

This program implemented all the features required, along with all the bonus features, except the product pictures. This project is finished individually.

The database name is Grocery, the script is provided.

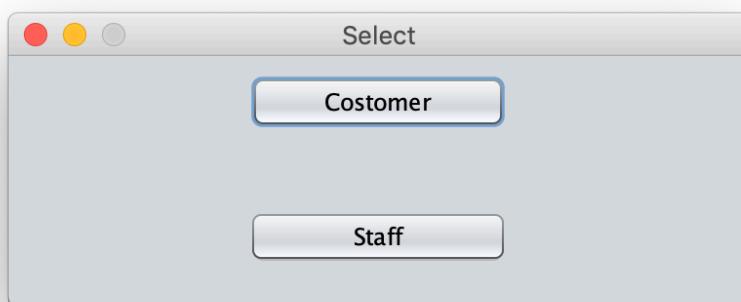
A staff account is added to the database through pgAdmin4, since the program should not provide a portal to sign up a staff account.

For this account, account number is 5, password is 5.

Also, 2 warehouses are added to the database. The supplier relations are also in the database.

Let's start

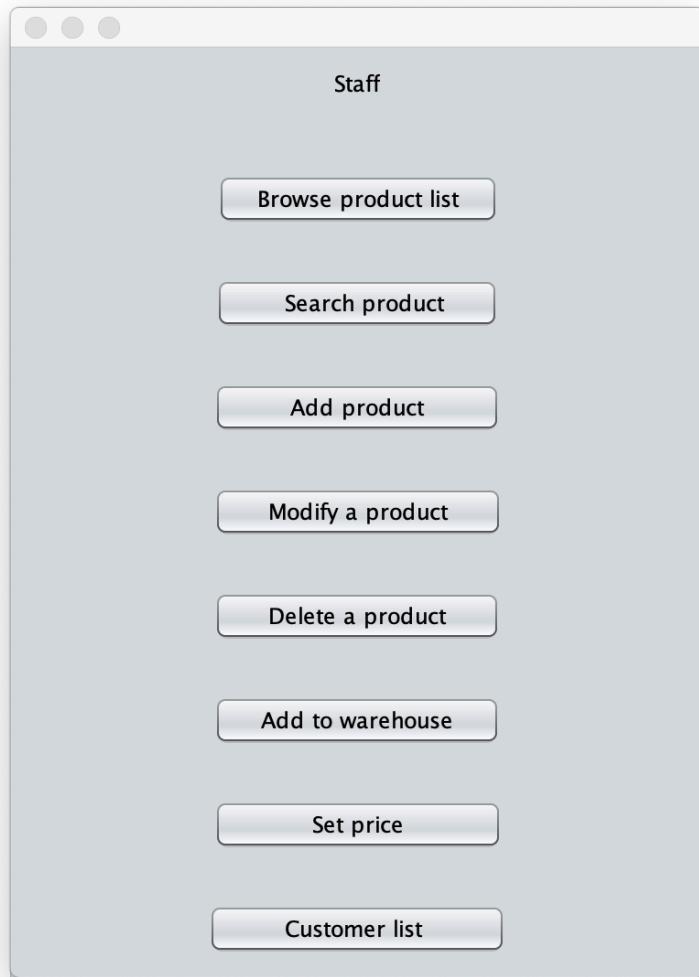
First choose a character. Start with staff.



Then enter account 5, password 5.



Then go into the staff menu



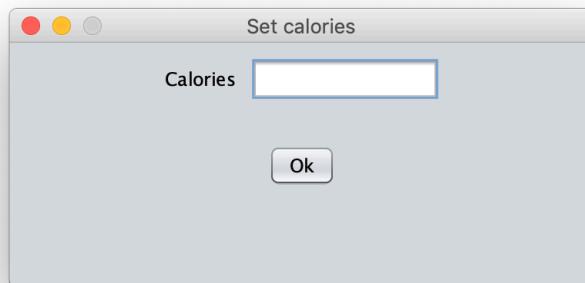
Add product

A screenshot of a Mac OS X-style "Add Product" dialog box. It has three text input fields: "Name" containing "banana", "Category" containing "food", and "Size" containing "1". Below the inputs is an "Add" button.

Added



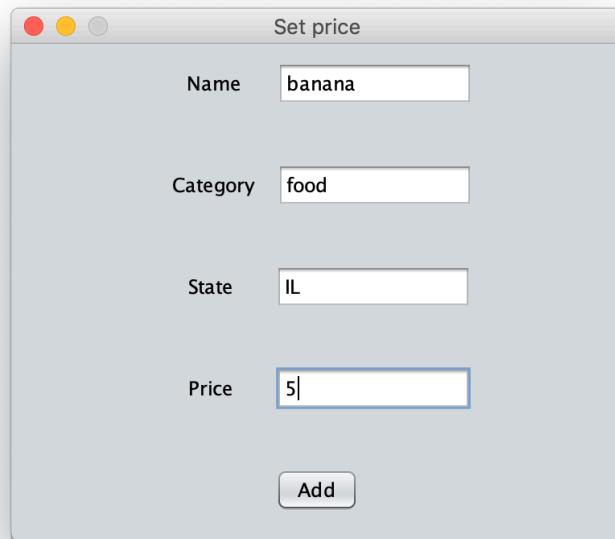
If it's food, the program will ask user to input calories. Similar for drink, user will need to enter alcohol content.



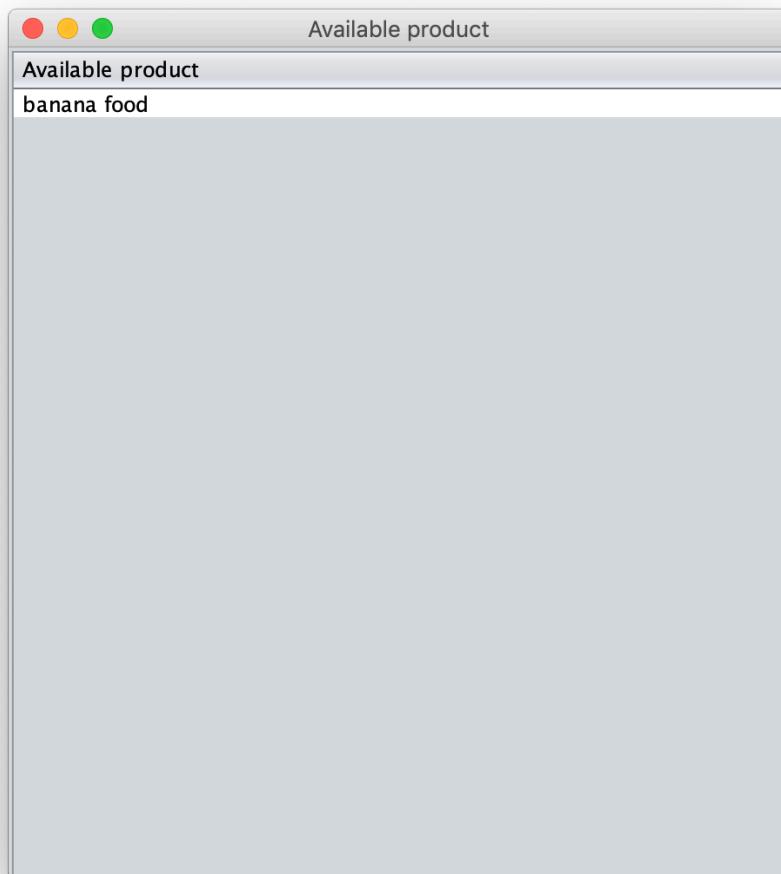
Then add this product to warehouse



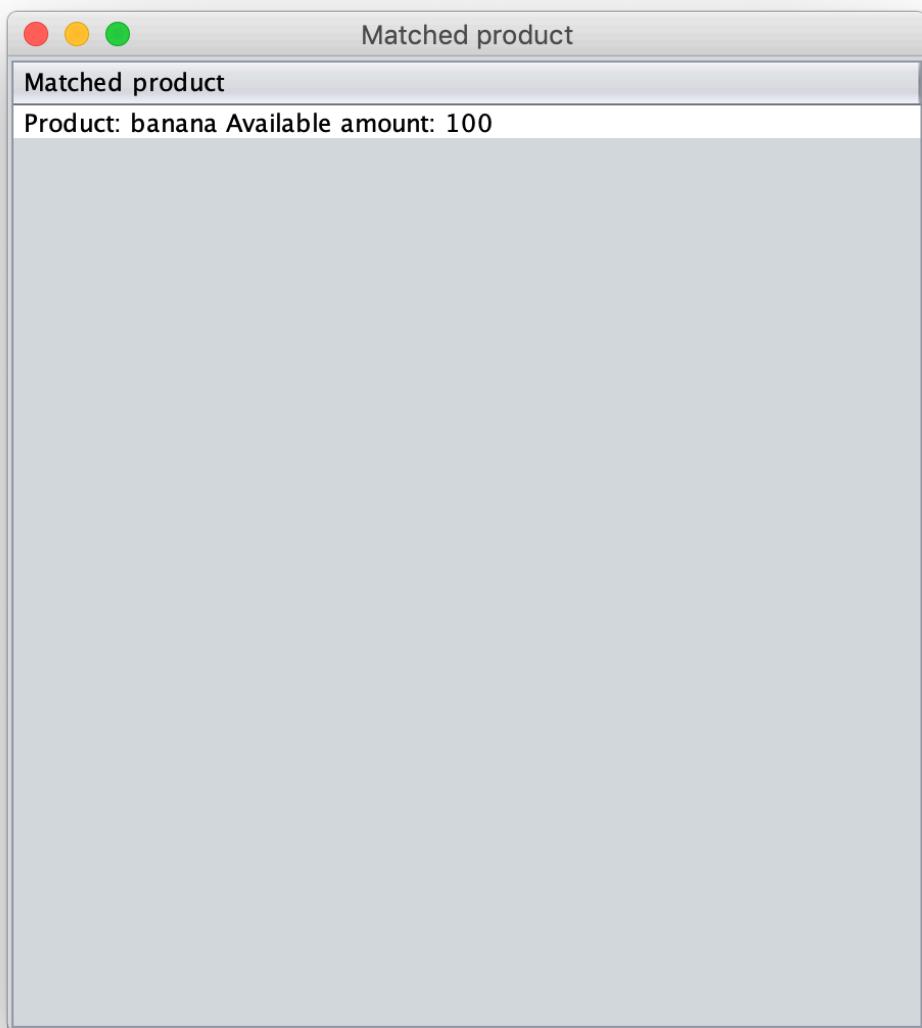
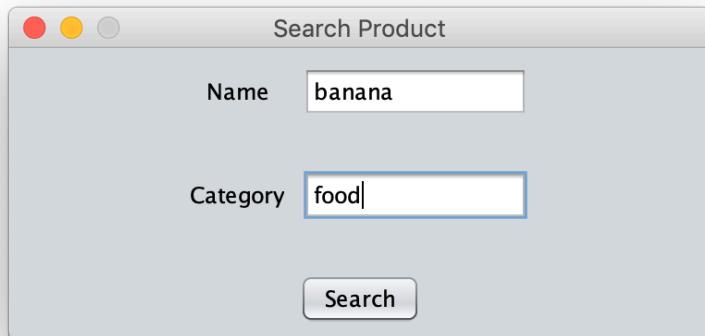
Then set price, the price varies between different states.



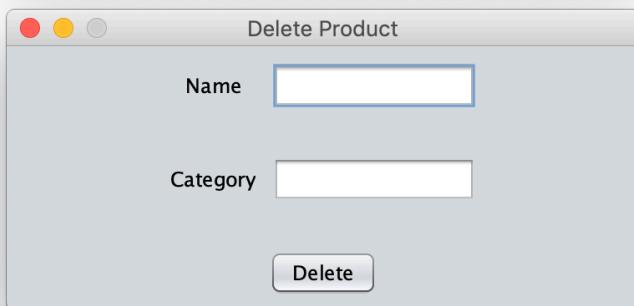
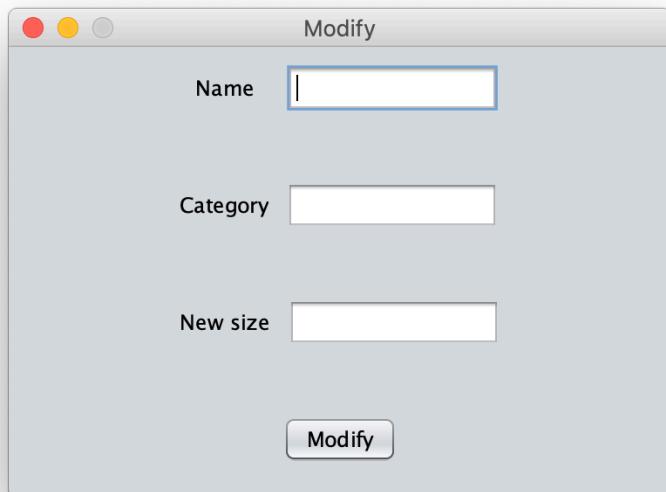
We can browse all the products



Also we can search the product



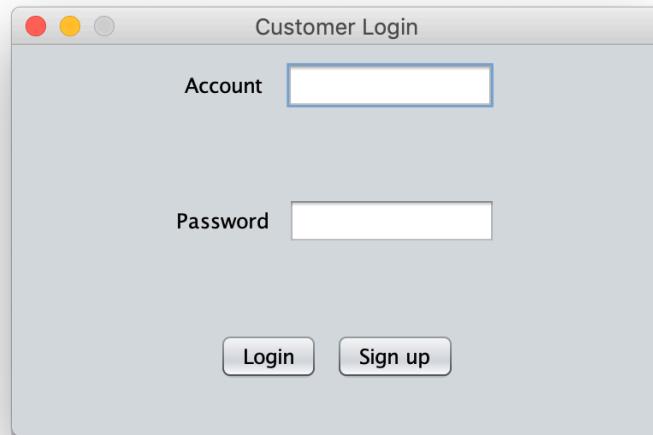
Modify and delete are also working well.



If there is not enough space in the warehouse, the program will show a message. The product will not be added to the warehouse.



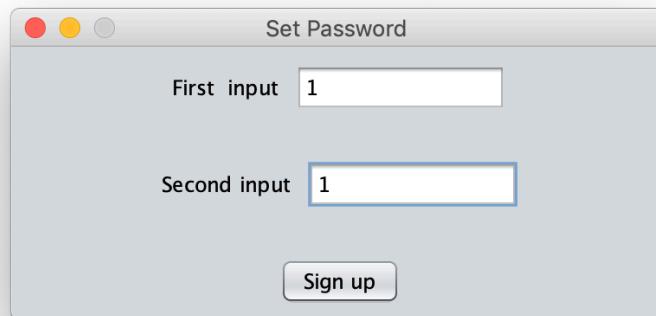
Then we login as a customer



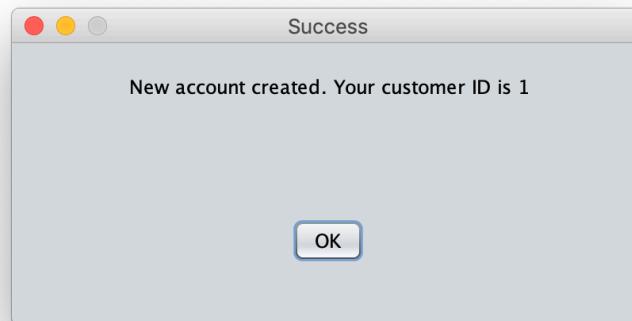
First we need to sign up.



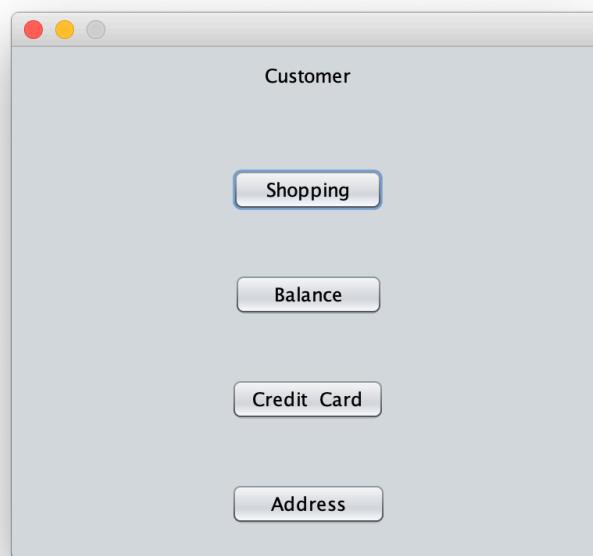
If 2 inputs don't match, a message will show.



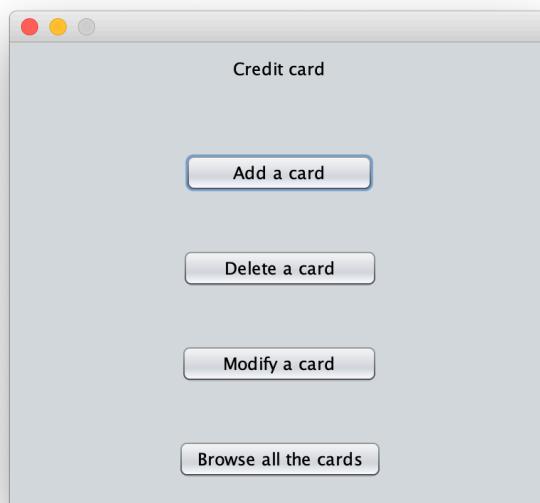
If success, the program will show the account number.



Then we login with the ID and password



First we enter a new credit card



New card

Add a new card

Card number	<input type="text" value="123"/>
Bank	<input type="text" value="chase"/>
Expiration	<input type="text" value="1220"/>
Street number	<input type="text" value="1000"/>
Street name	<input type="text" value="jackson"/>
Apt number	<input type="text" value="101"/>
Zip code	<input type="text" value="60616"/>
City	<input type="text" value="Chicago"/>
State	<input type="text" value="IL"/>
<input type="button" value="Add"/>	

We can delete or modify the card

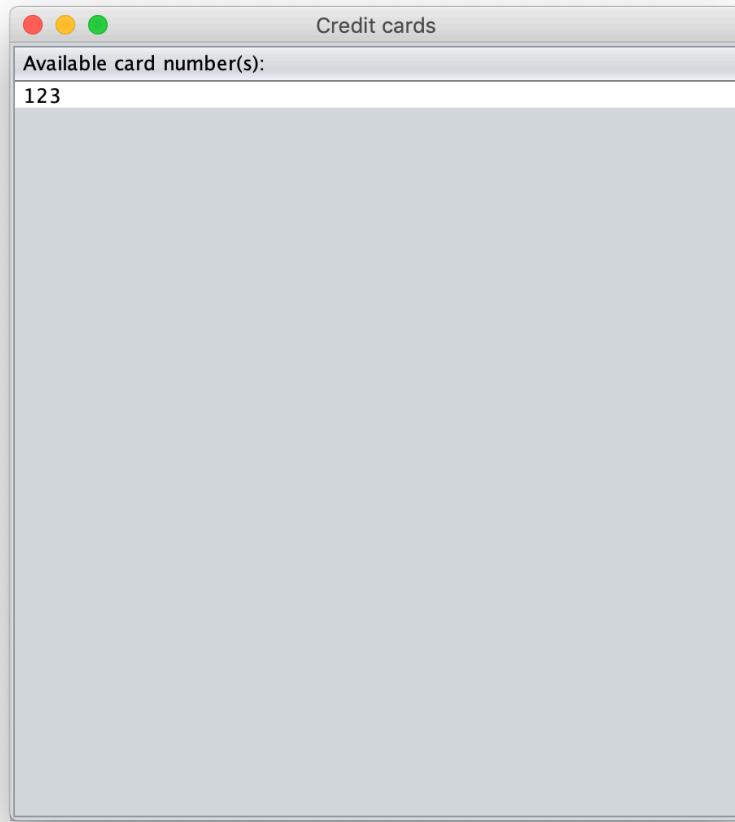
Delete card

Card number	<input type="text" value=" "/>
<input type="button" value="Delete"/>	

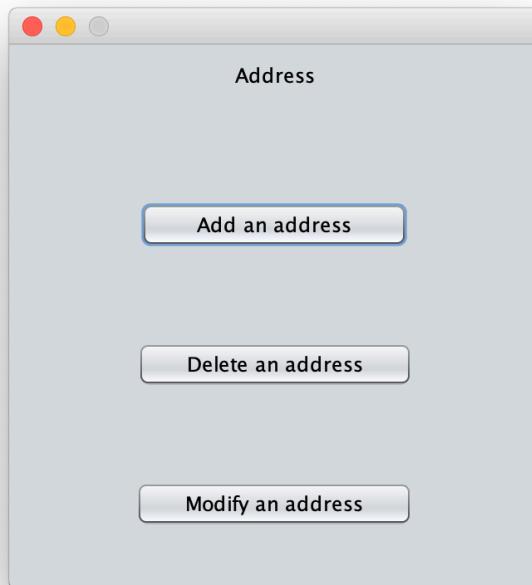
Modify card

Card number	<input type="text" value=" "/>
<input type="button" value="Enter"/>	

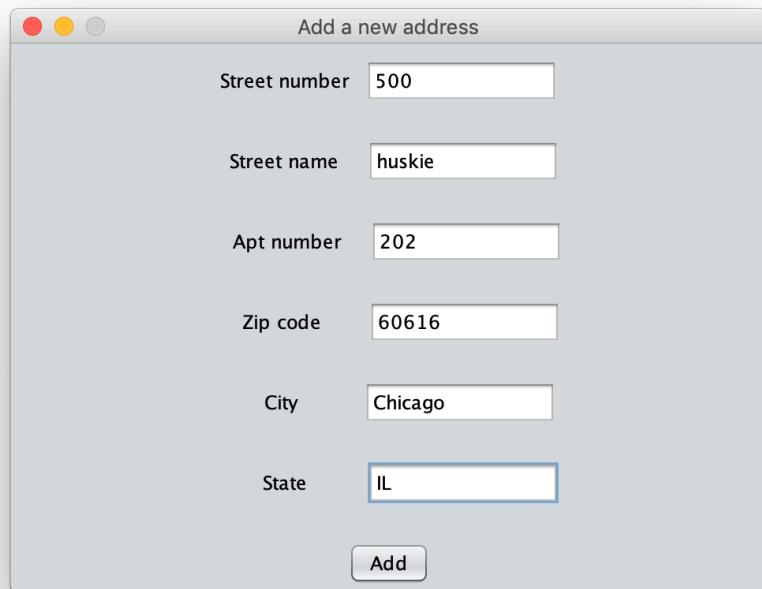
We can also see all the cards



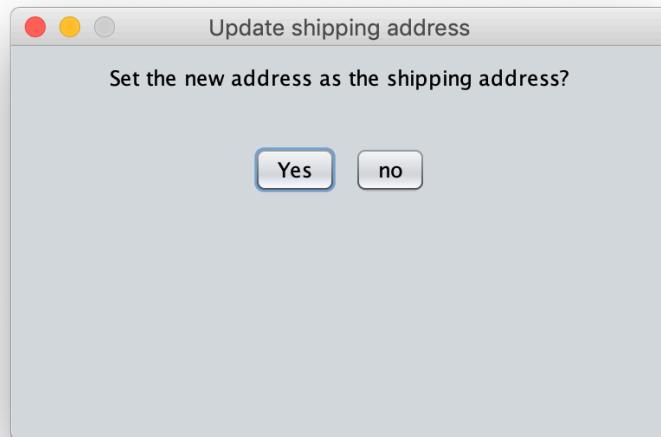
Then we go back to the customer menu and enter address part



First add address



After added the address to the system, the program will ask user whether set the address as the shipping address.



If yes, then shipping address is updated.

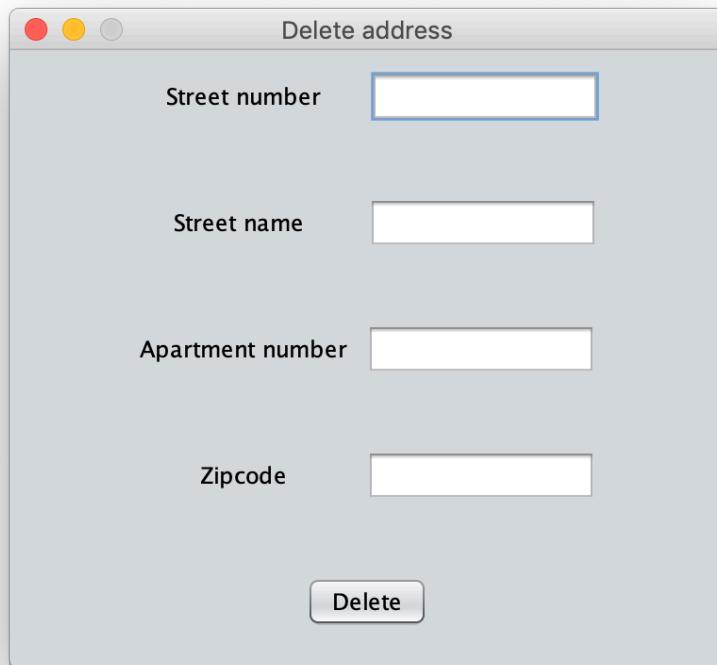


We can also delete or modify an address.

Delete address

Street number	<input type="text"/>
Street name	<input type="text"/>
Apartment number	<input type="text"/>
Zipcode	<input type="text"/>

Delete

A screenshot of a Mac OS X style dialog box titled "Delete address". It contains four text input fields for "Street number", "Street name", "Apartment number", and "Zipcode". Below the fields is a single "Delete" button.

Modify

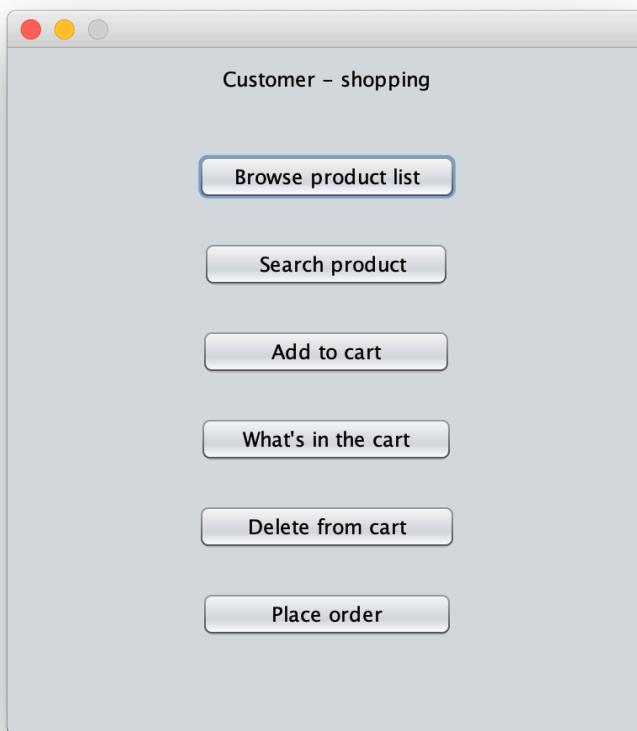
Old address

Street number	<input type="text"/>
Street name	<input type="text"/>
Apartment number	<input type="text"/>
Zipcode	<input type="text"/>

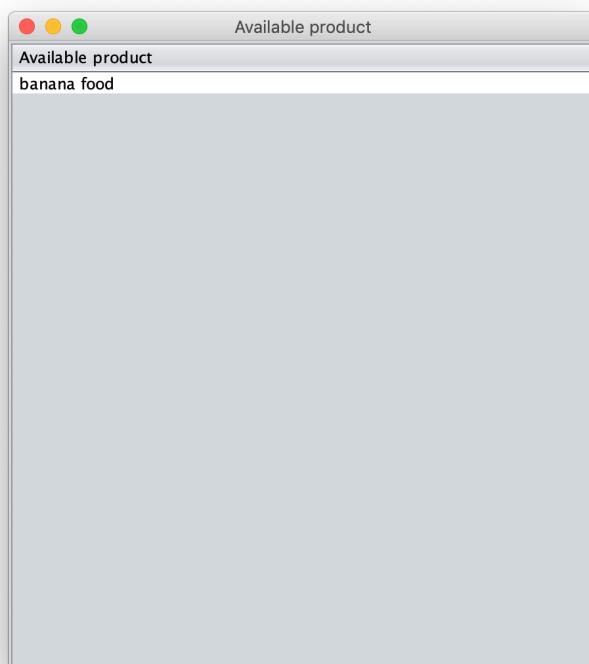
OK

A screenshot of a Mac OS X style dialog box titled "Old address". It contains four text input fields for "Street number", "Street name", "Apartment number", and "Zipcode". Below the fields is a single "OK" button.

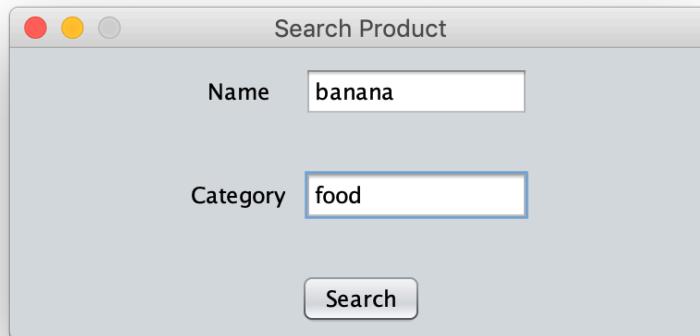
Then we goto the shopping part



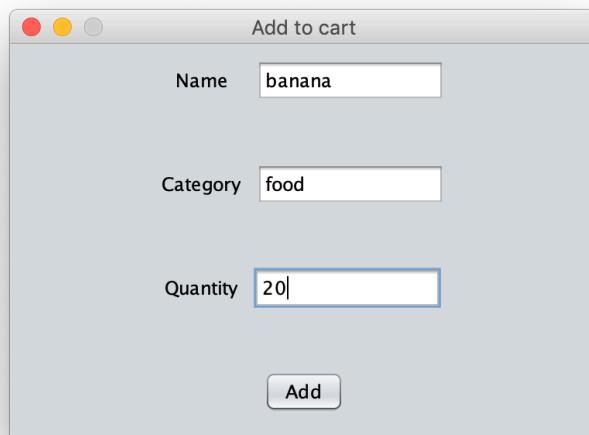
We can browse the products



And search



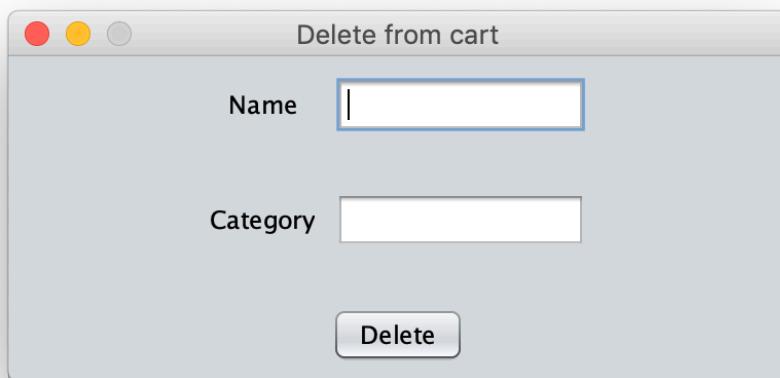
Then add products to the cart



Then we can see the stuff in the cart, and the subtotal



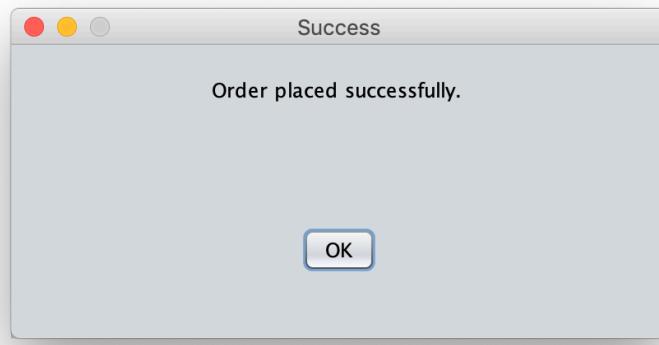
We can also delete product from cart



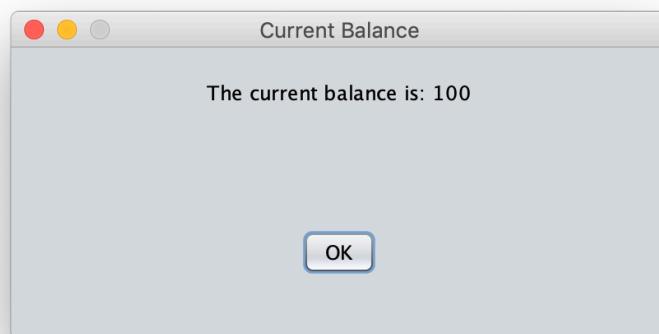
Last, we can place the order, first enter a card number



If successful, it will show the total amount.



Then we go back to customer menu, the balance section will show the current balance

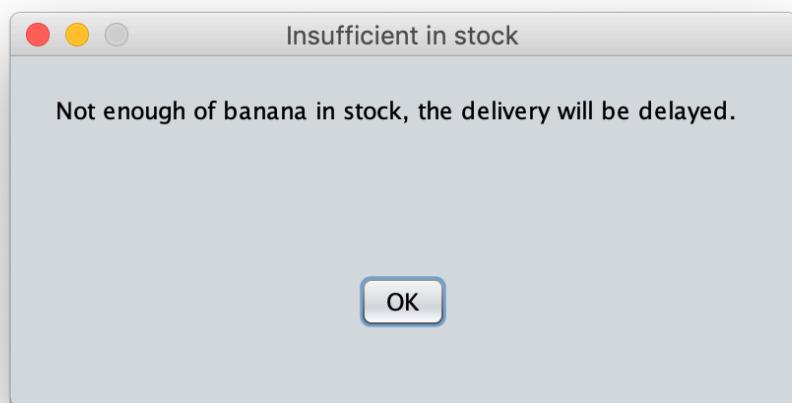


Some other features

Now that we already registered a customer account, if we go back log in as a staff, we can see the list of customers.



If there is not enough in stock, after the order placed, there will be a message.



The shopping cart is a relation in the database, so the carts will be saved between sessions.

Query Editor Query History

```
1 select * from shoppingcart
```

Data Output Explain Messages Notifications

	customer_id integer	product_name character varying (30)	product_category character varying (30)	quantity numeric (3)
1	1	banana	food	10