SUPER MARKET BILLING

PROJECT DONE BY:

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IMPORT segment

- import java.awt.event.*;
- import javax.swing.*;
- import java.util.*;

Declaration and Mapping

- public class ShoppingBill extends JFrame implements ActionListener
- {
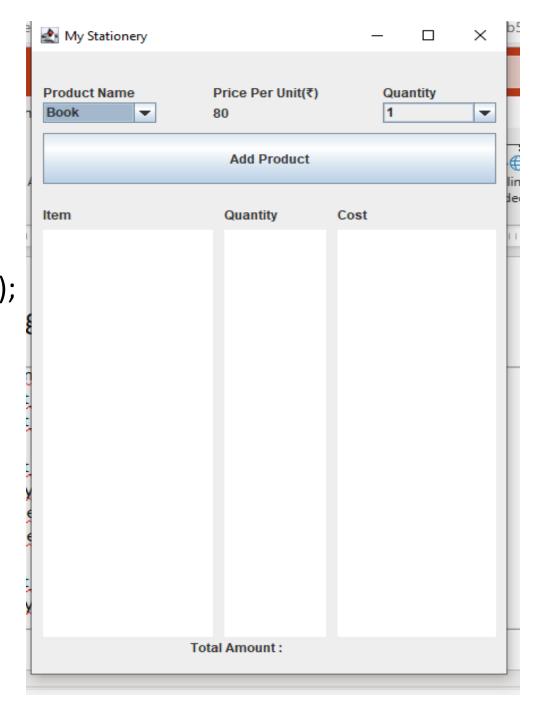-   HashMap<String, String> product_and_price;
-
-    DefaultListModel<String> product_name_bill, product_quantity_bill,product_price_bill;
-
-    JLabel product_name, price_per_unit, quantity_label, price_of_product, price_per_unit_label, total, total_amount, bill_product, bill_quantity, bill_price;
-    JComboBox product_list, quantity_list;
-    JList product_bill, product_quantity, product_price;
-    JButton add_product;

Mapping

- public ShoppingBill()
- {
- product_and_price = new HashMap<String, String>();
-
- product_and_price.put("Book", "80");
- product_and_price.put("Pen", "10");
- product_and_price.put("Pencil", "7");
- product_and_price.put("Marker", "40");
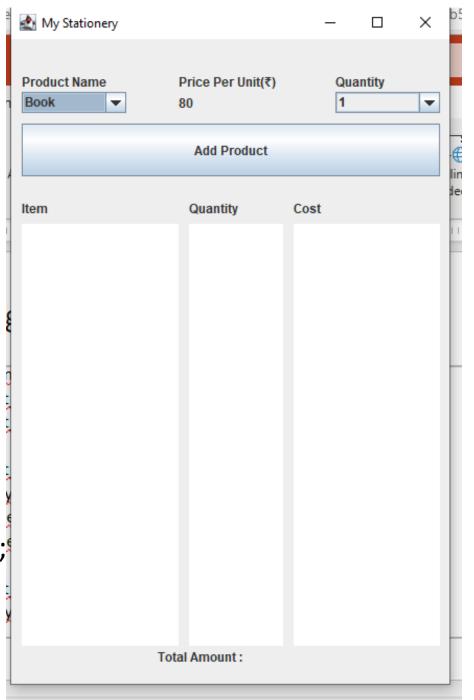- product_and_price.put("Eraser", "5");

Widget creation (INPUT)

- product_name_bill = new DefaultListModel<>();
-     product_price_bill = new DefaultListModel<>();
-     product_quantity_bill = new DefaultListModel<>();
-
-     product_name = new JLabel("Product Name");
-     quantity_label = new JLabel("Quantity");
-     price_per_unit = new JLabel("Price Per Unit(₹)");
-     price_per_unit_label = new JLabel("80");
-
-     product_list = new JComboBox();
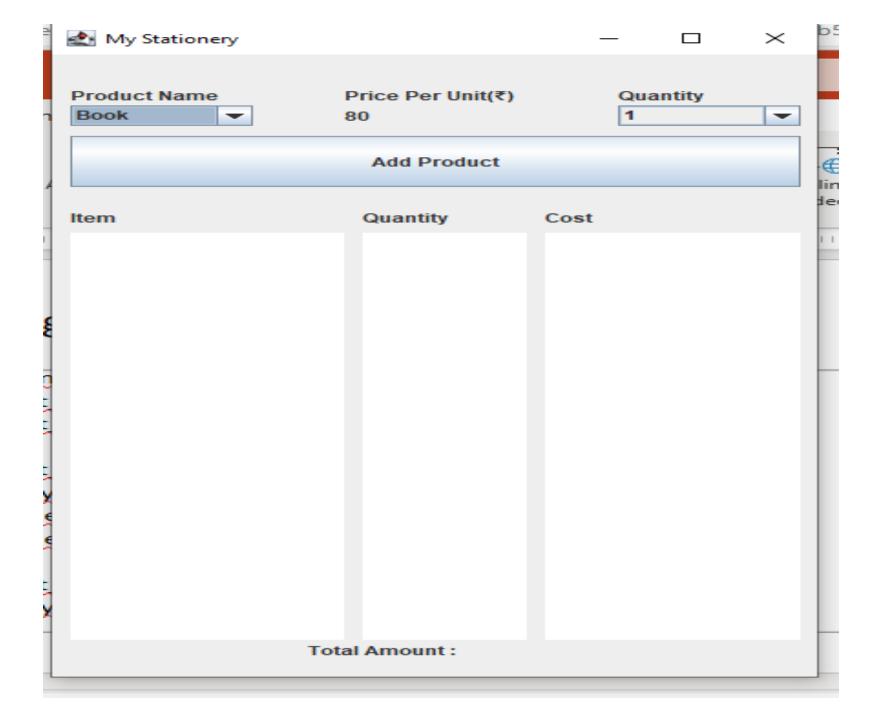-   quantity_list = new JComboBox();

WIDGET creation (OUTPUT)

- for(int i=1; i<=10; i++)
- {
- quantity_list.addItem(Integer.toString(i));
- }
- bill_product = new JLabel("Item");
- bill_quantity = new JLabel("Quantity");
- bill_price = new JLabel("Cost");
- product_bill = new JList(product_name_bill);
- product_price = new JList(product_price_bill);
- product_quantity = new JList(product_quantity_bill);
- add_product = new JButton("Add Product");
- total = new JLabel("Total Amount : ");
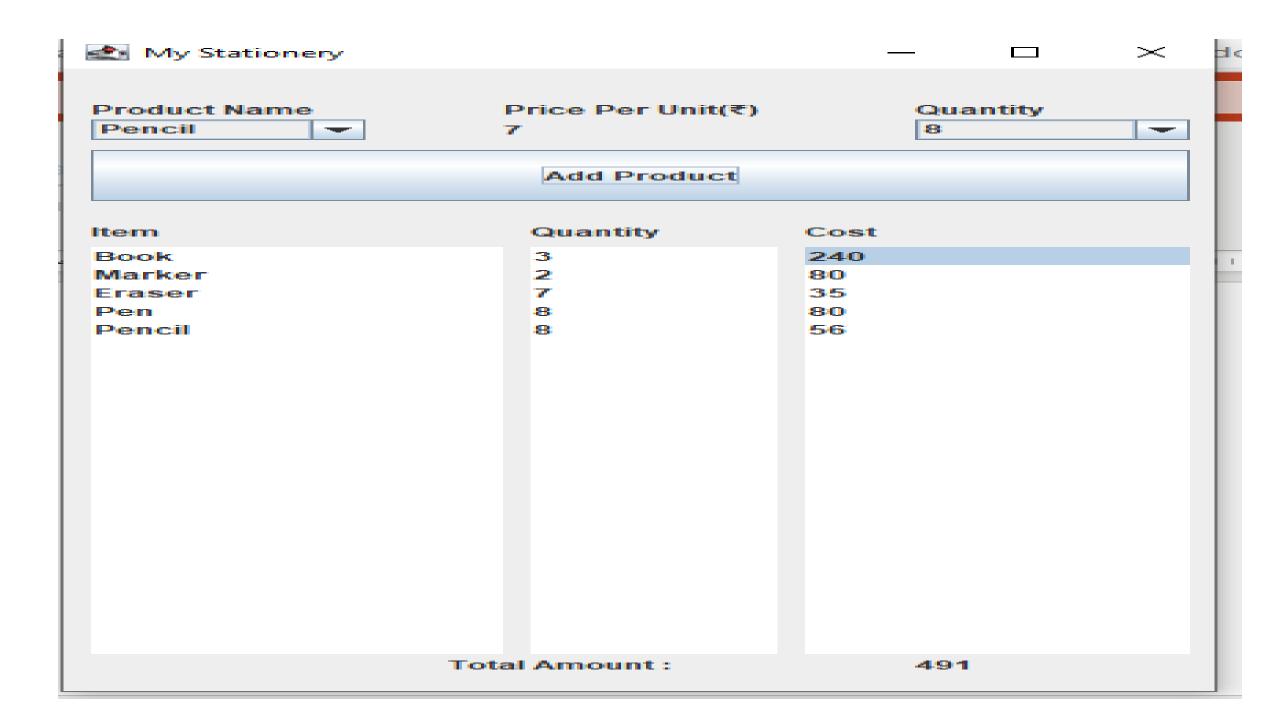- total_amount = new JLabel()

LAYOUT CREATION

- product_name.setBounds(10, 30, 100, 20);
- price_per_unit.setBounds(160, 30, 100, 20);
- quantity_label.setBounds(310, 30, 100, 20);
- price_per_unit_label.setBounds(160, 50, 100, 20)
- product_list.setBounds(10, 50, 100, 20);
- quantity_list.setBounds(310, 50, 100, 20);
- add_product.setBounds(10, 80, 400, 50);
- bill_product.setBounds(10, 150, 150, 20);
- bill_quantity.setBounds(170, 150, 90, 20);
- bill_price.setBounds(270, 150, 140, 20);
- product_bill.setBounds(10, 175, 150, 400);
- product_quantity.setBounds(170, 175, 90, 400);
- product_price.setBounds(270, 175, 140, 400)
- total.setBounds(140, 575, 200, 20);
- total_amount.setBounds(310, 575, 90, 20);

- add(product_name);
- add(price_per_unit);
- add(quantity_label);
- add(price_per_unit_label);
- add(product_list);
- add(quantity_list);
- add(add_product);
- add(bill_product);
- add(bill_quantity);
- add(bill_price);
- add(product_bill);
- add(product_quantity);
- add(product_price);
- add(total);
- add(total_amount);
- product_list.addActionListener(this);
- add_product.addActionListener(this);
- setSize(435,650);
- setLayout(null);
- setVisible(true);
- setTitle("My Stationery");
- setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
- }

Product Name

Book

Price Per Unit(₹)

80

Quantity

1

Add Product

Item	Quantity	Cost

Total Amount :

ACTION EVENT

```java
public void actionPerformed(ActionEvent e)

{

    if(e.getSource()==add_product)

    {

        product_name_bill.addElement((String) product_list.getSelectedItem());

        product_quantity_bill.addElement((String) quantity_list.getSelectedItem());

        int unit_price = Integer.parseInt(product_and_price.get(product_list.getSelectedItem()));

        int product_quantity = Integer.parseInt((String) quantity_list.getSelectedItem());

        int total_for_product = unit_price*product_quantity;

        int total_cost = 0;

        product_price_bill.addElement(Integer.toString(total_for_product));

        for(int i=0;i<product_price_bill.getSize();i++)

        { total_cost += Integer.parseInt(product_price_bill.getElementAt(i)) }

        total_amount.setText(Integer.toString(total_cost));

    } }
```

My Stationery

Product Name
Pencil ▼

Price Per Unit(₹)
7

Quantity
8 ▼

Add Product

Item	Quantity	Cost
Book	3	240
Marker	2	80
Eraser	7	35
Pen	8	80
Pencil	8	56

Total Amount :   491

THANK YOU