Good evening Archil, this is a final presentation of Jiao He for that class of INFO 5001. First of all, I’d like to give some basic background of my application. The whole project is based on Apple products, and for different customers in different markets, the price will be different for the same product.

There are two users of the application. One is the manager and another one is the customer. I will show you the use case diagram. As you can see in this picture, the customer has two use cases. First one is register and another one is to view items. For the register part, the customer needs to select markets, select customer type, and select channel. The customer has to type in his email to verify his identity. Another use case is to view items. he can update shopping cart, (add items and remove items).he can view the item in the shopping cart before checking out. And he can choose to checkout if the shopping cart is not empty. After placing an order, he can view the order history.

For the manager, he has one use case which is to check the sales revenues reports. In this project, there are for parts of reports. They are sales revenues report by markets, channels, bundles and products.

And in this program there are some core classes, for example, markets channel ads, bundles and products. I have set up two markets and three channels under each of them.

And also I set up some ads, bundles and products for those channels.

As you can see, This is an UML of this project. I will take the customer class as an example. you can see it has been connected to the markets and channels, as I mentioned before, customer belongs to different markets and channel may purchase products for different price. And also customer class is connected to ordercart and order, because he can update shopping cart and make new orders.

And there's one creative idea for this project is to verify the email, I will show this function during my code running later.

For this project, there are two improvements that I’d like to improve in the future. First one is to add some other operations for manager. Such as adding adds, bundles, and projects. Another one is the database which can persist data. All in one, i think they can make the whole project more complete.

and then, let’s move to netbeans, I will show you the code running process.

As you can see, at the very beginning, it will ask the user to select his identity. 0 for manager, 1 for customer, also, you can choose -1 to exit the application.

For example, I can choose manager as my identity. because I have already make some orders in this project, so there are some sales revenues already. I can check it out directly.

There are 4 reports i can choose to view,

Type 1 to check the sales revenues by market. We can see the report that those markets have been sorted in descending order.

Type 2 to check it by channel, type 3 to check it by bundles, type 4 to check it by products.

And then I can type minus one to return to the main screen. This time, i will choose one to log in as a customer.

And then after my logging in as a customer, I have to choose the markets. I can choose the US market and then I have to choose the customer type. There's four customer types in this project. I can choose one to select student as my customer type. And then after I choose the customer type I have to choose the channel, for example I can choose Apple store to begin my shopping.

Before I can see the items, I need to verify my email for my logging in.

and as you can see it has sent the code confirm code to my email and I will choose it

I types comfort code here. if I type the wrong code, It will show up an error.

after my email verified successfully, I can see all the ads and some projects in the list. I can choose the index to select which item I would like to buy. for example, I can choose one to see the first ads, which names gift for your new semester. And then I can see all the bundles in the ads. And there are two bundles here and I can choose one and then you can see, the bundle is added to my shopping cart. And if I want to return to previous page, I can type minus one. and then I can choose any item I prefer.

And I can type minus three to show the cart details and also I can type the index of those items to remove items from the shopping cart. For example I type one, the Mac the bongo will be removed from the shopping cart. The total price of my shopping cart will change when i update my items.

Type -2, I just make a new order successfully . And then I can type minus four to check my order list. If i’d like to make another order , i can return back to the page of list of products and ads to make an new order. And it will be added to the order history as well.

After we ordered successfully, the sales revenues report checked by manager will change as well.

Let’s have a quick view.

That's all my code review. Thank you!