Project Demo

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Functionalities covered:

- register a new account in sign up page(customer), and use the distinct username and password log in

- Search and browse products, put products into a shopping cart, and place an order (customer)
- Add/Delete/Modify a credit cards and addresses (customer)
- Add/Delete/Modify a product and product pricing, size, item name, amount,category (staff)
- Add stock that we added in the last step into a warehouse (staff)
- List all warehouses we have
- Store information about suppliers in the database (staff)
- shopping cart for a customer that stores the items the customer has selected so far and their quantity and the total price
- List products based on state mentioned in deliver address
- Once an order has been placed, the available quantity of products in the warehouse in the customer's state and the available balance should be reduced accordingly.
- Staff members can add products to individual warehouses (staff)
- When new stock is added to a warehouse check that the total size of all products stored in this warehouse does not exceed the size of the warehouse.

Using step:

Android Studio is needed.

File→open→'GroceryStore' folder

Build→ make project

Choose one model device, in this project we choose 'Nexus 6P API 27',

Click 'Run' or on the tool bar click Run→Run 'app'

Sample customer credentials:

Username: sliu122 /* if the app install on a different device, the sample may not exist, you need create by yourself */

Password: 0000/*the same as password*/

Sample staff credentials:

Username: jf0001

Password: 0001

ER-Model (describe each member's contribution):

Designed ER Diagram for the Entities Customer, Product, Order, Product Pricing and relationship Order Details, CreditCard , Address and relationship CustAddress, cart,

And Entities Staff, Product, Warehouse, Supplier, Address and relationship Supplier Details, stock

Relational Diagram and Table

Designed Relational Diagram and table for the Entities Customer, Product, Order, Product Pricing and relationship Order Details, CreditCard , Address and relationship CustAddress, cart,

And Entities Staff, Product, Warehouse, Supplier, Address and relationship Supplier Details, stock

SQL DDL script (describe each member's contribution)

Wrote SQL DDL Script for the Entities Customer, Product, Order, Product Pricing

and relationship Order Details, CreditCard, Address and relationship CustAddress, cart. And the Entities Staff, Product, Warehouse, Supplier, Address and relationship Supplier Details, stock

Implementation (describe each member's contribution):

Design:

Jun Fan

Designed Customer part of the project including add to cart, view, search and

checkout.

Shiqi Liu
Designed Registration, Signin and HomePage part of the project.

*If and only if the username is not repeat, the customer can register a new account.

*staff's username and password is given by administrator, cannot create by random person.

Jue Huang

Designed Staff part of the project including Add, edit and delete product also manage stock warehouse, and suppliers.

SQL query development:

Jun Fan

Developed SQL Query for Customer part of the project including add to cart, view, search and checkout.

Shiqi Liu
Developed SQL Query for Registration, Signin and HomePage part of the project.

Jue Huang

Developed SQL Query for Staff part of the project including Add, edit and delete products and also manage stock and suppliers

Report: SHIQI LIU

Screen Recording: Jun Fan

Our GitHub repository:

https://github.com/jfan14/Online_Grocery_Store

Screen Recording Video we post on YouTube:

https://www.youtube.com/watch?v=FU6mOxw-i6I

In this video, we show how our application works.
We have Activities below:

For Staff:
MainActivity → LoginActivity(Staff) → WarehouseActivity(Staff) → ProductActivity(Staff)

→ FinishActivity(Staff)

For New Customers:
MainActivity → RegisterActivity(Customer) → PayinfoActivity(Customer) → CongratActivity → ShopActivity → CartActivity → CheckoutActivirty → DoneActivity

For Customer with account:
MainActivity → ShopActivity → CartActivity → CheckoutActivirty → DoneActivity

Databasehandler:
Insert tables of each shown in ER model
Save the information user input into the class we create and save in database
Add Warehouse values into warehouse table
Add Product values into Product table
Add card information into Card table
Add Customers and Staff information into each table
With SQL query to add/modify/delete/display values in rows

What we learn from this project:

- Enhance the understanding of SQL
- Practice the skill of programming
- Learned how to make an app with database knowledge
- Debug when developed the application
- Enhance the team work and corporate with each other