STOCK MANAGEMENT SYSTEM

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Summary

- An inventory stock management system manages the stock system of any organization.
- It processes and stores stock **inflow and outflow**.
- This task if carried out manually will be **tedious and includes chances of mistakes**.
- Thus, this system reduces manual work to a great extent and allows a smooth flow of **stock managing and data storing activities by removing chances of errors in the details.**
- There are four Modules: Product, Vendor, Purchase and Sales

Introduction

The management of Stock in any inventory is very tedious and complicated. The manager has to have information of each and every product that comes in and goes out with very precise details like who purchased what and in what quantity same goes for Company's purchase also and without any fail. So, I developed this Inventory Management System App which is quite simple to understand and work on yet very robust in handling the data.

I created the Inventory Management System App by using Java as a language and MySql for Database with xampp server and Netbeans ide.

The First dashboard is the Main Dashboard, where there are 4 options viz Vendor, Product, Purchase and Sales.

In Vendor Dashboard, all the details of vendors are to be filled.

In Product Dashboard, all the details of Products are to be filled.

In Purchase Dashboard, all the details of Purchase that company does are to be filled.

In Sales Dashboard, all the details of Sales that companies does are to be filled.

Tools used

Apache netbeans

Core language

Java is a **programming language** and a **platform**. Java is a high level, robust, object-oriented and secure programming language.

Java was developed by Sun Microsystems (which is now the subsidiary of Oracle) in the year 1995. James Gosling is known as the father of Java. Before Java, its name was Oak. Since Oak was already a registered company, so James Gosling and his team changed the name from Oak to Java.

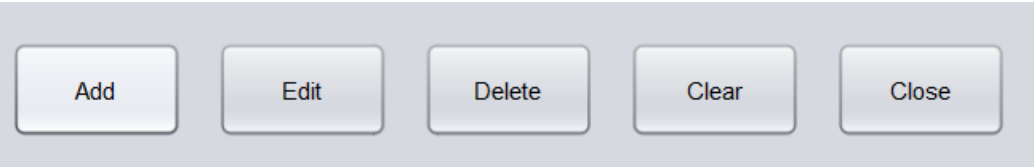
The main Function used In java :-

Java swing

The javax.swing package provides classes for java swing API such as JButton, JTextField, JTextArea, JRadioButton, JCheckbox, JMenu, JColorChooser etc.

Java jbutton

The JButton class is used to create a labeled button that has platform independent implementation. The application result in some action when the button is pushed. It inherits AbstractButton class.



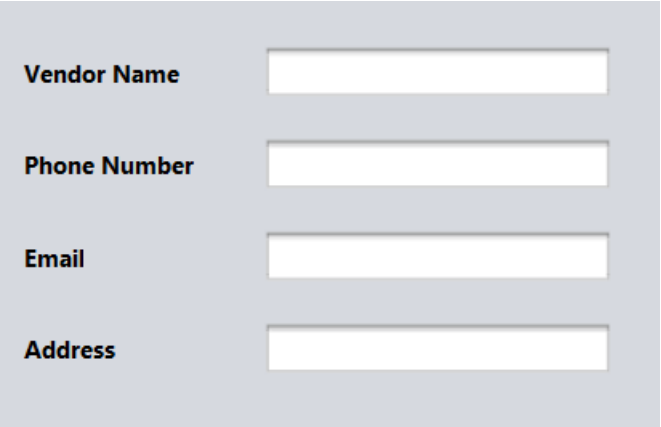
Java jlabel

The object of JLabel class is a component for placing text in a container. It is used to display a single line of read only text. The text can be changed by an

application but a user cannot edit it directly. It inherits JComponent class.

Java jtextfield

The object of a JTextField class is a text component that allows the editing of a single line text. It inherits JTextComponent class.



Java JPanel

The JPanel is a simplest container class. It provides space in which an application can attach any other component. It inherits the JComponents class.

It doesn't have title bar.

Java JFrame

The javax.swing.JFrame class is a type of container which inherits the java.awt.Frame class. JFrame works like the main window where components like labels, buttons, textfields are added to create a GUI.

Unlike Frame, JFrame has the option to hide or close the window with the help of setDefaultCloseOperation(int) method.

Java Action Listener interface

The Java Action Listener is notified whenever you click on the button or menu item. It is notified against Action Event. The Action Listener interface is found in java.awt.event package. It has only one method: action Performed().

Java mouse Listener interface

The Java MouseListener is notified whenever you change the state of mouse. It is notified against MouseEvent. The MouseListener interface is found in java.awt.event package. It has five methods.

Java Layout manager

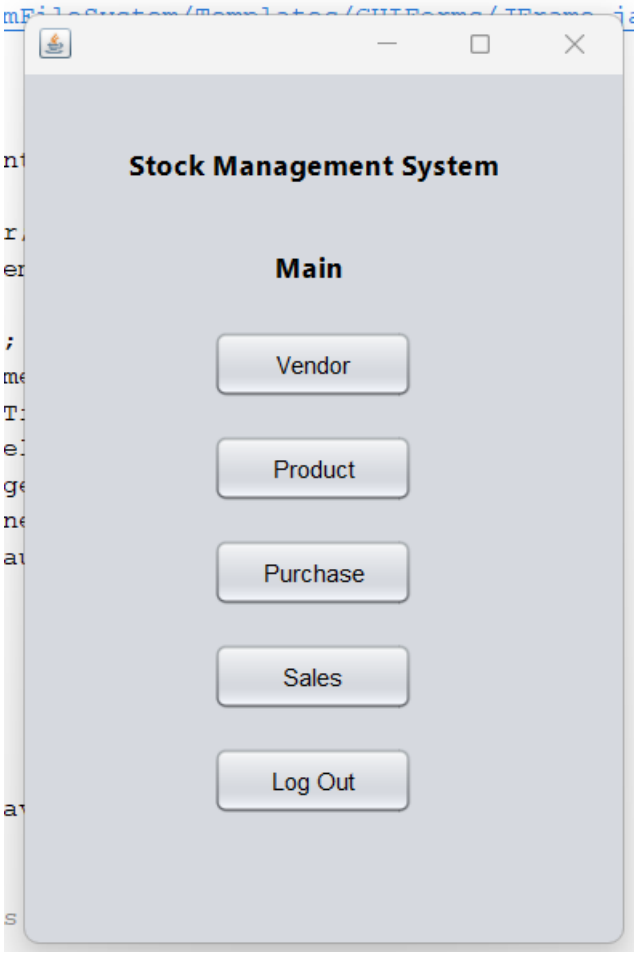
The LayoutManagers are used to arrange components in a particular manner. The **Java LayoutManagers** facilitates us to control the positioning and size of the components in GUI forms. LayoutManager is an interface that is implemented by all the classes of layout managers. There are the following classes that represent the layout managers:

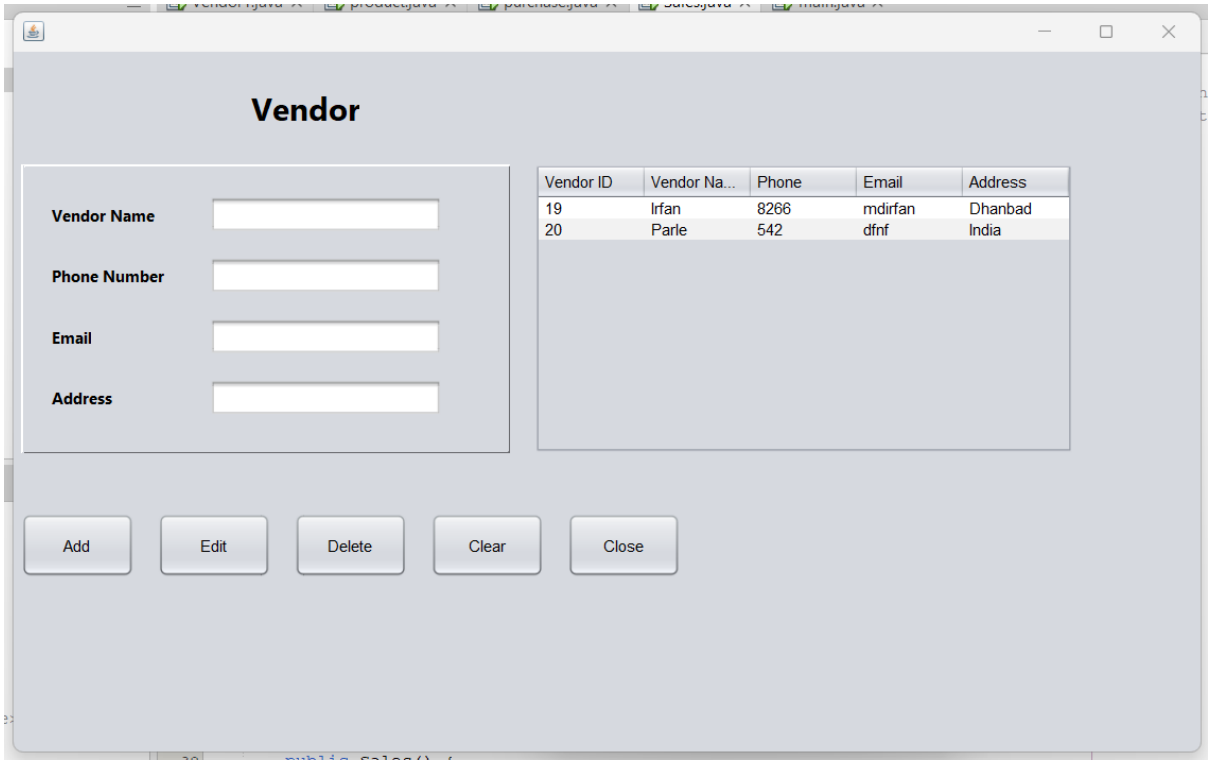
1. java.awt.BorderLayout
2. java.awt.FlowLayout
3. java.awt.GridLayout
4. java.awt.CardLayout
5. java.awt.GridBagLayout
6. javax.swing.BoxLayout
7. javax.swing.GroupLayout
8. javax.swing.ScrollPaneLayout
9. javax.swing.SpringLayout etc.

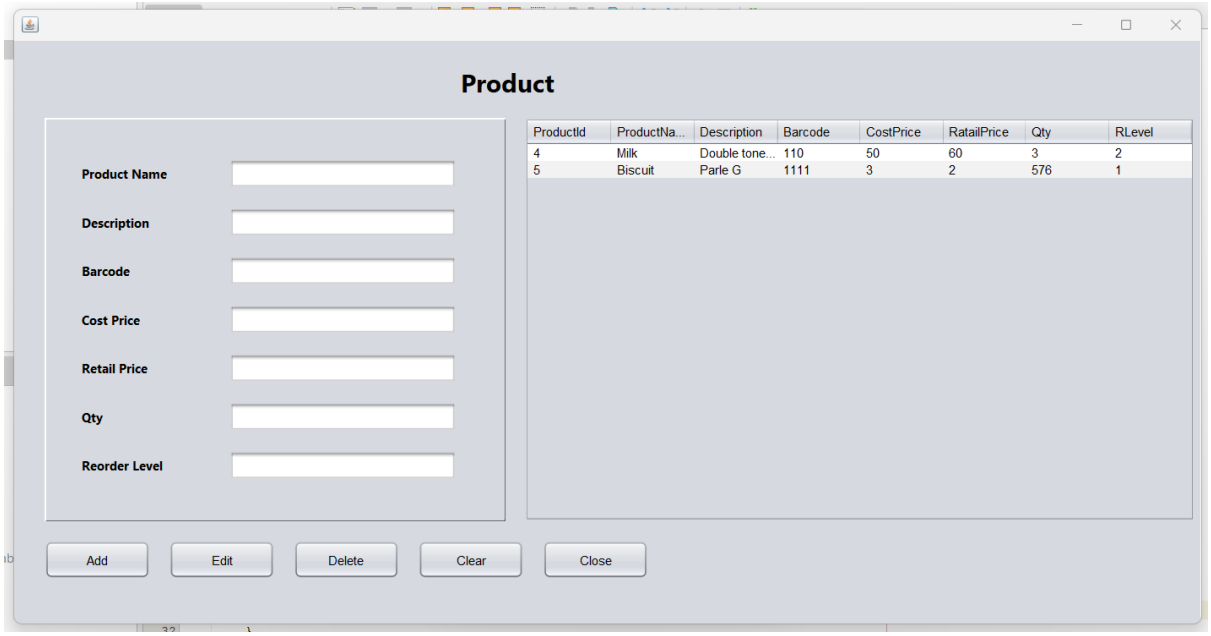
java Date and time

The java.time, java.util, java.sql and java.text packages contains classes for representing date and time. Following classes are important for dealing with date in Java.

Application preview




Vendor
Vendor Name
Phone Number
Email
Address
Vendor ID
Vendor Na...
Phone
Email
Address
19
Irfan
8266
mdirfan
Dhanbad
20
Parle
542
dfnf
India
Add
Edit
Delete
Clear
Close


Product
Product Name
Description
Barcode
Cost Price
Retail Price
Qty
Reorder Level
ProductId
ProductNa...
Description
Barcode
CostPrice
RatailPrice
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RLevel
4
Milk
Double tone...
110
50
60
3
2
5
Biscuit
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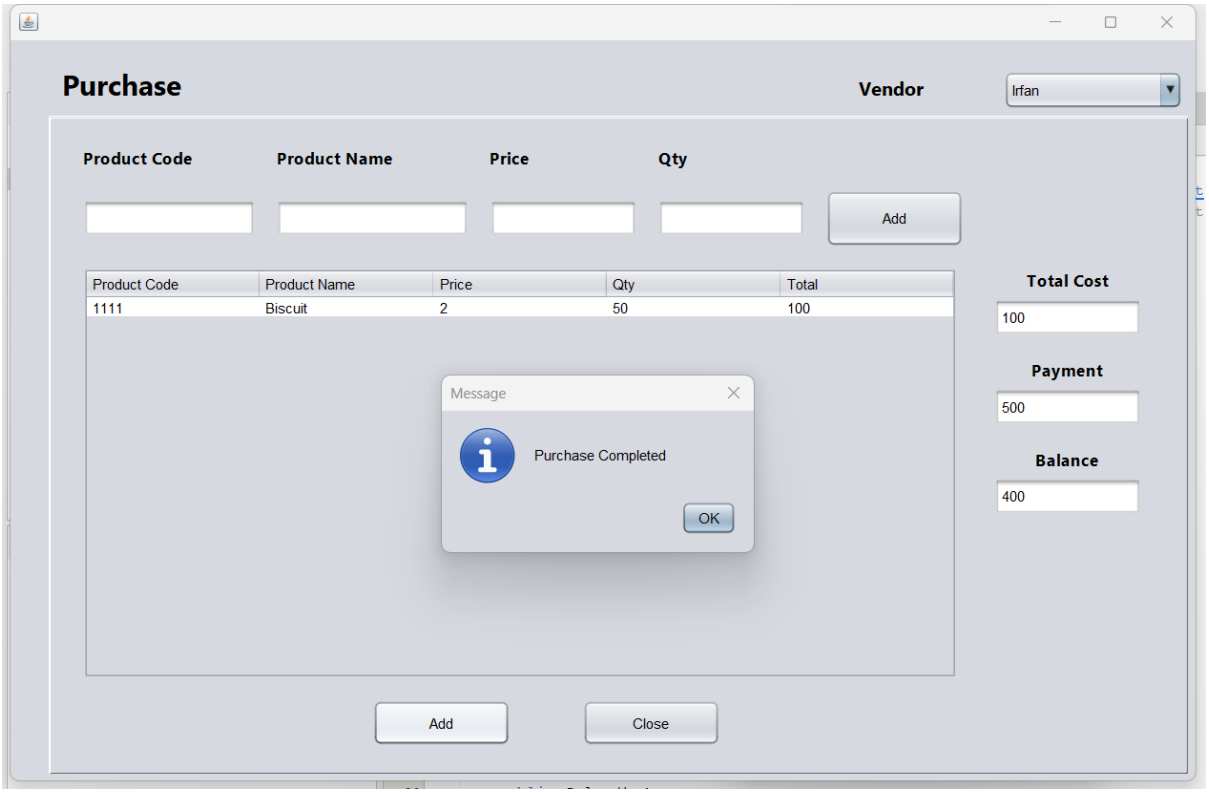
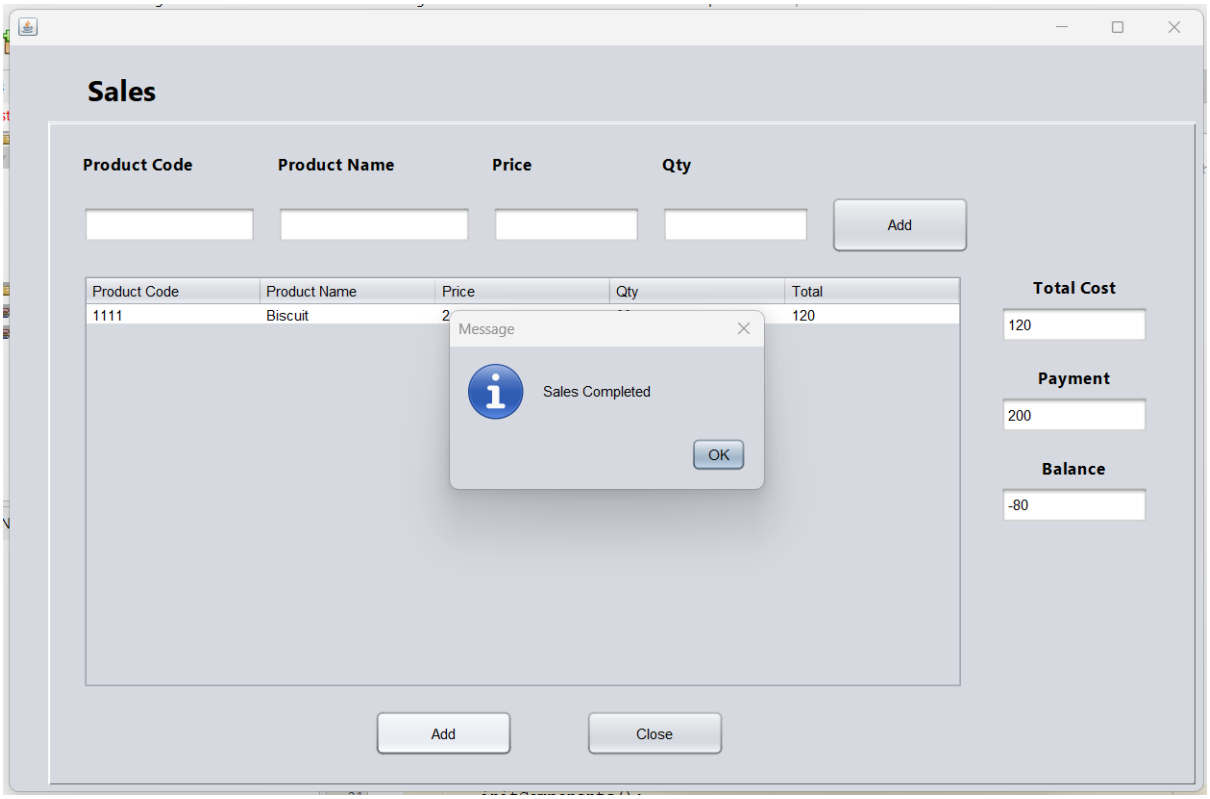
576
1
Add
Edit
Delete
Clear
Close


Purchase
Vendor
Irfan
Product Code
Product Name
Price
Qty
Add
Product Code
Product Name
Price
Qty
Total
1111
Biscuit
2
50
100
Total Cost
100
Payment
500
Balance
400
Message
Purchase Completed
OK
Add
Close


Sales
Product Code
Product Name
Price
Qty
Add
Product Code
Product Name
Price
Qty
Total
1111
Biscuit
120
Total Cost
120
Payment
200
Balance
-80
Message
Sales Completed
OK
Add
Close

Future work

- Receipt Print Out.
- Log-in and Log-out.