setSelected(false);
    jRadioButton1.setSelected(false);
    jPasswordField1.setText("");
    jPasswordField2.setText("");




    }
    catch (Exception e){
    JOptionPane.showMessageDialog(null,e.getMessage());}
```
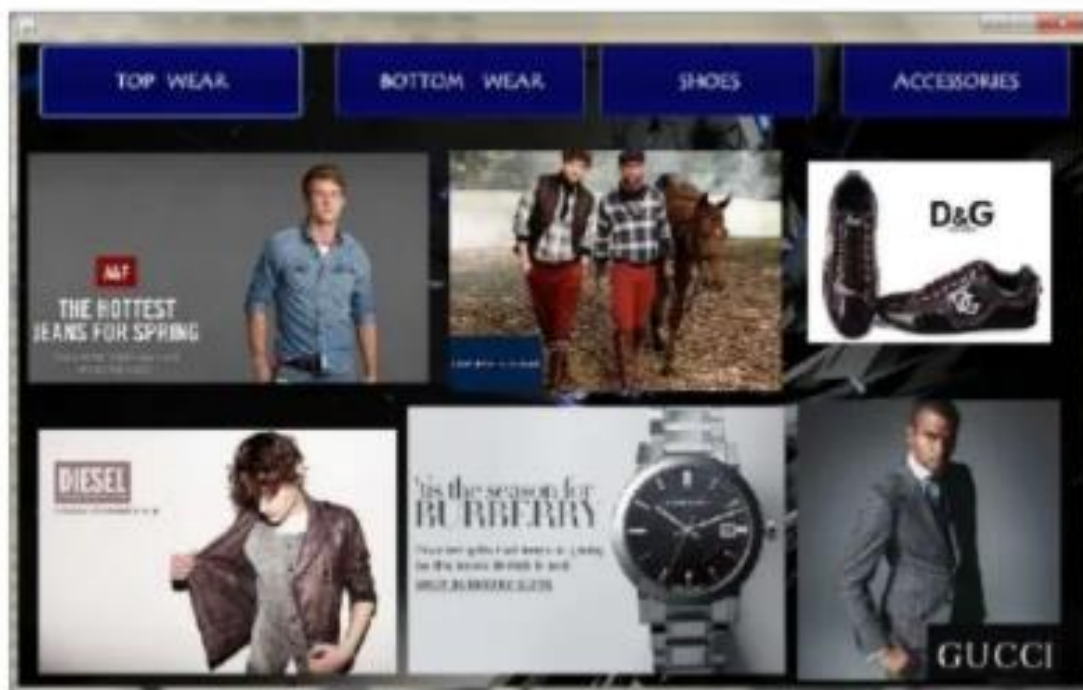
```
    }

    private void jCheckBox1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        CreateAccount.setEnabled(true);
    }

public static void main(String args[]) {
java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
          new sign_up().setVisible(true);
        }
    });
}
```

Frame: Men.java

Coding for Men.java

package pkgnew.clothing.store;

public class Men extends javax.swing.JFrame {

    /**

```java
     * Creates new form Men
     */
    public Men() {
        initComponents();
    }

private void TopWearActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        Top_Wear_M a;
        a = new Top_Wear_M();
        a.setVisible(true);
    }

    private void BottomWearActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        jeans_m a;
        a = new jeans_m();
        a.setVisible(true);

    }

    private void ShoesActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        shoes_men a;
        a = new shoes_men();
        a.setVisible(true);
    }

    private void AccessoriesActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        accessories_m a;
        a = new accessories_m();
        a.setVisible(true);
    }

public static void main(String args[]) {
java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
          new Men().setVisible(true);
        }
    });
    }
```

Frame: Top_Wear_M.java

Coding for Top_Wear_M.Java

```java
package pkgnew.clothing.store;

public class Top_Wear_M extends javax.swing.JFrame {

    /**
     * Creates new form Top_Wear_M
     */
    public Top_Wear_M() {
        initComponents();
    }

private void JacketsActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Jackets_M a;
    a = new Jackets_M();
    a.setVisible(true);
}

    private void ShirtsActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    shirts_m a;
    a = new shirts_m();
    a.setVisible(true);
```
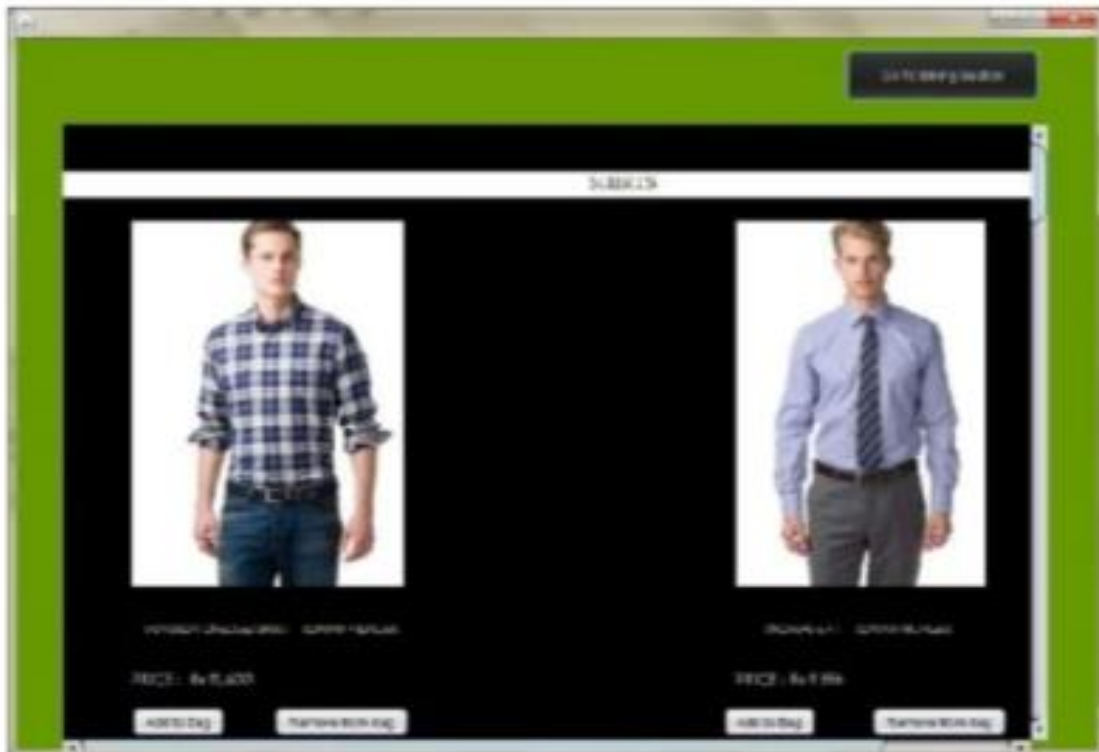
```
       }

public static void main(String args[]) {
java.awt.EventQueue.invokeLater(new Runnable() {
      public void run() {
         new Top_Wear_M().setVisible(true);
       }
    });
  }
```

Frame: shirts_m.java

Code For shirts_m.java
```
package pkgnew.clothing.store;
import java.sql*;
import javax.swing.JOptionPane;

public class shirts_m extends javax.swing.JFrame {
Connection con = null;
Statement stmt = null;
ResultSet rs= null;
int icode, p;
```

```java
String bname, iname, t;
   /**
    * Creates new form shirts_m
    */
   public shirts_m() {
     initComponents();
     try{Class.forName("com.mysql.jdbc.Driver");
     con = DriverManager.getConnection("jdbc:mysql://localhost/vogue","root","kvue");
     stmt= con.createStatement();
      }
     catch(Exception e)
     {JOptionPane.showMessageDialog(null,e.getMessage());}
 }

 private void AddToBag1ActionPerformed(java.awt.event.ActionEvent evt) {
     // TODO add your handling code here:
      try{
     rs = stmt.executeQuery("select * from mens_wear where item_code= 1090;");
     while(rs.next()){
       icode = rs.getInt("item_code");
       p = rs.getInt("price");
       bname = rs.getString("brandname");
       iname = rs.getString("item_name");
       t = rs.getString("type");
     }
     rs.close();
     stmt.close();
     con.close();
     }
     catch(Exception e)
     {JOptionPane.showMessageDialog(null,e.getMessage());}
   try{Class.forName("com.mysql.jdbc.Driver");
     con = DriverManager.getConnection("jdbc:mysql://localhost/vogue","root","kvue");
     stmt= con.createStatement();
     int a = stmt.executeUpdate("insert into bill_items values("+icode+", '"+ t +"' ,'"+
bname+"','"+ iname + "','"+ p + "')");
     JOptionPane.showMessageDialog(null,"Added Succesfully");
     }
     catch(Exception e)
     {JOptionPane.showMessageDialog(null,e.getMessage());}
 }
 private void RemoveFromeBag1ActionPerformed(java.awt.event.ActionEvent evt) {
```

```java
        JOptionPane.showMessageDialog(null,"Added Succesfully");
        }
        catch(Exception e)
        {JOptionPane.showMessageDialog(null,e.getMessage());}
}
private void RemoveFromeBag1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        try{Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost/vogue","root","kvuc");
        stmt= con.createStatement();
        int a = stmt.executeUpdate("Delete from bill_items where item_code = 1090;");
        rs.close();
        stmt.close();
        con.close();
        JOptionPane.showMessageDialog(null,"Removed Succesfully");
        }

        catch(Exception e)
        {JOptionPane.showMessageDialog(null,e.getMessage());}
    }
```

Frame: shoes_m.java

Coding for shoes_m.java

```java
package pkgnew.clothing.store;
import java.sql.*;
import javax.swing.JOptionPane;

public class shoes_m extends javax.swing.JFrame {
```

```java
Connection con = null;
Statement stmt = null;
ResultSet rs= null;
int icode, p;
String bname, iname, t;
  /**
   * Creates new form shoes_m
   */
  public shoes_m() {
    initComponents();
    try{Class.forName("com.mysql.jdbc.Driver");
    con = DriverManager.getConnection("jdbc:mysql://localhost/vogue","root","kvuc");
    stmt= con.createStatement();
     }
    catch(Exception e)
    {JOptionPane.showMessageDialog(null,e.getMessage());}
 }

private void AddToBag1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
    rs = stmt.executeQuery("select * from mens_wear where item_code= 1090;");
    while(rs.next()){
      icode = rs.getInt("item_code");
      p = rs.getInt("price");
      bname = rs.getString("brandname");
      iname = rs.getString("item_name");
      t = rs.getString("type");
    }
    rs.close();
    stmt.close();
    con.close();
    }
    catch(Exception e)
    {JOptionPane.showMessageDialog(null,e.getMessage());}
  try{Class.forName("com.mysql.jdbc.Driver");
    con = DriverManager.getConnection("jdbc:mysql://localhost/vogue","root","kvuc");
    stmt= con.createStatement();
    int a = stmt.executeUpdate("insert into bill_items values("+icode+", '"+ t+"' , '"+
bname+"','"+ iname + "','"+ p+ "')");
    JOptionPane.showMessageDialog(null,"Added Succesfully");
    }
```
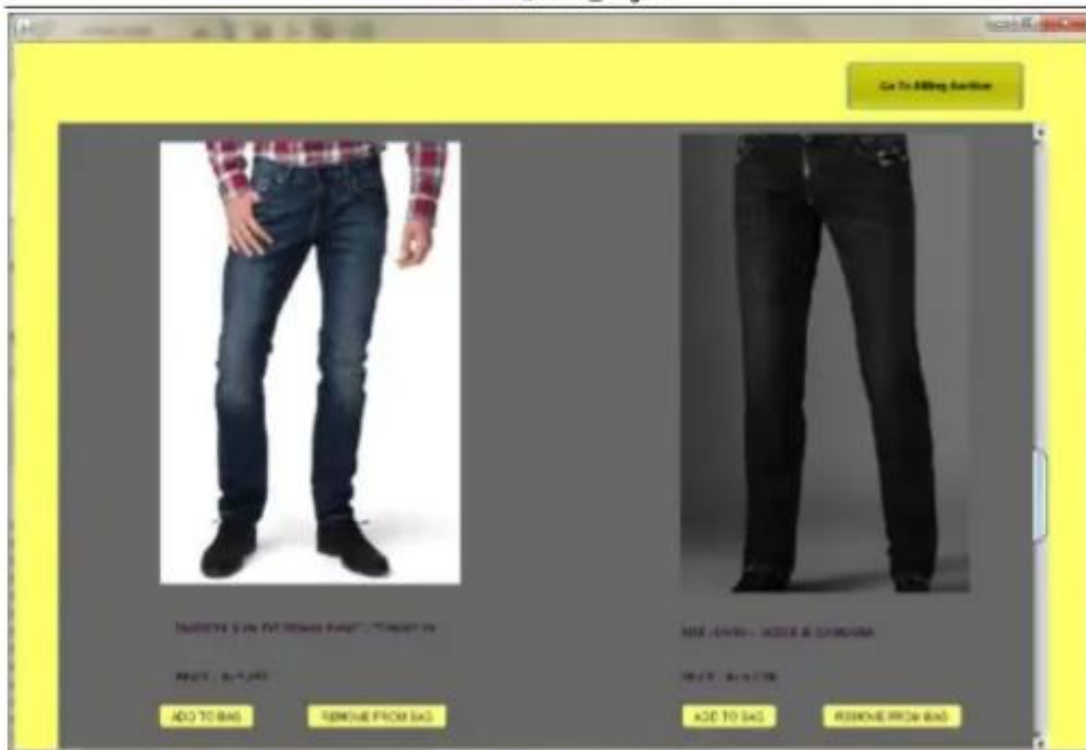
```
        catch(Exception e)
        {JOptionPane.showMessageDialog(null,e.getMessage());}
}
private void RemoveFromeBag1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        try{Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost/vogue","root","kvuc");
        stmt= con.createStatement();
        int a = stmt.executeUpdate("Delete from bill_items where item_code = 1090;");
        rs.close();
        stmt.close();
        con.close();
        JOptionPane.showMessageDialog(null,"Removed Succesfully");
        }

        catch(Exception e)
        {JOptionPane.showMessageDialog(null,e.getMessage());}
    }
```

Frame: Jeans_m.java

```java
    con = DriverManager.getConnection("jdbc:mysql://localhost/vogue","root","kvuc");
    stmt= con.createStatement();
    int a = stmt.executeUpdate("insert into bill_items values("+icode+", '"+ t+"' , '"+
bname+"','"+ iname + "','"+ p + ")");
    JOptionPane.showMessageDialog(null,"Added Succesfully");
    }
    catch(Exception e)
    {JOptionPane.showMessageDialog(null,e.getMessage());}
}
private void RemoveFromeBag1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{Class.forName("com.mysql.jdbc.Driver");
    con = DriverManager.getConnection("jdbc:mysql://localhost/vogue","root","kvuc");
    stmt= con.createStatement();
    int a = stmt.executeUpdate("Delete from bill_items where item_code = 1090;");
    rs.close();
    stmt.close();
    con.close();
    JOptionPane.showMessageDialog(null,"Removed Succesfully");
    }

    catch(Exception e)
    {JOptionPane.showMessageDialog(null,e.getMessage());}
  }
```

Frame: accessories_m.java

Coding for accessories_m.java

```java
package pkgnew.clothing.store;
```

Coding of Jeans_m.Java

```java
package pkgnew.clothing.store;
import java.sql*;
import javax.swing.JOptionPane;

public class Jeans_m extends javax.swing.JFrame {
Connection con = null;
Statement stmt = null;
ResultSet rs= null;
int icode, p;
String bname, iname, t;
 /**
  * Creates new form Jeans_m
  */
 public Jeans_m() {
   initComponents();
   try{Class.forName("com.mysql.jdbc.Driver");
   con = DriverManager.getConnection("jdbc:mysql://localhost/vogue","root","kvuc");
   stmt= con.createStatement();
    }
   catch(Exception e)
   {JOptionPane.showMessageDialog(null,e.getMessage());}



private void AddToBag1ActionPerformed(java.awt.event.ActionEvent evt) {
   // TODO add your handling code here:
    try{
   rs = stmt.executeQuery("select * from mens_wear where item_code= 1090;");
   while(rs.next()){
      icode = rs.getInt("item_code");
      p = rs.getInt("price");
      bname = rs.getString("brandname");
      iname = rs.getString("item_name");
      t = rs.getString("type");
   }
   rs.close();
   stmt.close();
   con.close();
   }
   catch(Exception e)
   {JOptionPane.showMessageDialog(null,e.getMessage());}
 try{Class.forName("com.mysql.jdbc.Driver");
```
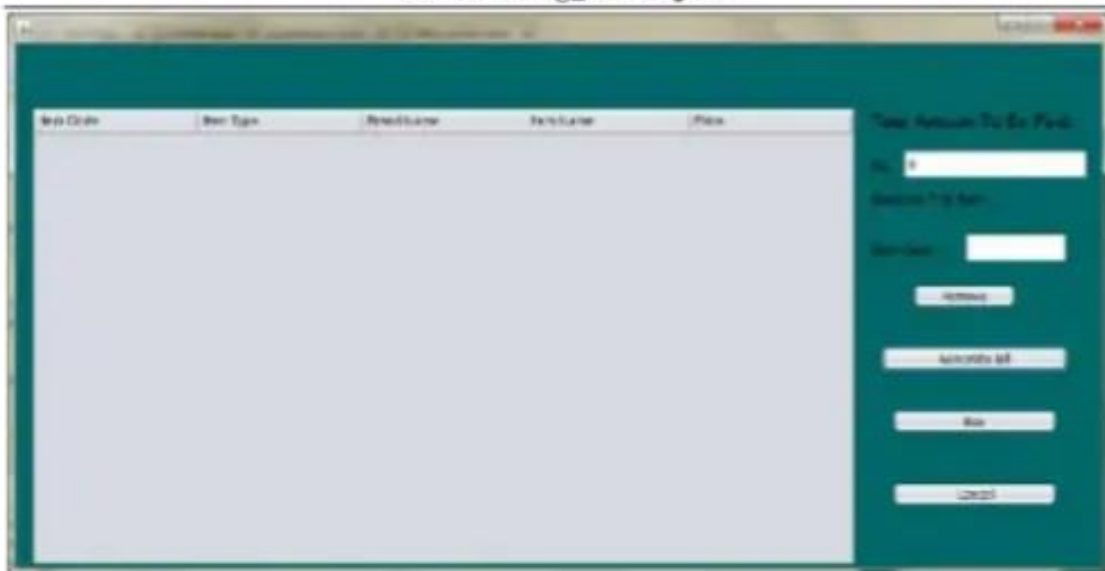
```
        catch(Exception e)
        {JOptionPane.showMessageDialog(null,e.getMessage());}
    }
private void RemoveFromBagActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{Class.forName("com.mysql.jdbc.Driver");
    con = DriverManager.getConnection("jdbc:mysql://localhost/vogue","root","kvuc");
    stmt= con.createStatement();
    int a = stmt.executeUpdate("Delete from bill_items where item_code = 1001;");
    rs.close();
    stmt.close();
    con.close();
    JOptionPane.showMessageDialog(null,"Removed Succesfully");
    }

    catch(Exception e)
    {JOptionPane.showMessageDialog(null,e.getMessage());}
}
```

Frame: billing_section.java

Coding for billing_section.java

```java
package pkgnew.clothing.store;
import java.sql.*;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
```

```java
public class billing_section extends javax.swing.JFrame {

    /**
     * Creates new form billing_section
     */
    public billing_section() {
        initComponents();
    }

private void GenerateBillActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    DefaultTableModel tm = (DefaultTableModel)jTable1.getModel();
    try{
    Class.forName("com.mysql.jdbc.Driver");
    Connection con= DriverManager.getConnection("jdbc:mysql://localhost/vogue", "root",
"kvuc");
    Statement stmt = con.createStatement();
    ResultSet rs = stmt.executeQuery("select * from bill_items;");
    int ic, p;
    String b,i,t;
    while(rs.next()){
    ic = rs.getInt("Item_code");
    p = rs.getInt("price");
    b = rs.getString("brandname");
    i = rs.getString("Item_name");
    t = rs.getString("type");
    Object r[] = {ic,t,b,i,p};
    tm.addRow(r);
    }
      rs.close();
      stmt.close();
      con.close();
    }
    catch(Exception e){ JOptionPane.showMessageDialog(null, e.getMessage());}

    /* */

    try{
    Class.forName("com.mysql.jdbc.Driver");
    Connection con= DriverManager.getConnection("jdbc:mysql://localhost/vogue", "root",
"kvuc");
    Statement stmt = con.createStatement();
```

```
ResultSet rs = stmt.executeQuery("select sum(price) from bill_items;");
int b=0;
while(rs.next()){ b = rs.getInt("sum(price)");}
jTextField1.setText(""+ b);
  rs.close();
  stmt.close();
  con.close();
}
catch(Exception e){ JOptionPane.showMessageDialog(null, e.getMessage());}
}

private void RemoveActionPerformed(java.awt.event.ActionEvent evt) {
// TODO add your handling code here:
DefaultTableModel tm = (DefaultTableModel)jTable1.getModel();

tm.setRowCount(0);
/* */

int a = Integer.parseInt(jTextField2.getText());
try{
Class.forName("com.mysql.jdbc.Driver");
Connection con= DriverManager.getConnection("jdbc:mysql://localhost/vogue", "root",
"kvuc");
Statement stmt = con.createStatement();
int d = stmt.executeUpdate("delete from bill_items where item_code="+ a +";");


  stmt.close();
  con.close();
}
catch(Exception e){ JOptionPane.showMessageDialog(null, e.getMessage());}
/* */

try{
Class.forName("com.mysql.jdbc.Driver");
Connection con= DriverManager.getConnection("jdbc:mysql://localhost/vogue", "root",
"kvuc");
Statement stmt = con.createStatement();
ResultSet rs = stmt.executeQuery("select * from bill_items;");
int ic, p;
String b,i,t;
while(rs.next()){
```

```java
ic = rs.getInt("Item_code");
p = rs.getInt("price");
b = rs.getString("brandname");
i = rs.getString("Item_name");
t = rs.getString("type");
Object r[] = {ic,t,b,i,p};
tm.addRow(r);
}
  rs.close();
  stmt.close();
  con.close();
}
catch(Exception e){ JOptionPane.showMessageDialog(null, e.getMessage());}


/* */


try{
Class.forName("com.mysql.jdbc.Driver");
Connection con= DriverManager.getConnection("jdbc:mysql://localhost/vogue", "root",
"kvuc");
Statement stmt = con.createStatement();
ResultSet rs = stmt.executeQuery("select sum(price)from bill_items;");
int b=0;
while(rs.next()){ b = rs.getInt("sum(price)");}
jTextField1.setText(""+ b);
  rs.close();
  stmt.close();
  con.close();
}
catch(Exception e){ JOptionPane.showMessageDialog(null, e.getMessage());}
}

private void BuyActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  DefaultTableModel tm = (DefaultTableModel)jTable1.getModel();
  tm.setRowCount(0);
  JOptionPane.showMessageDialog(null,"Thank You For Shopping With VOGUE.\n \n
*Items Will Reach At The Given Address In A Week.");
  this.dispose();
  /* */


try{
```

```java
        Class.forName("com.mysql.jdbc.Driver");
        Connection con= DriverManager.getConnection("jdbc:mysql://localhost/vogue", "root",
"kvuc");
        Statement stmt = con.createStatement();
        int m = stmt.executeUpdate("delete from bill_items;");



        stmt.close();
        con.close();
    }
    catch(Exception e){ JOptionPane.showMessageDialog(null, e.getMessage());}


  }


  private void CancelActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    this.dispose();
  }


public static void main(String args[]) {
java.awt.EventQueue.invokeLater(new Runnable() {
      public void run() {
        new billing_section().setVisible(true);
      }
    });
  }
```