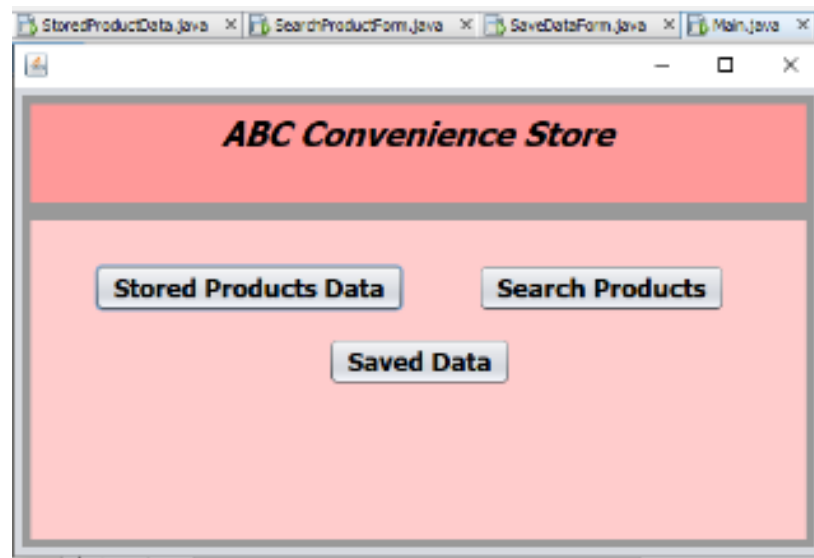
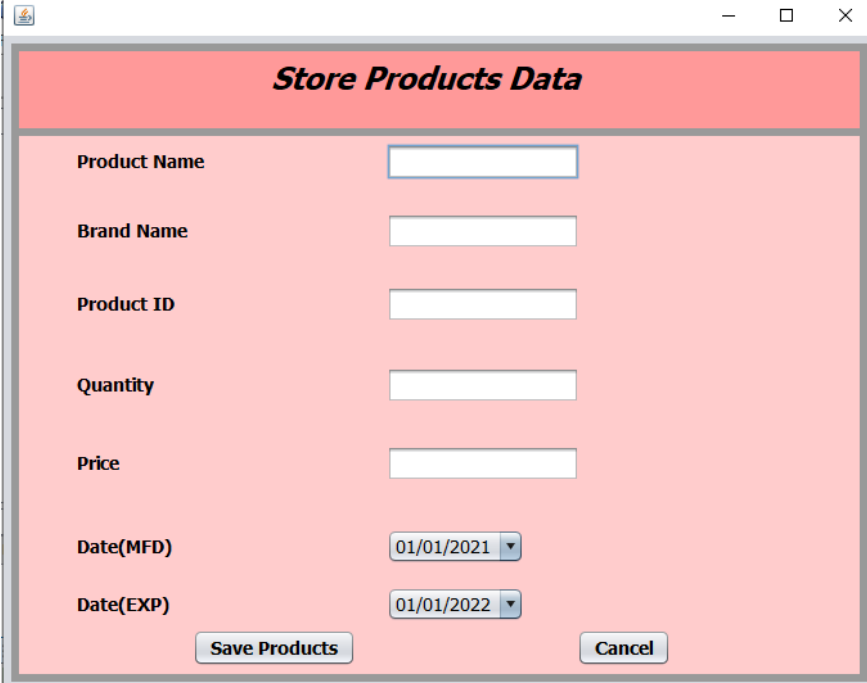


Software Design and Development

Main Form



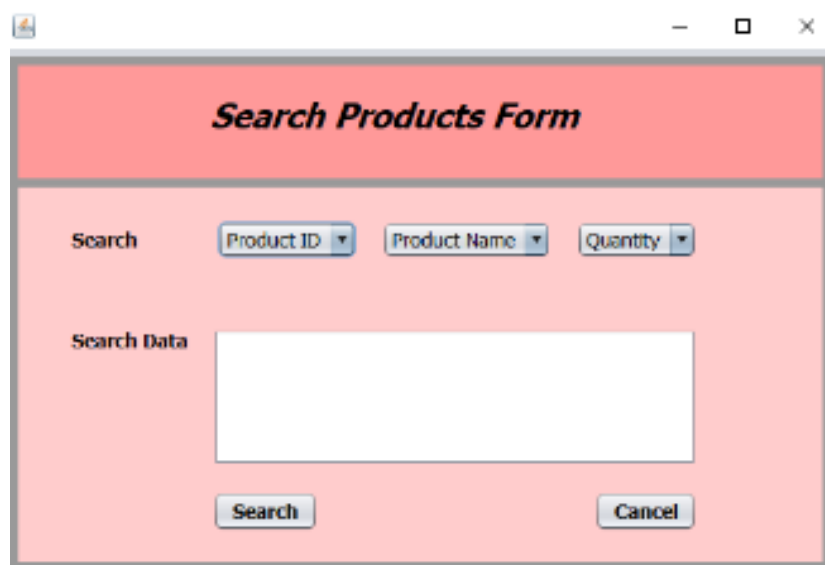
This is Welcome Form ABC Convenience Store home page. There are three buttons which leads to other forms. The very first button called "Stored Products Data" that leads to form which stored product data. Beside that for, there's a form called "Search Product" that leads to form which customers can search the products in store by typing in search area. Last but not least, there is one last form called "Saved Data" that leads to form which show the customers about all the saved products data in the stored.

Store Product Data

Store Products Data

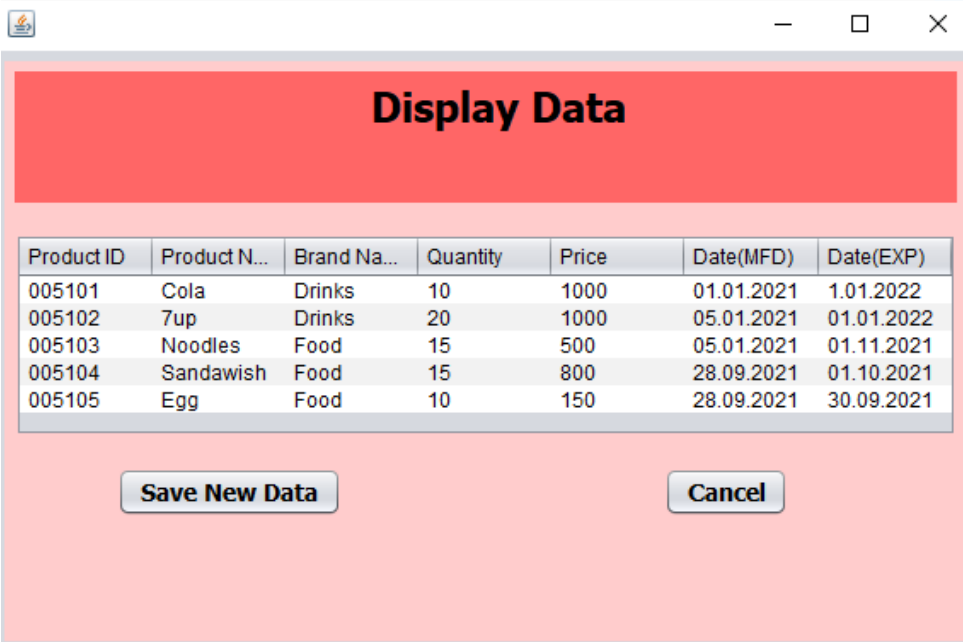
Product Name	<input type="text"/>
Brand Name	<input type="text"/>
Product ID	<input type="text"/>
Quantity	<input type="text"/>
Price	<input type="text"/>
Date(MFD)	<input type="text" value="01/01/2021"/>
Date(EXP)	<input type="text" value="01/01/2022"/>

This is the "Stored Product Data" form. In this form, Customers can save the product by typing the product name, brand name, product ID, quantity, price and dates of (MFD) and (EXP). If customers put the wrong data, they can also cancel it by clicking cancel button and starts again.

Search Products form

The image shows a screenshot of a software window titled "Search Products Form". The window has a light pink background and a grey border. At the top, there is a red header bar with the title "Search Products Form" in bold black text. Below the header, there is a section labeled "Search" with three dropdown menus: "Product ID", "Product Name", and "Quantity". Below these, there is a section labeled "Search Data" with a large white text input box. At the bottom of the form, there are two buttons: "Search" and "Cancel". The window also has standard Windows window controls (minimize, maximize, close) in the top right corner.

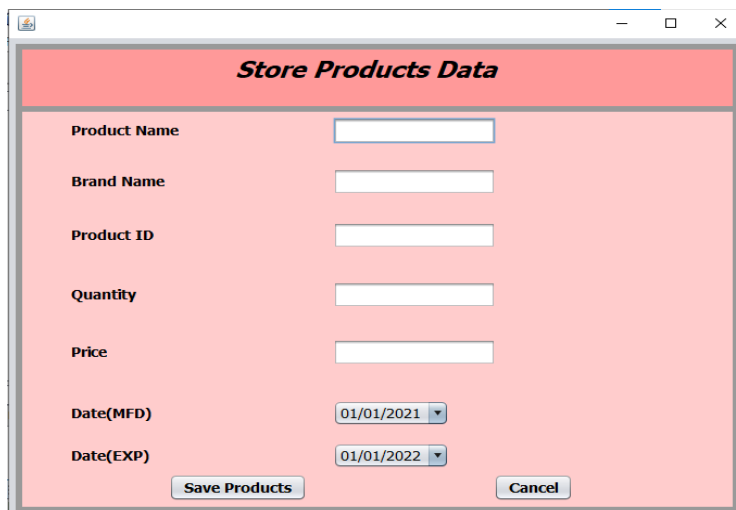
This is "Search Products Form". In this Form, Customers can easily search my choosing the Product ID, Product name and Quantity. If customers want to search by the data, they can search by typing in search data box. Also, if they put wrong input, they can cancel by clicking the cancel button beside the search button and starts again.

Display Data Form

The screenshot shows a software window titled "Display Data" with a red header bar. Below the header is a table with 7 columns: Product ID, Product N..., Brand Na..., Quantity, Price, Date(MFD), and Date(EXP). The table contains 5 rows of data. At the bottom of the window are two buttons: "Save New Data" and "Cancel".

Product ID	Product N...	Brand Na...	Quantity	Price	Date(MFD)	Date(EXP)
005101	Cola	Drinks	10	1000	01.01.2021	1.01.2022
005102	7up	Drinks	20	1000	05.01.2021	01.01.2022
005103	Noodles	Food	15	500	05.01.2021	01.11.2021
005104	Sandawish	Food	15	800	28.09.2021	01.10.2021
005105	Egg	Food	10	150	28.09.2021	30.09.2021

This is "Display Data form". In this form, Customers can see all type of products that sell in the stores. They can even see all details of the products and it's easy to see products details in table.

Stored Products Data

The screenshot shows a software window titled "Store Products Data". The window has a pink header bar with the title. Below the header, there are several input fields arranged in a list: "Product Name", "Brand Name", "Product ID", "Quantity", and "Price". Each of these fields is followed by a small white rectangular input box. Below these fields, there are two date pickers: "Date(MFD)" and "Date(EXP)". The "Date(MFD)" picker shows "01/01/2021" and the "Date(EXP)" picker shows "01/01/2022". At the bottom of the form, there are two buttons: "Save Products" and "Cancel".

The choice of data type customers can use

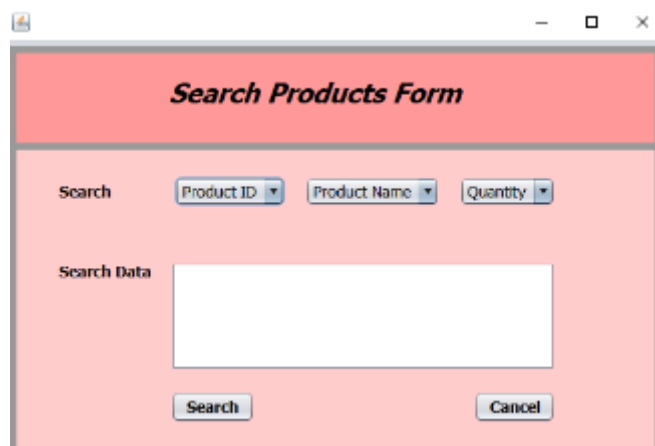
In P6 stored product data, there are 5 blank text areas for customer to type in. Firstly, in the text area for "Product Name" and "Brand Name", customers can type in the character data type which allow them to type both UPPERCASE and lowercase letters. Customers can use both Char data type (which can use only single character, EG; "A" or "B") and String data type (which can use multiple character, EG; "Apple" or "Orange"). In the area for "Product ID" and "Quantity", customers can type in only the number data type which allow them only numbers and they can't type character or anything else. Customers can use 4 types of number data type. They can use Byte-8bits which can only type numbers between 0 to 255, Shorts-16bits which can type numbers till 32,767, Integer-32bits which can type numbers till +2 billion and Long-64 bits which can type numbers till over 4,000 trillion. In the area of "Price", customers can type both Numbers and Decimal data types which allow either numbers and total digits or decimal digits (digits to the right of the decimal point) and also they can't type the character data type or anything else. Customers can use 4 types of number data type like in the area of "Product ID" and "Quantity" and they can also use float-32bits which can type digit price number (For example; Apple= 3.05\$.) or

double-64bits which can type digit price number but in another way. (For example; Orange= 100.03\$.).

Software Structure

When customers type in the "Product Name" and "Brand Name, the coding will work as string because the products in store are more than one character. For the "Products ID" and "Quantity", the coding will work as Integers number data type because ID and quantity of the products in store are 30 numbers maximum usages. For the "Price", the coding will go as both float and double depending on the products in the store prices so we need to get text from in the area of "Price" and differentiate the float data type of price and double data type of price of products in store. Last but not least, if the customers didn't put all the area in form including the "Dates" or customers forget to put all the area in form, their search data will show Error instead of showing the products because there are not enough information to search for the products which means the coding will only works when all the area are filled with available products in store or else it will not work.

Search Products Form



The screenshot shows a window titled "Search Products Form" with a pink background. At the top, the title "Search Products Form" is displayed in bold. Below the title, there is a "Search" section with three dropdown menus: "Product ID", "Product Name", and "Quantity". Below these, there is a "Search Data" section with a large white text input field. At the bottom of the form, there are two buttons: "Search" and "Cancel".

The choice of data type customers can use

In this from, customers can choose "Products ID", "Brand Name" and "Quantity" by choosing between all the products in the store which means they don't need to type in those things to search for stores products in the store. The products are already shown in the checks box so they only need to type in data in "Search Data" area. In the "Search Data" area, customers can type in the "Product Name" or "Price. Customers can type in both character and number or decimal in one at the time. They can't use character and number or decimal at the same but they can search by typing name of the product or price.

Software Structure

When customers type in character, the coding will work as string and show all the product information they were searching for including the product's price and when customers type in number or decimal, the coding will work as both integers and float or double but the app will still show all the product information they were searching for. If customers miss one the filling area, the app will show error and they can't search for the products because they information was wrong. If customers type both character and numbers or decimal data type, the program will not memorize it and the coding will not run the app.

