INTRODUCTION

This is a software which runs a store specializing in products for users to buy online. There is a rise in the demand for such these products and we hope to cater to this market. Our customers may use the software to browse through the products in our catalogue and select individual products very easily. The bill may be generated very easily and efficiently.

AIMS

The main aim of this project is to help the staff to buy items online easily, making it less time consuming and less tiring for the user with the computerized system.

OBJECTIVES

- ❖ **Providing a delightful and memorable customer experience.**
- ❖ **Complete hassle free shopping experience.**
- ❖ **To highlight the convenience of e-commerce to traditional offline shoppers and help grow the market.**
- ❖ **Retrieval of data should be swift and effortless.**
- ❖ **Ensure that the computerized system is cheaper than manual system.**

MANUAL SYSTEM

- ➢ **In the manual system the information about each product is recorded in large and cumbersome registers and requires huge amount of paperwork and it is time consuming.**

- ➢ **Modifying records will require more time and effort as the whole information should be re-written.**

- ➢ **Retrieving records will be extremely difficult as one has to go through the previous records.**

ADVANTAGES OF MANUAL SYSTEM

- **The staff know their job very well and are well settled.**

- **No technical/computer knowledge is required.**

- **Check the quality of the product before buying it.**

- **Low installation cost.**

- **Salesman's reviews are available.**

DISADVANTAGES OF MANUAL SYSTEM

- Retrieval of individual record is time consuming.

- Limited range of products.

- Report making is difficult.

- Modifying records will be strenuous and time consuming.

- Inconvenient as one has to visit the shops.

COMPUTERIZED SYSTEM

The computerized system as mentioned earlier, aims at simplification and increasing the efficiency of the manual system. The programs can be used to enter, store, manipulate the products. Using the computerized system makes it easier for the user to maintain the stock.
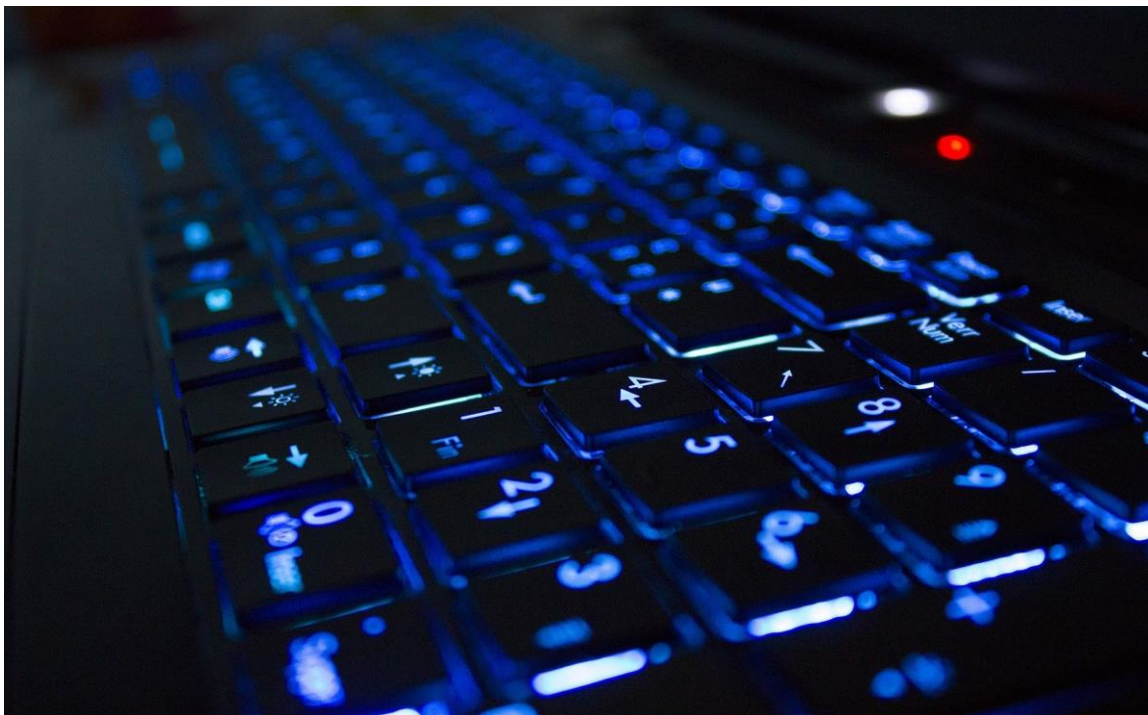
ADVANTAGES OF COMPUTERIZED SYSTEM

- ➤ The program is user friendly and requires no special training.

- ➤ It is highly efficient and records can be updated in no time.

  - ➤ Reports can be generated to maintain the transaction.

- ➤ Huge range of products available and saves time.

- ➤ The program is small and does not require much space on the hard disk.
- ➤ There is no sales pressure and easy price comparisons.

DISADVANTAGES OF COMPUTERIZED SYSTEM

- ➤ Although the program is known to be simple but the discovery of any error cannot be corrected by the user himself.

- ➤ Viruses are always a threat to any computer based system and can cause the loss of data, so special care must be taken to protect the system from viruses.

TECHNICAL DOCUMENTATION

Tables Used

Database: Project

Table: shoes

Structure

```
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| Name    | varchar(50) | YES  |     | NULL    |       |
| Brand   | varchar(25) | YES  |     | NULL    |       |
| Colour  | varchar(25) | YES  |     | NULL    |       |
| Gender  | varchar(25) | YES  |     | NULL    |       |
| Price   | int(4)      | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
```

Records

Name	Brand	Colour	Gender	Price
Jordan 1 Retro High Travis Scott	Nike	Nuetrals	Male	9714
Puma LQD Cell Optic	Puma	Mix	Unisex	500
React Element 55	Nike	Black and Blue	Unisex	600
NMD R1 PK	Adidas	Black and Green	Female	450
Rs-X Tracks Sneakers	Puma	White	Male	570
Pharrell Williams Solar HU NMD	Adidas	Yellow and Grey	Unisex	1090
Thunder Spectra	Puma	White	Male	650
Falcon Sneakers with Suede Overlay Accents	Adidas	Mix	Male	350
Air Max 200	Nike	White	Female	800
Black Yeezy v2	Adidas	Black	Male	400
NMD R1 PK	Adidas	Black and Green	Female	450

Table: laptops

Structure

```
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| Name        | varchar(50) | YES  |     | NULL    |       |
| Brand       | varchar(50) | YES  |     | NULL    |       |
| Itel_Core   | varchar(25) | YES  |     | NULL    |       |
| RAM         | int(4)      | YES  |     | NULL    |       |
| Screen_Size | varchar(25) | YES  |     | NULL    |       |
| Storage     | varchar(25) | YES  |     | NULL    |       |
| Price       | int(4)      | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
```

Records

```
+---------------+---------+-----------+------+-------------+---------+-------+
| Name          | Brand   | Itel_Core | RAM  | Screen_Size | Storage | Price |
+---------------+---------+-----------+------+-------------+---------+-------+
| HP 15-da0000ne| HP      | i5        |    4 | 15.6        | 1TB     |  1399 |
| Ideapad L340  | Lenovo  | i7        |   16 | 15.6        | 1TB     |  3999 |
| HP 14-dh0014ne| HP      | i7        |    8 | 15.6        | 1TB     |  3129 |
| Macbook       | Apple   | i9        |   16 | 14          | 1TB     |  8700 |
| Thinkpad      | Lenovo  | i5        |    8 | 15.6        | 1TB     |  2390 |
| Pavillion     | HP      | i7        |    8 | 15.6        | 1TB     |  3639 |
| Acer nitro5   | Acer    | i5        |    8 | 14          | 1TB     |  4099 |
| inspiron      | Dell    | i7        |   16 | 15.6        | 1TB     |  4881 |
| Chromebook    | Samsung | i3        |    4 | 11.6        | 1TB     |   859 |
| Alienware     | HP      | i7        |   16 | 15.6        | 1TB     | 11030 |
+---------------+---------+-----------+------+-------------+---------+-------+
```

Table: watches

Structure

```
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| Name   | varchar(50) | YES  |     | NULL    |       |
| Colour | varchar(25) | YES  |     | NULL    |       |
| Gender | varchar(25) | YES  |     | NULL    |       |
| Price  | int(6)      | YES  |     | NULL    |       |
+--------+-------------+------+-----+---------+-------+
```

Records

```
+----------+----------------+--------+-------+
| Name     | Colour         | Gender | Price |
+----------+----------------+--------+-------+
| Rolex    | Ceramic        | Male   | 6069  |
| Fossil   | Brown and Blue | Unisex | 1200  |
| Titan    | Red            | Unisex | 1600  |
| Police   | Black          | Female | 2450  |
| Phillips | blue           | Male   | 1570  |
+----------+----------------+--------+-------+
```

Table: Phones

Structure

```
+----------+--------------+------+-----+---------+-------+
| Field    | Type         | Null | Key | Default | Extra |
+----------+--------------+------+-----+---------+-------+
| Name     | varchar(50)  | YES  |     | NULL    |       |
| Brand    | varchar(50)  | YES  |     | NULL    |       |
| RAM      | int(4)       | YES  |     | NULL    |       |
| Storage  | varchar(25)  | YES  |     | NULL    |       |
| Color    | varchar(25)  | YES  |     | NULL    |       |
| Price    | int(6)       | YES  |     | NULL    |       |
| Camera   | varchar(12)  | YES  |     | NULL    |       |
+----------+--------------+------+-----+---------+-------+
```

Records

```
+----------------+---------+------+---------+--------------+-------+--------+
| Name           | Brand   | RAM  | Storage | Color        | Price | Camera |
+----------------+---------+------+---------+--------------+-------+--------+
| Iphone11       | Apple   |   6  | 512GB   | gold         | 4500  | 12mp   |
| S10            | Samsung |   8  | 256GB   | Crimson Blue | 3150  | 16mp   |
| Mate20         | Huwaei  |   6  | 32GB    | Sky Blue     | 2000  | 40mp   |
| MiA3           | Xiaomi  |   4  | 64GB    | Red          |  804  | 48mp   |
| Galaxy note 9  | Samsung |   8  | 512GB   | Navy Blue    | 3750  | 12mp   |
| Redmi note 4   | Xiaomi  |   6  | 256GB   | White        |  800  | 48mp   |
| OnePlus 7 Pro  | OnePlus |   6  | 128GB   | rose gold    | 2079  | 12mp   |
| nokia 8.1      | Nokia   |   6  | 64GB    | Black        |  635  | 40mp   |
| Reno           | Oppo    |   6  | 64GB    | Ocean Green  | 1299  | 40mp   |
| Galaxy note 10 | Samsung |   8  | 512GB   | White        | 2548  | 12mp   |
+----------------+---------+------+---------+--------------+-------+--------+
```

Table: User

Structure

```
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| f_name  | varchar(20) | YES  |     | NULL    |       |
| s_name  | varchar(20) | YES  |     | NULL    |       |
| age     | int(4)      | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
```

Records

```
+------------+----------+-------+
| f_name     | s_name   | age   |
+------------+----------+-------+
| Amit       | Gupta    | 35    |
| AmitShah   | Gupta    | 28    |
| Seby       | Sabu     | 18    |
+------------+----------+-------+
```

Common Import Statements

import java.awt.Image;

import javax.swing.ImageIcon;

import javax.swing.JOptionPane;

import java.sql.DriverManager;

import java.sql.Connection;

import java.sql.Statement;

import java.sql.ResultSet;

Common Global Variables

Connection cn=null;

Statement st=null;

ResultSet rs=null;

String sql="";

NEWJFRAME1

Form Component Shown

java.net.URL imageURL=NewJFrame2.class.getResource("Logo.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);

jLabel1Mouse Clicked

this.setVisible(false);

NewJFrame2 f2=new NewJFrame2();

f2.setVisible(true);

JFrame2

Import Statements

Same as Import statements given above.

Form Component Shown

java.net.URL imageURL=NewJFrame2.class.getResource("Log-in.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel4.getWidth(),jLabel4.getHeight(),Image.SCALE_DEFAULT);

i.setImage(im);

jLabel4.setIcon(i);

Log In Button Code

String p="";

p=new String(jPasswordField1.getPassword());

if(p.equals("")==true)

{

JOptionPane.showMessageDialog(null,"Please Enter Password","Login",JOptionPane.ERROR_MESSAGE);

return;

}

```java
else if(p.equals("netbeans")==true)

{

this.setVisible(false);

NewJFrame3 f3=new NewJFrame3();

f3.setVisible(true);

}

else

{

JOptionPane.showMessageDialog(null,"Please Enter Correct
Password","Login",JOptionPane.ERROR_MESSAGE);

return; }
```

JFrame3

Import Statements

Same as Import statements given above.

Form Component Shown

```java
java.net.URL imageURL=NewJFrame2.class.getResource("Shoes.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel6.getWidth(),jLabel6.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel6.setIcon(i);


java.net.URL imageURL2=NewJFrame2.class.getResource("Watch.jpg");
```

```java
ImageIcon i2= new ImageIcon(imageURL2);

Image im2=i2.getImage();

im2=im2.getScaledInstance(jLabel8.getWidth(),jLabel8.getHeight(),Image.SCAL
E_DEFAULT);

i2.setImage(im2);

jLabel8.setIcon(i2);


java.net.URL imageURL3=NewJFrame2.class.getResource("Laptop.jpg");

ImageIcon i3=new ImageIcon(imageURL3);

Image im3=i3.getImage();

im3=im3.getScaledInstance(jLabel7.getWidth(),jLabel7.getHeight(),Image.SCAL
E_DEFAULT);

i3.setImage(im3);

jLabel7.setIcon(i3);


java.net.URL imageURL4=NewJFrame2.class.getResource("phones.jpg");

ImageIcon i4=new ImageIcon(imageURL4);

Image im4=i4.getImage();

im4=im4.getScaledInstance(jLabel5.getWidth(),jLabel5.getHeight(),Image.SCAL
E_DEFAULT);

i4.setImage(im4);

jLabel5.setIcon(i4);


java.net.URL imageURL5=NewJFrame2.class.getResource("Choice.jpg");

ImageIcon i5=new ImageIcon(imageURL5);

Image im5=i5.getImage();
```

```java
im5=im5.getScaledInstance(jLabel9.getWidth(),jLabel9.getHeight(),Image.SCALE_DEFAULT);

i5.setImage(im5);

jLabel9.setIcon(i5);
```

Buy Phone Button Code

```java
this.setVisible(false);

NewJFrame4 f4=new NewJFrame4();

f4.setVisible(true);
```

Buy Shoe Button Code

```java
this.setVisible(false);

NewJFrame5 f5=new NewJFrame5();

f5.setVisible(true);
```

Buy Laptop Button Code

```java
this.setVisible(false);

NewJFrame6 f6=new NewJFrame6();

f6.setVisible(true);
```

Buy watch Button Code

```java
this.setVisible(false);

NewJFrame7 f7=new NewJFrame7();

f7.setVisible(true);
```

JFrame4

Import Statements

Same as Import statements given above.

Global Variables

Same as global variables given above.

Form Component Shown

```
try
{
Class.forName("java.sql.DriverManager");

cn=DriverManager.getConnection("jdbc:mysql://localhost:3306/project1","root","3333333");

sql="select * from phones;";

st=cn.createStatement();

rs=st.executeQuery(sql);

rs.next();


jTextField1.setText(rs.getString("Name"));

jTextField2.setText(rs.getString("Brand"));

jTextField3.setText(rs.getString("RAM"));

jTextField4.setText(rs.getString("Storage"));

jTextField5.setText(rs.getString("Color"));

jTextField6.setText(rs.getString("Price"));

jTextField7.setText(rs.getString("Camera"));
```

```java
java.net.URL
imageURL=NewJFrame.class.getResource(jTextField1.getText()+".jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);

}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString());

}


buttonGroup1.add(jRadioButton1);

buttonGroup1.add(jRadioButton2);

buttonGroup1.add(jRadioButton3);


java.net.URL imageURL=NewJFrame2.class.getResource("Product.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel13.getWidth(),jLabel13.getHeight(),Image.SCAL
E_DEFAULT);

i.setImage(im);

jLabel13.setIcon(i);
```

First Button Code

```
try
{
rs.first();

jTextField1.setText(rs.getString("Name"));

jTextField2.setText(rs.getString("Brand"));

jTextField3.setText(rs.getString("RAM"));

jTextField4.setText(rs.getString("Storage"));

jTextField5.setText(rs.getString("Color"));

jTextField6.setText(rs.getString("Price"));

jTextField7.setText(rs.getString("Camera"));


java.net.URL
imageURL=NewJFrame.class.getResource(jTextField1.getText()+".jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);
}
catch(NullPointerException npe){


java.net.URL imageURL=NewJFrame.class.getResource("Image Not
Found.jpg");

ImageIcon i=new ImageIcon(imageURL);
```

```java
Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString());

}
```

Next Button Code

```java
try

{

if(rs.next()==false)

rs.last();

jTextField1.setText(rs.getString("Name"));

jTextField2.setText(rs.getString("Brand"));

jTextField3.setText(rs.getString("RAM"));

jTextField4.setText(rs.getString("Storage"));

jTextField5.setText(rs.getString("Color"));

jTextField6.setText(rs.getString("Price"));

jTextField7.setText(rs.getString("Camera"));


java.net.URL
imageURL=NewJFrame.class.getResource(jTextField1.getText()+".jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();
```

```java
im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);

}

catch(NullPointerException npe){


java.net.URL imageURL=NewJFrame.class.getResource("Image Not
Found.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString());

}
```

Last Button Code

```java
try

{

rs.last();

jTextField1.setText(rs.getString("Name"));

jTextField2.setText(rs.getString("Brand"));

jTextField3.setText(rs.getString("RAM"));
```

```java
jTextField4.setText(rs.getString("Storage"));

jTextField5.setText(rs.getString("Color"));

jTextField6.setText(rs.getString("Price"));

jTextField7.setText(rs.getString("Camera"));


java.net.URL
imageURL=NewJFrame.class.getResource(jTextField1.getText()+".jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);

}

catch(NullPointerException npe){


java.net.URL imageURL=NewJFrame.class.getResource("Image Not
Found.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString()); }
```

Previous Button Code

```
try
{
if(rs.previous()==false)
rs.first();
jTextField1.setText(rs.getString("Name"));
jTextField2.setText(rs.getString("Brand"));
jTextField3.setText(rs.getString("RAM"));
jTextField4.setText(rs.getString("Storage"));
jTextField5.setText(rs.getString("Color"));
jTextField6.setText(rs.getString("Price"));
jTextField7.setText(rs.getString("Camera"));


java.net.URL imageURL=NewJFrame.class.getResource(jTextField1.getText()+
".jpg");
ImageIcon i=new ImageIcon(imageURL);
Image im=i.getImage();
im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);
i.setImage(im);
jLabel1.setIcon(i);
}
catch(NullPointerException npe){


java.net.URL imageURL=NewJFrame.class.getResource("Image Not
Found.jpg");
ImageIcon i=new ImageIcon(imageURL);
```

```java
Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString());

}
```

Buy Button Code

```java
String info[]=new String[1];

info[0]=jTextField10.getText();

NewJFrame9.main(info);

this.setVisible(false);
```

Calculate Button Code Code

```java
double discount=0,netamount,discountamt,amount;

amount=Double.parseDouble(jTextField6.getText());

jTextField8.setText(""+amount);

String voucher;

if(jRadioButton1.isSelected()==true)

{

discount=discount+2;

}

else if (jRadioButton2.isSelected()==true)
```

```
{

discount=discount+1;

}

else if (jRadioButton3.isSelected()==true)

{

discount=discount+1.5;

}


voucher=jTextField11.getText();

if(voucher.equals("Disc"))

{

discount=discount+2;

}

discountamt=amount*(discount/100);

jTextField9.setText("" +discount);

netamount=amount-discountamt;

jTextField10.setText(""+netamount);
```

JFrame5

Import Statements

Same as import statements given above.

Global Variables

Same as global variables given above.

Form Component Shown

```
try
{
Class.forName("java.sql.DriverManager");

cn=DriverManager.getConnection("jdbc:mysql://localhost:3306/project1","roo
t","3333333");

sql="select * from shoes;";

st=cn.createStatement();

rs=st.executeQuery(sql);

rs.next();


jTextField1.setText(rs.getString("Name"));

jTextField2.setText(rs.getString("Brand"));

jTextField3.setText(rs.getString("Colour"));

jTextField4.setText(rs.getString("Gender"));

jTextField5.setText(rs.getString("Price"));


java.net.URL
imageURL=NewJFrame.class.getResource(jTextField1.getText()+".jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);

}

catch(Exception e)
```

```
{

JOptionPane.showMessageDialog(null,e.toString());

}


buttonGroup1.add(jRadioButton1);

buttonGroup1.add(jRadioButton2);

buttonGroup1.add(jRadioButton3);


java.net.URL imageURL=NewJFrame2.class.getResource("Product.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel12.getWidth(),jLabel12.getHeight(),Image.SCAL
E_DEFAULT);

i.setImage(im);

jLabel12.setIcon(i);
```

First Button Code

```
try

{

rs.first();

jTextField1.setText(rs.getString("Name"));

jTextField2.setText(rs.getString("Brand"));

jTextField3.setText(rs.getString("Colour"));

jTextField4.setText(rs.getString("Gender"));

jTextField5.setText(rs.getString("Price"));
```

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```java
java.net.URL
imageURL=NewJFrame.class.getResource(jTextField1.getText()+".jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);

}

catch(NullPointerException npe){


java.net.URL imageURL=NewJFrame.class.getResource("Image Not
Found.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString());

}


buttonGroup1.add(jRadioButton1);
```

```
buttonGroup1.add(jRadioButton2);

buttonGroup1.add(jRadioButton3);
```

Last Button Code

```
try
{
rs.last();

jTextField1.setText(rs.getString("Name"));

jTextField2.setText(rs.getString("Brand"));

jTextField3.setText(rs.getString("Colour"));

jTextField4.setText(rs.getString("Gender"));

jTextField5.setText(rs.getString("Price"));


java.net.URL
imageURL=NewJFrame.class.getResource(jTextField1.getText()+".jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);

}
catch(NullPointerException npe){

java.net.URL imageURL=NewJFrame.class.getResource("Image Not
Found.jpg");
```

```java
ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString());

}
```

Next Button Code

```java
try

{

if(rs.next()==false)

rs.last();

jTextField1.setText(rs.getString("Name"));

jTextField2.setText(rs.getString("Brand"));

jTextField3.setText(rs.getString("Colour"));

jTextField4.setText(rs.getString("Gender"));

jTextField5.setText(rs.getString("Price"));


java.net.URL
imageURL=NewJFrame.class.getResource(jTextField1.getText()+".jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();
```

```java
im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);

}

catch(NullPointerException npe){


java.net.URL imageURL=NewJFrame.class.getResource("Image Not
Found.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString());

}
```

Previous Button Code

```java
try
{
if(rs.previous()==false)
rs.first();
jTextField1.setText(rs.getString("Name"));
jTextField2.setText(rs.getString("Brand"));
```

```java
jTextField3.setText(rs.getString("Colour"));

jTextField4.setText(rs.getString("Gender"));

jTextField5.setText(rs.getString("Price"));


java.net.URL imageURL=NewJFrame.class.getResource(jTextField1.getText()+
".jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);

}

catch(NullPointerException npe){


java.net.URL imageURL=NewJFrame.class.getResource("Image Not
Found.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString());

}
```

Buy Button Code

```
String info[]=new String[1];

info[0]=jTextField8.getText();

NewJFrame9.main(info);

this.setVisible(false);
```

Calculate Button Code

```
double discount=0,netamount,discountamt,amount;

amount=Double.parseDouble(jTextField5.getText());

jTextField6.setText(""+amount);

String voucher;

if(jRadioButton1.isSelected()==true)

{

discount=discount+2;

}

else if (jRadioButton2.isSelected()==true)

{

discount=discount+1;

}

else if (jRadioButton3.isSelected()==true)

{

discount=discount+1.5;

}

voucher=jTextField9.getText();
```

```java
if(voucher.equals("Disc"))

{

discount=discount+2;

}

discountamt=amount*(discount/100);

jTextField7.setText("" +discount);

netamount=amount-discountamt;

jTextField8.setText(""+netamount);
```

JFrame6

Import Statements

Same as import statements given above.

Global Variables

Same as global variables given above.

Form Component Shown

```java
try

{

Class.forName("java.sql.DriverManager");

cn=DriverManager.getConnection("jdbc:mysql://localhost:3306/project1","roo
t","3333333");

sql="select * from laptops;";

st=cn.createStatement();

rs=st.executeQuery(sql);

rs.next();
```

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```java
jTextField1.setText(rs.getString("Name"));

jTextField2.setText(rs.getString("Brand"));

jTextField3.setText(rs.getString("Itel_Core"));

jTextField4.setText(rs.getString("Ram"));

jTextField5.setText(rs.getString("Screen_Size"));

jTextField6.setText(rs.getString("Storage"));

jTextField7.setText(rs.getString("Price"));


java.net.URL
imageURL=NewJFrame.class.getResource(jTextField1.getText()+".jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);

}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString());

}


buttonGroup1.add(jRadioButton1);

buttonGroup1.add(jRadioButton2);

buttonGroup1.add(jRadioButton3);


java.net.URL imageURL=NewJFrame2.class.getResource("Product.jpg");
```

```java
ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel13.getWidth(),jLabel13.getHeight(),Image.SCALE_DEFAULT);

i.setImage(im);

jLabel13.setIcon(i);
```

First Button Code

```java
try
{
rs.first();

jTextField1.setText(rs.getString("Name"));

jTextField2.setText(rs.getString("Brand"));

jTextField3.setText(rs.getString("Itel_Core"));

jTextField4.setText(rs.getString("Ram"));

jTextField5.setText(rs.getString("Screen_Size"));

jTextField6.setText(rs.getString("Storage"));

jTextField7.setText(rs.getString("Price"));


java.net.URL
imageURL=NewJFrame.class.getResource(jTextField1.getText()+".jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);
```

```
}
catch(NullPointerException npe){


java.net.URL imageURL=NewJFrame.class.getResource("Image Not
Found.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString());

}
```

Next Button Code

```
try
{
if(rs.next()==false)
rs.last();
jTextField1.setText(rs.getString("Name"));

jTextField2.setText(rs.getString("Brand"));

jTextField3.setText(rs.getString("Itel_Core"));

jTextField4.setText(rs.getString("Ram"));

jTextField5.setText(rs.getString("Screen_Size"));

jTextField6.setText(rs.getString("Storage"));
```

```java
jTextField7.setText(rs.getString("Price"));


java.net.URL
imageURL=NewJFrame.class.getResource(jTextField1.getText()+".jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);

}

catch(NullPointerException npe){


java.net.URL imageURL=NewJFrame.class.getResource("Image Not
Found.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString());

}
```

Last Button Code

```java
try
{
rs.last();

jTextField1.setText(rs.getString("Name"));

jTextField2.setText(rs.getString("Brand"));

jTextField3.setText(rs.getString("Itel_Core"));

jTextField4.setText(rs.getString("Ram"));

jTextField5.setText(rs.getString("Screen_Size"));

jTextField6.setText(rs.getString("Storage"));

jTextField7.setText(rs.getString("Price"));


java.net.URL
imageURL=NewJFrame.class.getResource(jTextField1.getText()+".jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);
}
catch(NullPointerException npe){

java.net.URL imageURL=NewJFrame.class.getResource("Image Not
Found.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();
```

```java
im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString());

}
```

Previous Button Code

```java
try

{

if(rs.previous()==false)

rs.first();

jTextField1.setText(rs.getString("Name"));

jTextField2.setText(rs.getString("Brand"));

jTextField3.setText(rs.getString("Itel_Core"));

jTextField4.setText(rs.getString("Ram"));

jTextField5.setText(rs.getString("Screen_Size"));

jTextField6.setText(rs.getString("Storage"));

jTextField7.setText(rs.getString("Price"));


java.net.URL imageURL=NewJFrame.class.getResource(jTextField1.getText()+
".jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();
```

```java
im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);

}

catch(NullPointerException npe){


java.net.URL imageURL=NewJFrame.class.getResource("Image Not
Found.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString());

}
```

Buy Button Code

```java
String info[]=new String[1];

info[0]=jTextField10.getText();

NewJFrame9.main(info);

this.setVisible(false);
```

Calculate Button Code

```java
double discount=0,netamount,discountamt,amount;

amount=Double.parseDouble(jTextField7.getText());

jTextField8.setText(""+amount);

String voucher;

if(jRadioButton1.isSelected()==true) {

discount=discount+2;

} else if (jRadioButton2.isSelected()==true) {

discount=discount+1;

} else if (jRadioButton3.isSelected()==true) {

discount=discount+1.5;

}

voucher=jTextField11.getText();

if(voucher.equals("Disc")) {

discount=discount+2;

}

discountamt=amount*(discount/100);

jTextField9.setText("" +discount);

netamount=amount-discountamt;

jTextField10.setText(""+netamount);
```

JFrame7

Import Statements

Same as import statements given above.

Global Variables

Same as global variables given above.

Form Component Shown

```
try
{
Class.forName("java.sql.DriverManager");
cn=DriverManager.getConnection("jdbc:mysql://localhost:3306/project1","root","3333333");
sql="select * from watches;";
st=cn.createStatement();
rs=st.executeQuery(sql);
rs.next();


jTextField1.setText(rs.getString("Name"));
jTextField2.setText(rs.getString("Colour"));
jTextField3.setText(rs.getString("Gender"));
jTextField4.setText(rs.getString("Price"));


java.net.URL imageURL=NewJFrame.class.getResource(jTextField1.getText()+".jpg");
ImageIcon i=new ImageIcon(imageURL);
```

```java
Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);

}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString());

}


buttonGroup1.add(jRadioButton1);

buttonGroup1.add(jRadioButton2);

buttonGroup1.add(jRadioButton3);


java.net.URL imageURL=NewJFrame2.class.getResource("Product.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel6.getWidth(),jLabel6.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel6.setIcon(i);
```

First Button Code

```
try
{
rs.first();

jTextField1.setText(rs.getString("Name"));

jTextField2.setText(rs.getString("Colour"));

jTextField3.setText(rs.getString("Gender"));

jTextField4.setText(rs.getString("Price"));


java.net.URL
imageURL=NewJFrame.class.getResource(jTextField1.getText()+".jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i) ;

}
catch(NullPointerException npe){

java.net.URL imageURL=NewJFrame.class.getResource("Image Not
Found.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);}
```

```
catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString());

}


```

Next Button Code

```
try

{

if(rs.next()==false)

rs.last();

jTextField1.setText(rs.getString("Name"));

jTextField2.setText(rs.getString("Colour"));

jTextField3.setText(rs.getString("Gender"));

jTextField4.setText(rs.getString("Price"));


java.net.URL
imageURL=NewJFrame.class.getResource(jTextField1.getText()+".jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);

}

catch(NullPointerException npe){
```

```
java.net.URL imageURL=NewJFrame.class.getResource("Image Not
Found.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString());

}
```

Last Button Code

```
try

{

rs.last();

jTextField1.setText(rs.getString("Name"));

jTextField2.setText(rs.getString("Colour"));

jTextField3.setText(rs.getString("Gender"));

jTextField4.setText(rs.getString("Price"));


java.net.URL
imageURL=NewJFrame.class.getResource(jTextField1.getText()+".jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();
```

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```java
im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);

}

catch(NullPointerException npe){


java.net.URL imageURL=NewJFrame.class.getResource("Image Not
Found.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString());

}
```

Previous Button Code

```java
try

{

if(rs.previous()==false)

rs.first();

jTextField1.setText(rs.getString("Name"));

jTextField2.setText(rs.getString("Colour"));
```

```java
jTextField3.setText(rs.getString("Gender"));

jTextField4.setText(rs.getString("Price"));


java.net.URL imageURL=NewJFrame.class.getResource(jTextField1.getText()+
".jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);

}

catch(NullPointerException npe){


java.net.URL imageURL=NewJFrame.class.getResource("Image Not
Found.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel1.getWidth(),jLabel1.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel1.setIcon(i);}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString());

}
```

Buy Button Code

```java
String info[]=new String[1];

info[0]=jTextField10.getText();

NewJFrame9.main(info);

this.setVisible(false);
```

Calculate Button Code

```java
double discount=0,netamount,discountamt,amount;

amount=Double.parseDouble(jTextField4.getText());

jTextField8.setText(""+amount);




String voucher;

if(jRadioButton1.isSelected()==true) {

discount=discount+2;

} else if (jRadioButton2.isSelected()==true) {

discount=discount+1;

} else if (jRadioButton3.isSelected()==true) {

discount=discount+1.5;

}

voucher=jTextField11.getText();

if(voucher.equals("Disc")) {

discount=discount+2;

}

discountamt=amount*(discount/100);

jTextField9.setText("" +discount);
```

netamount=amount-discountamt;

jTextField10.setText(""+netamount);

JFrame8

Import Statements

Same as import statements given above.

Global Variables

Same as global variables given above.

Form Component Shown

```
try
{
Class.forName("java.sql.DriverManager");cn=DriverManager.getConnection("jdbc:mysql://localhost:3306/project1","root","3333333");

sql="select * from user;";

st=cn.createStatement();

rs=st.executeQuery(sql);

rs.next();


jTextField1.setText(rs.getString("f_name"));

jTextField2.setText(rs.getString("s_name"));

jTextField3.setText(rs.getString("age"));

}
```

```java
catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString());

}


java.net.URL imageURL=NewJFrame2.class.getResource("Register.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();

im=im.getScaledInstance(jLabel4.getWidth(),jLabel4.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel4.setIcon(i);
```

Add Button Code

```java
try

{

int ans=0;

ans=JOptionPane.showConfirmDialog(null,"Do you want to add this record","
Details",JOptionPane.YES_NO_OPTION);

if(ans==JOptionPane.YES_OPTION)

{

sql="insert into user values" + "('" +jTextField1.getText()+"','"
+jTextField2.getText()+"','"+jTextField3.getText()+"');";

st=cn.createStatement();

st.executeUpdate(sql);

sql="select * from user";

st=cn.createStatement();
```

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```
st.executeQuery(sql);

rs.next();

JOptionPane.showMessageDialog(null,"Record Added");

}

}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,e.toString());

}
```

Buy More Button Code

```
this.setVisible(false);

NewJFrame3 f3=new NewJFrame3();

f3.setVisible(true);
```

JFrame9

Import Statements

Same as import statements given above.

Form Component Shown

```
java.net.URL imageURL=NewJFrame2.class.getResource("Bill.jpg");

ImageIcon i=new ImageIcon(imageURL);

Image im=i.getImage();
```

```
im=im.getScaledInstance(jLabel3.getWidth(),jLabel3.getHeight(),Image.SCALE_
DEFAULT);

i.setImage(im);

jLabel3.setIcon(i);
```

Exit Button Code

```
System.exit(0);
```

Buy More Button Code

```
this.setVisible(false);

NewJFrame f1=new NewJFrame();

f1.setVisible(true);
```

Register Button Code

```
this.setVisible(false);

NewJFrame8 f8=new NewJFrame8();

f8.setVisible(true);
```

USER DOCUMENTATION
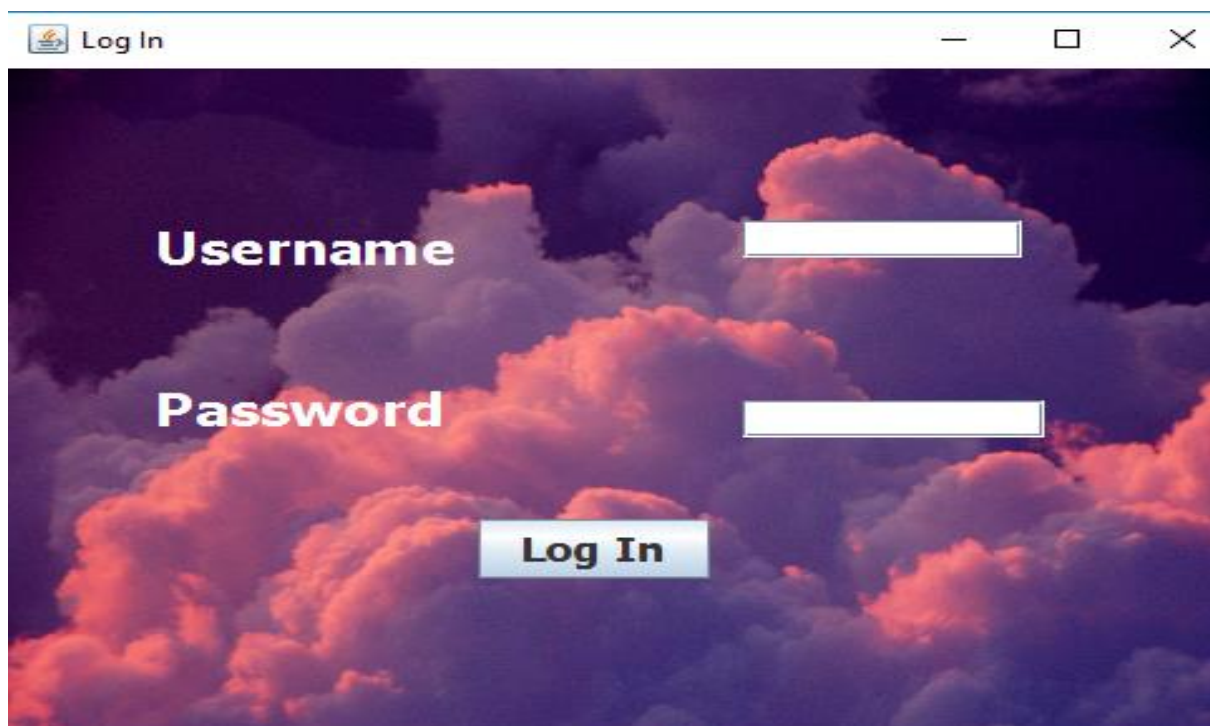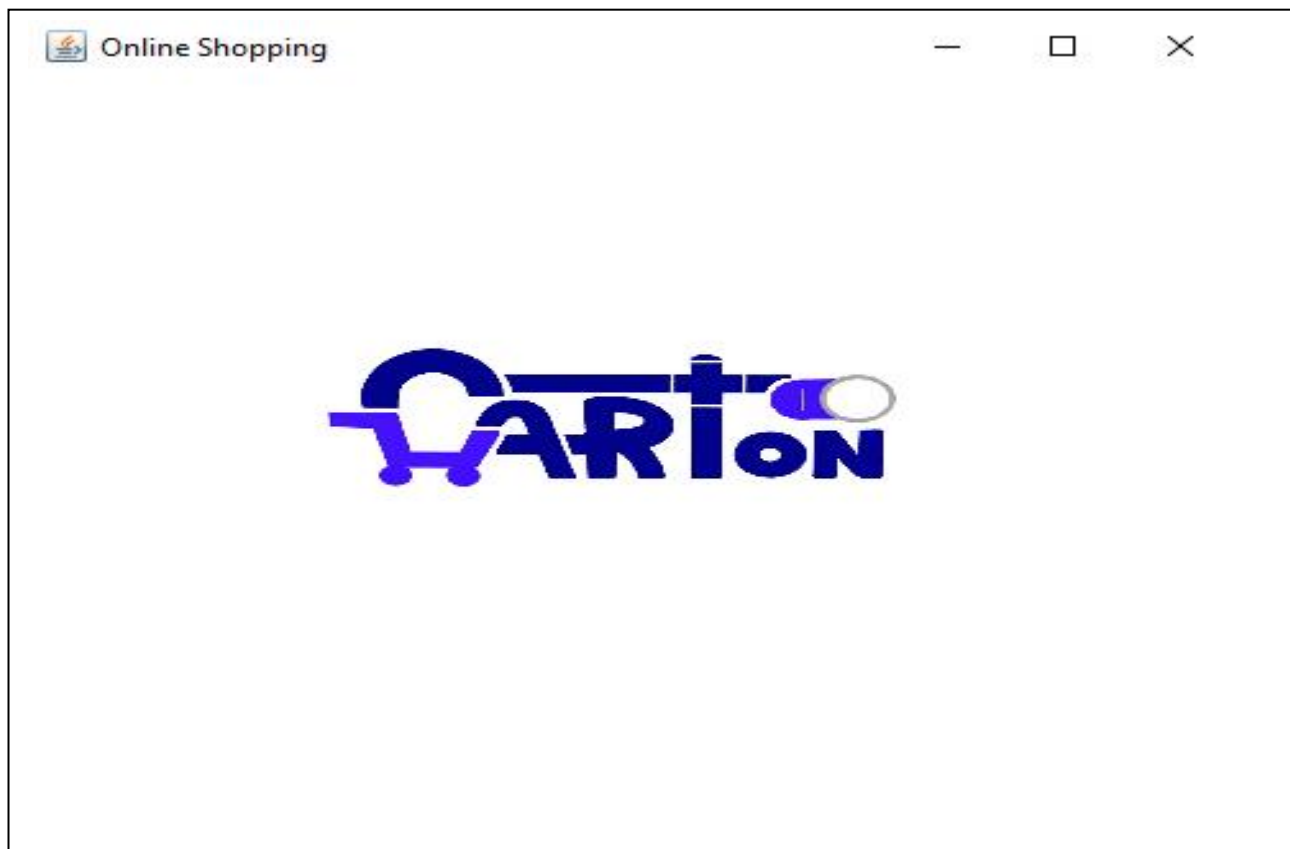
Log in Button

Log in button allows the user to log in to the page.
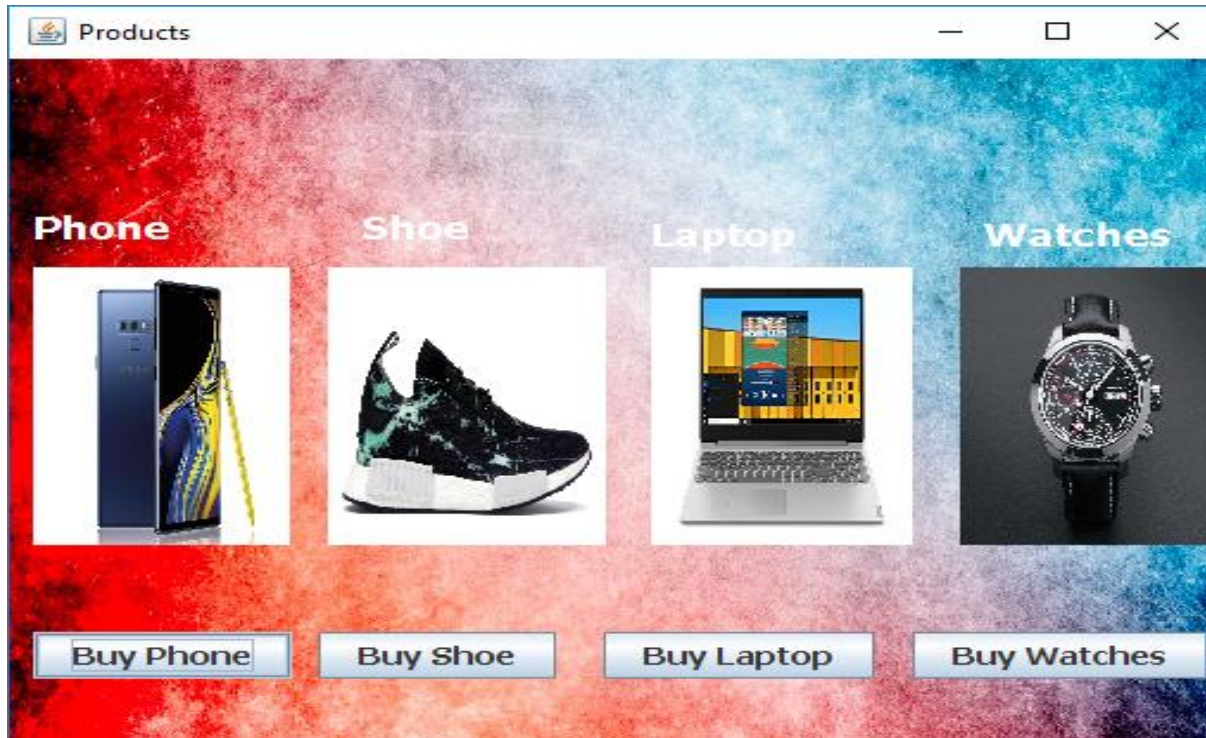
Buy Phone Button

Buy Phone button allows a user to view and purchase a phone

Buy Shoe Button

Buy Shoe button allows a user to view and purchase a shoe.

Buy Laptop Button

Buy Laptop button allows a user to view and purchase a laptop.

Buy Watches Button

Buy Watches button allows a user to view and purchase a watches

Shoes window showing:
- Name: Jordan 1 Retro High Travis Scott
- Brand: Nike
- Color: Nuetrals
- Gender: Male
- Price (AED): 9714

Buttons: First, Last, Next, Previous

Right panel: Amount, Discount, Net Amount, Cash, Credit Card, Cheque, Voucher, Calculate, Buy

Phones window showing:
- Name: HP 15-da0000ne
- Brand: i5
- Intel: HP
- Ram: 4
- Screen Size: 15.6
- Storage: 1TB
- Price: 1399

Buttons: First, Next, Last, Previous

Right panel: Amount, Discount, Net Amount, Cash, Credit Card, Cheque, Voucher Code, Calculate, Buy

First Button

First button allows us to navigate to the first product.

Previous Button

Previous button allows us to navigate to the previous product.

Next Button

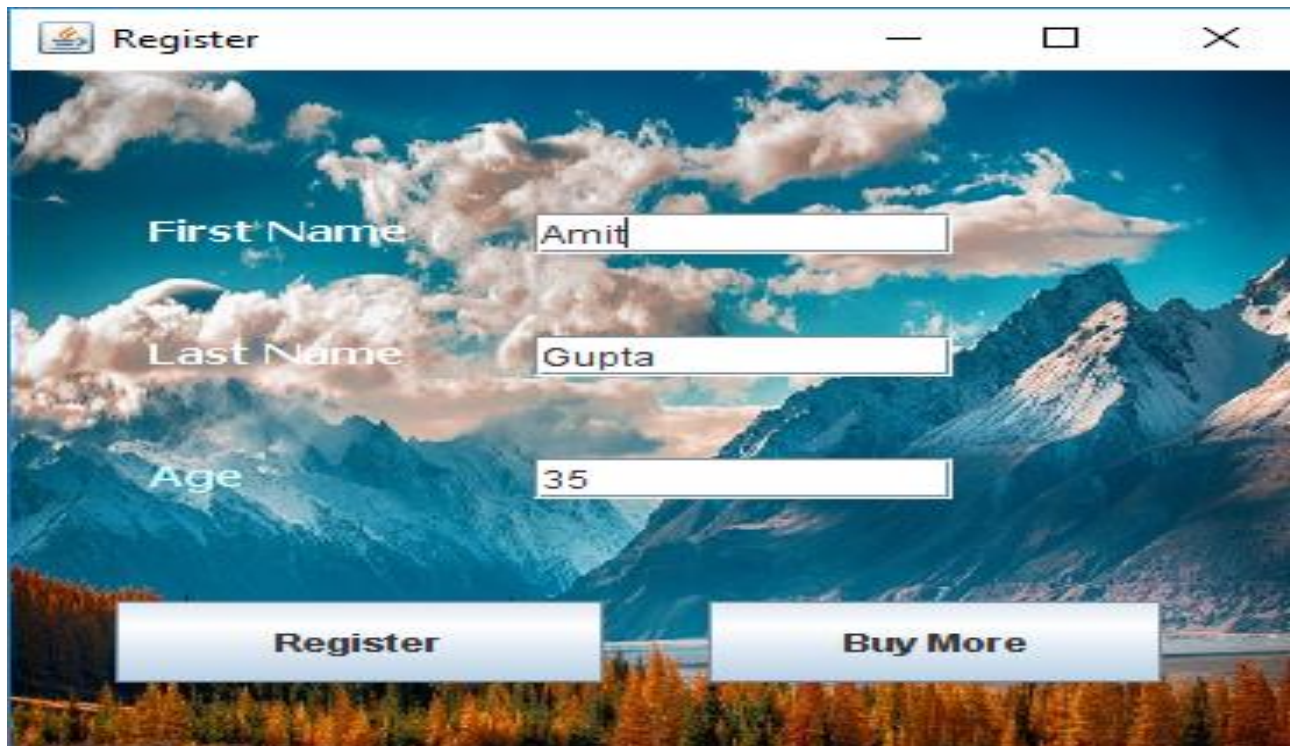**Next button allows us to navigate to the next product.**

Last Button

Last button allows us to navigate to the last product.

Calculate Button

Calculate button allows us to calculate the bill.

Buy Button

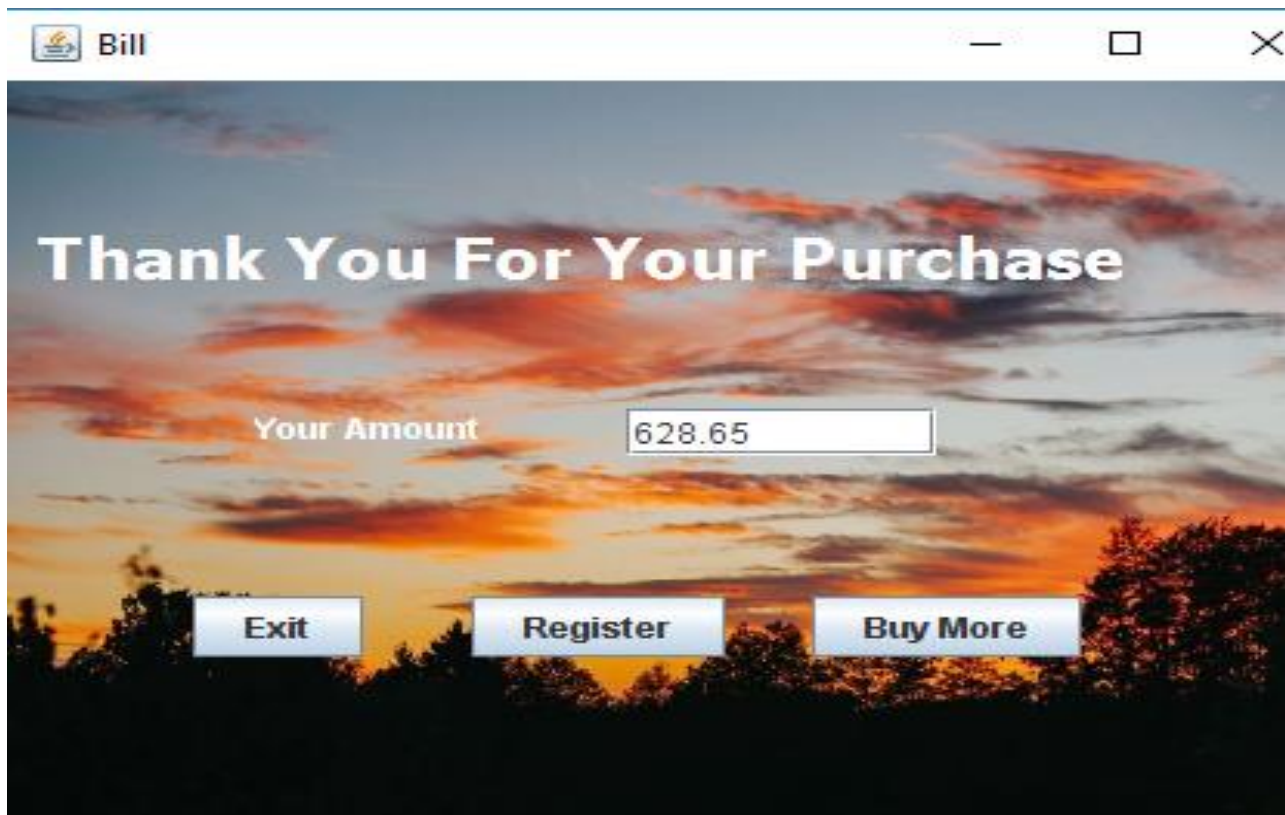**Buy button allows us to purchase the current product.**

Register Button

Register Button allows user to add his/her details in the program.

Buy More Button

Buy More button allows the user to buy more items by redirecting the frame to the log in page (Jframe2).

Exit Button

Close button allows us to exit the application.

Buy More Button

Buy More button allows the user to buy more items by redirecting the frame to the item selection page (Jframe3).

Register Button

Register button redirects the frame to the register frame(Jframe8) allowing user to register his/her details in the program.

ONLINE HELP

In case of any problem encountered during the running of this program, please contact me:

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