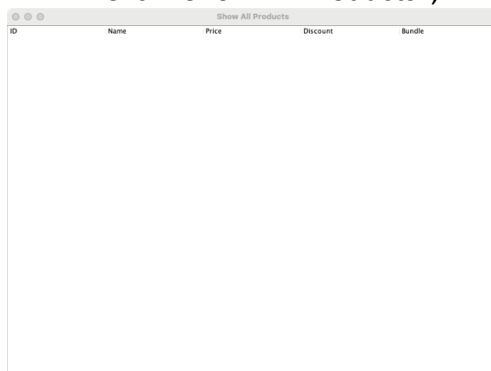


This is the main page of the application. You can click any button. But it means nothing. You can follow these steps to use the application.

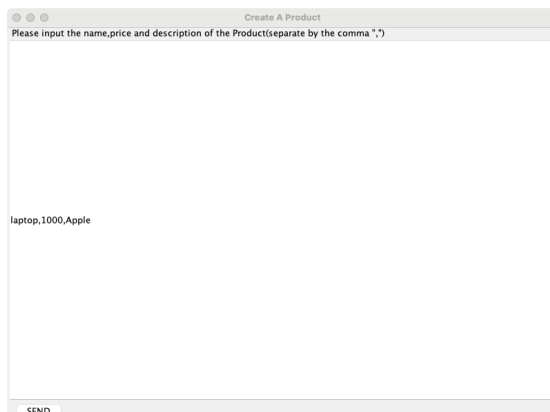
1. Click “Show All Products”;



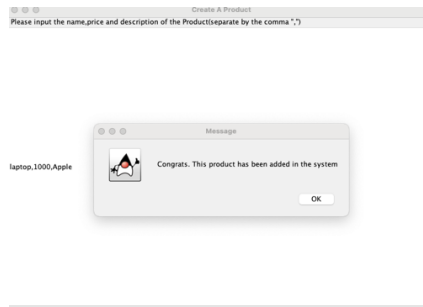
Currently there is nothing in the page. But we have column name on the top. ID means the id of the product, name is product’s name, price is product’s price, discount means the discount policy that the product has, bundle means the bundle policy that the product has.

Now close this window. Go the main page and click “create a product”.

- 2.



You can input the product in this page, the content has three part: 1.name, 2.price,3.description. These parts are separated by comma “,”. When you finish the creation, just click the ‘SEND’ button. If the product does not exist in the system, you



can have this information. . You can use this method to add as many products as you want. After the procedure, you can click the “Show all products”.

The image shows a 'Show All Products' window containing a table with the following data:

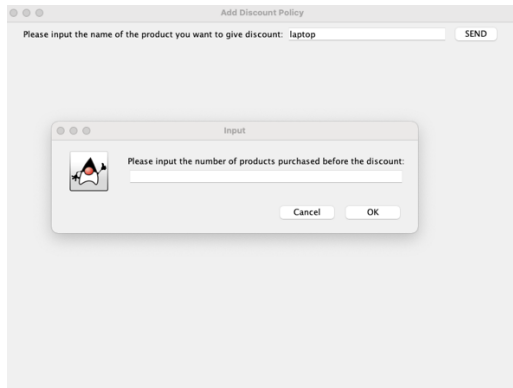
ID	Name	Price	Discount	Bundle
1	laptop	1000.0	null	null
2	mouse	10.0	null	null

You can see the products are added in the system. But the Discount and Bundle columns are null, because we do not have inputted policies of discount and bundle. If you want to add the discount policy, you need to do next.

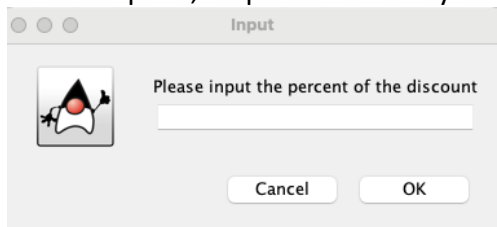
3. Add the discount policy
Click “Add Discount Policy”,



You need to input the name of the product in the system. For example, you entered “laptop”, we know the item laptop is in the system. Then you can see a new window.



You can input the number of product must be purchased before getting the discount. For example, I inputted 2. Then you need to input the percent of the discount.



I inputted 20 means after I purchased 2 laptops then the third one got 20% discount. Then you can click the button "Show All Products", you will find this

ID	Name	Price	Discount	Bundle
1	laptop	1000.0	20% off, after 2 products	null
2	mouse	10.0	null	null

The discount policy of laptop has been changed.

4. Add the Bundle Policy
Click the button "Add Bundle Policy".

Add Bundle Policy

Please input the name of add-on:

mouse

Please input the name of product that the customer must purchase (only one)

laptop

Submit

You can input the name of add-on and the product must be purchased. For example, if I create a bundle policy that is if a laptop was purchased then a mouse was free.

ID	Name	Price	Discount	Bundle
1	laptop	1000.0	20% off, after 2 products	null
2	mouse	10.0	null	laptop

Then if you open the “Show All Products” page, you can see the mouse is bundled with laptop, if a laptop was purchased, then you could get a free mouse.

5. Place Your Order

Click the button “Place Your Order”. You can input the id of the product. If the product exists in the system. You can input the number of product you want to buy. For example,

Place your Order

Product ID 1

Number 4

Add it

1	laptop	4	Total
			Label

Check It Out

I purchased 4 laptops. After typing the numbers, you need to press “Add it” to add these number in the check-out system.

Place your Order

Product ID 2

Number 5

Add it

1	laptop	4	Total
2	mouse	5	Label

Check It Out

After you finish your transaction, you need to click “Check it Out” to calculate the sum.

Place your Order

Product ID 2

Number 5

Add it

1	laptop	4	Total
2	mouse	5	Label

Check It Out

Message

3610.0

OK

You can see the sum is 3610. How could we get this amount. It is very simple. Because we purchased 4 laptops(1000/each) and 5 mice(10/each). The amount is $4 \times 1000 + 5 \times 10 = 4050$;

Then we consider the discount policy of laptop-20% discount after 2 laptops, so the last two laptops should be 80% of its original price

$$4050 - 20\% \times 1000 \times 2 = 3650$$

At last, we consider the bundle policy of mouse-buy one laptop to get a free mouse, we purchased 4 laptops, there should be 4 free mice.

$$3650 - 4 \times 10 = 3610;$$

This is how we get the amount---3610.