

Group 2 – Section 6F9

CS 321 PROJECT OREGANO'S

| | |
|---------------------------|-------------|
| (Leader) Aseel Alqahatani | 2200003677 |
| Ghaida Alshammari | 2200005622 |
| Fay Alsadlan | 2200005122 |
| Thuraya Alzubaidi | 22000006254 |
| Sara Alzahrani | 2200005923 |
| Dana Alsharari | 2200004812 |
| Layan Faisal Alanazi | 2200003089 |



ITALIAN RESTAURANT APPLICATION

- **Description:** Our Restaurant system will include an Italian cuisine menu. The restaurant application will provide various services. It will allow the User to browse and select from the menu items from various categories and make new orders. The managers will have the authority to manage the staff. Also, the employees to receive and control the orders.



System Users:

01

Managers:

will be able to add new employee, search for specific employee, and delete employees.

02

Employees:

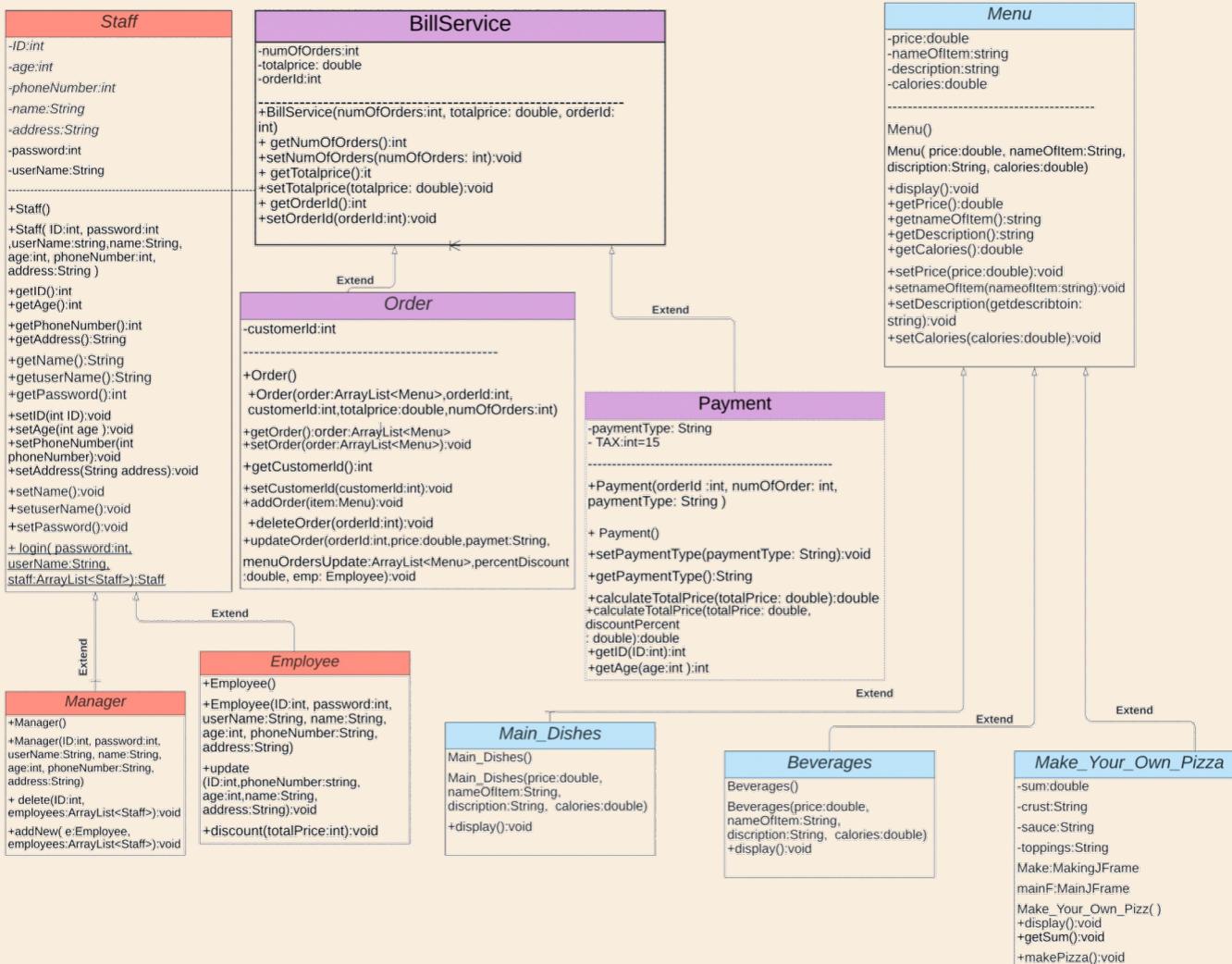
will be able to add, delete and update orders.



Class Hierarchy:

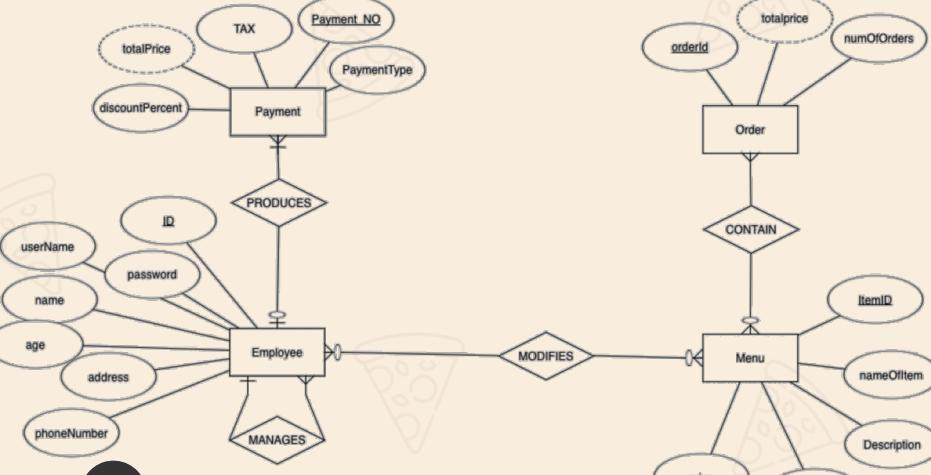
We have **3** super classes & **7** Subclasses

UML is shown in the next slide..

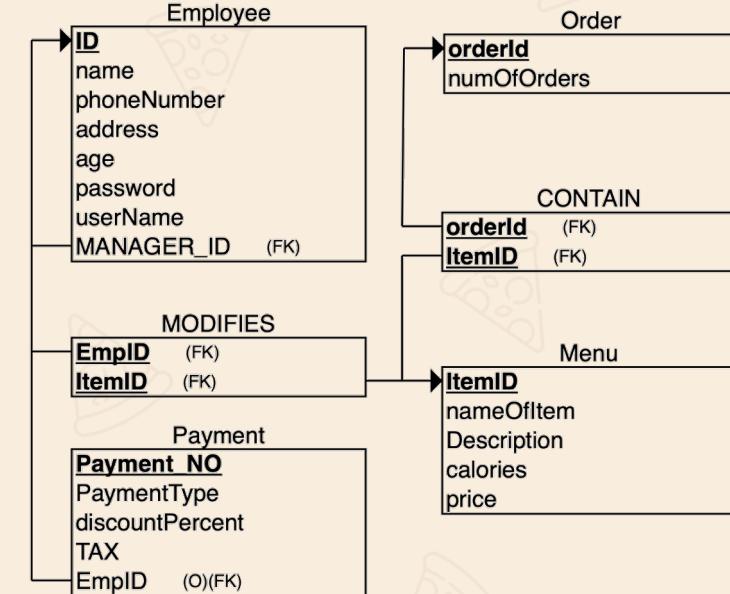


Database Design

ER diagram VS. Schema



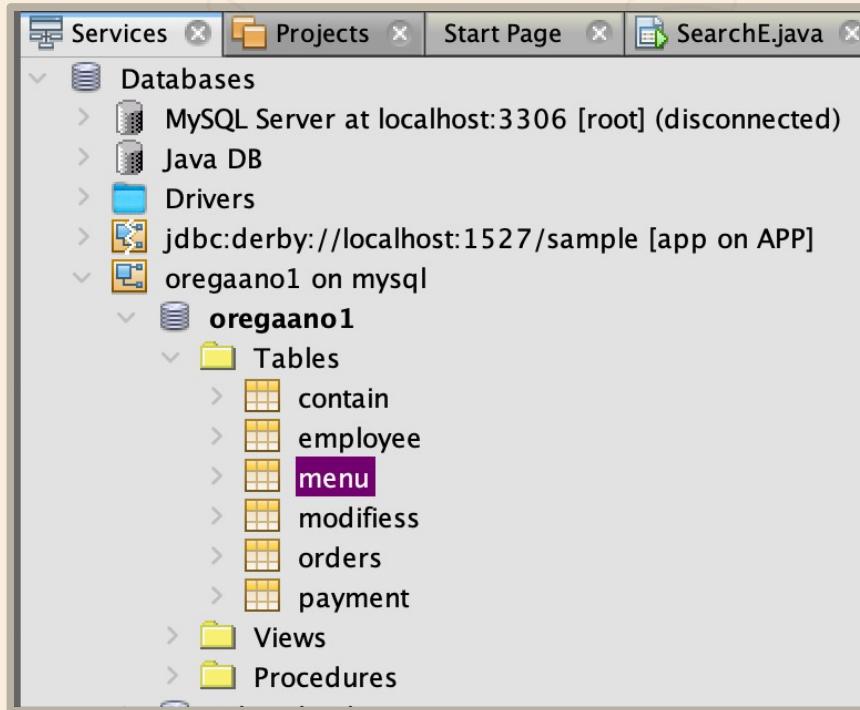
ER diagram



Schema

We have 6 tables in the database

Connecting java code to the database





Difficulties & how problems were solved:

Difficulties

Time



It was difficult for us to find a suitable time for all the group members to join in, especially that it was difficult to conduct a physical meeting during the vacation.

Solution: We used virtual methods instead, such as WhatsApp & Zoom to help us maintain the work progress.

SQL database



We faced some difficulties when transferring databases between devices & while trying to connect the database as well.

Solution: We used zoom remote control so that each student makes the adjustments she needs to do, and we wrote the sql code again in the same device where we applied the connection, and it worked.

Application Interface

Home Page

When the user Enters M:

Design Preview [theMenu]

Welcome to Oregano's Restaurant ☆

If you are Manager Enter 'M'

If you are Employee Enter 'E'

If you want to Exit Enter 'X'

Enter your choice

FRESH & DELICIOUS
OREGANO'S ITALIAN DELI
— 2001 —
BY D.A.F.T.S.G

Pizza with toppings, pasta with basil, bread with cheese.

When the user Enters E:

MANAGERS SYSTEM

User Name

Sign In

Cancel

Hierarchy icon: Manager at top, three employees below.

EMPLOYEES SYSTEM

User Name

Sign In

Cancel

Table icon: A table with chairs.

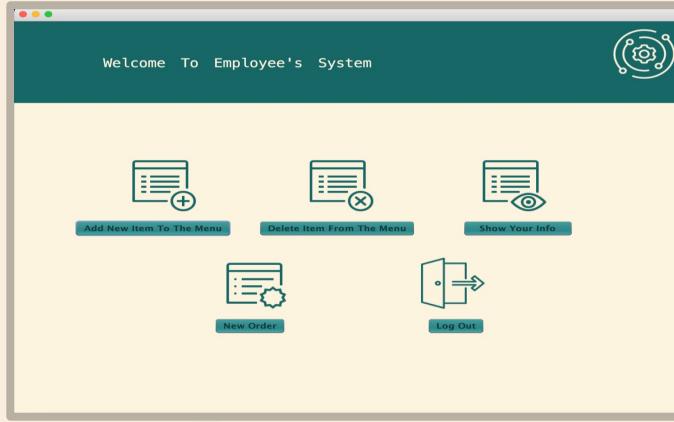
After entering Managers System:

A screenshot of a web browser window titled "Search For An Employee". The page has a maroon header bar. In the center of the header is a white circular icon containing a person. Below the header is a text input field with placeholder text "Enter Employee ID To Show If employee exists" and two buttons: "Submit" and "Back". At the bottom of the page is a blue button with the text "To view all employees in system press here".A screenshot of a web browser window titled "Add New Employee". The page has a maroon header bar. In the center of the header is a white circular icon containing a person. Below the header is a section titled "Enter Employee Information:" with several text input fields: "First Name: Enter Here ...", "ID: Enter Here ...", "Age: Enter Here ...", "Address: Enter Here ...", "Phone Number: Enter Here ...", "Manager ID: Enter Here ...", "UserName: Enter Here ...", and "Password: Enter Here ...". At the bottom of the page are two buttons: "Submit" and "Back".A screenshot of a web browser window titled "Delete An Employee". The page has a dark blue header bar. In the center of the header is a white circular icon containing a person. Below the header is a text input field with placeholder text "Enter Employee ID That you Want To Delete:" and two buttons: "Submit" and "Back".

The “Employee” table in the database will be affected:

| ID | name | phoneNumber | address | age | password | userName | MANAGER_ID |
|---------|---------|-------------|-----------|-----|----------|----------|------------|
| 1001221 | Lamya | 0554456789 | Al Nuzha | 36 | 5678 | lamaya2 | NULL |
| 1004433 | Aseel | 0552233880 | Al Rakah | 30 | 1234 | aseel2 | NULL |
| 1502321 | Fay | 0561304668 | Al Shati | 22 | 1234 | fay1 | 1001221 |
| 1503821 | Dana | 0552231828 | Al Rakah | 24 | 9101 | dana3 | 1004433 |
| 1503822 | Thuraya | 0552231828 | Al rawada | 24 | 9101 | thuraya | 1001221 |
| 1504542 | Sara | 0543322120 | Al Wahan | 23 | 5678 | sara2 | 1001221 |

After entering Employees System:



The “Menu” table in the database will be affected:

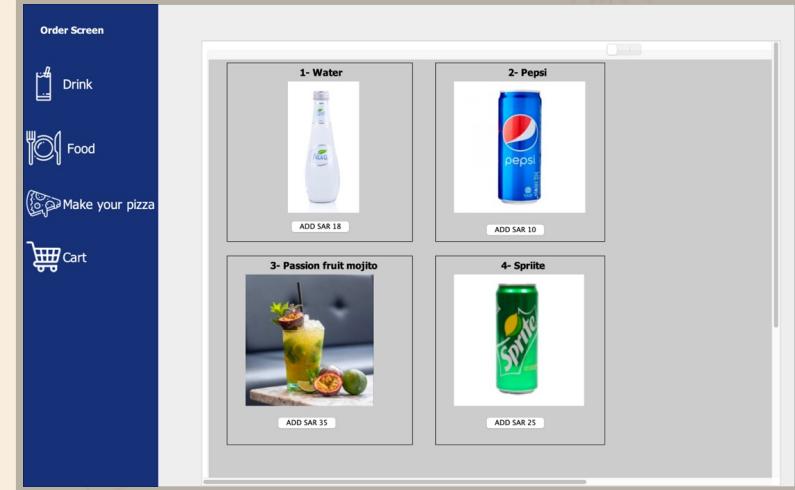
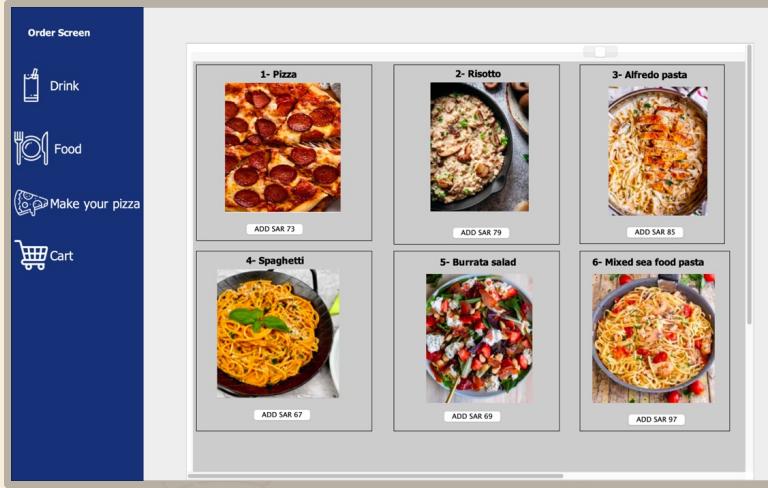
| ItemID | nameOfItem | Description | calories | price |
|--------|----------------------|--|----------|-------|
| 1 | Pepsi | Pepsi | 150 | 10 |
| 2 | Water | Sparkling water | 0 | 18 |
| 3 | Sprite | Sprite | 145 | 25 |
| 4 | Passion Fruit Mojito | Mojito with passion fruit syrup | 163 | 35 |
| 5 | Orange Juice | Freshly Squeezed | 87 | 35 |
| 6 | Spaghetti | Spaghetti with pomodoro sauce | 897 | 67 |
| 7 | Burrata Salad | with basil and fres cherry tomato | 477 | 69 |
| 8 | Pizza | Grilled chicken Pizza & vegetable with special sauce | 1050 | 73 |
| 9 | Risotto | Risotto with creamy cheese and mushroom | 989 | 79 |
| 10 | Alfredo Pasta | Penne pasta with our special alfredo sauce | 1200 | 85 |
| 11 | Mixed sea food Pasta | Pasta with fish shrimp, squid, black mushroom & vegetables | 1090 | 97 |

This window is titled "Add Item to Menu". It contains fields for "Enter Item Name", "Enter Item ID", "Enter Item Description", "Enter Item Calories", and "Enter Item Price". There are "Submit" and "Back" buttons at the bottom.

This window is titled "Delete An Item from Menu". It has a field for "Enter item ID to delete" and "Submit" and "Back" buttons.

This window is titled "Show Employee Information". It asks for "Enter Employee ID to show the following information:" and lists options for "Username", "Name", "PhoneNumber", "ID", "Age", and "Address". There are "Submit" and "Back" buttons.

After selecting "New Order" from Employees System:



The "Orders" & "Contain" table in the database will be affected:

| orderId | numOfOrders |
|---------|-------------|
| 1 | 2 |
| 2 | 3 |
| 3 | 1 |
| HULL | HULL |

| orderId | ItemID |
|---------|--------|
| 1 | 1 |
| 1 | 4 |
| 2 | 6 |
| 2 | 8 |
| 2 | 3 |
| 3 | 11 |
| HULL | HULL |

After selecting "Cart" :

The screenshot shows a Java Swing application window titled "Order Screen". Inside the window, there is a table of items in the cart:

| Item | QTY | Price |
|-------|-----|-------|
| Water | 2 | 36 |
| Pepsi | 1 | 10 |
| Pizza | 1 | 73 |

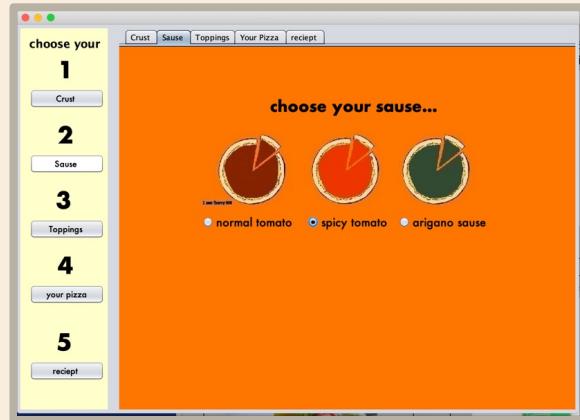
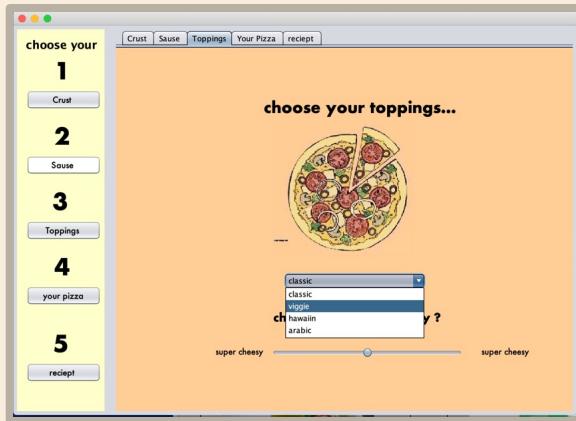
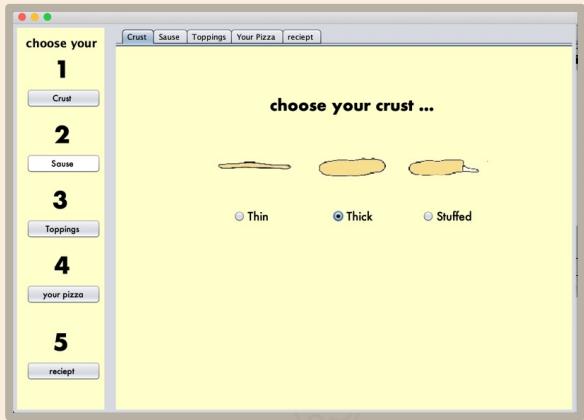
Below the table, the total amount is displayed as "Total: 119.0". There is a section for "Any other requests ?" with a large empty text area. At the bottom, there are two radio buttons: "Cash" and "Credit Card", and a "Pay" button.

A modal dialog box titled "Input" is overlaid on the main window. It contains a label "Card Number" and a text input field containing the value "34567890876". It also has "Cancel" and "OK" buttons.

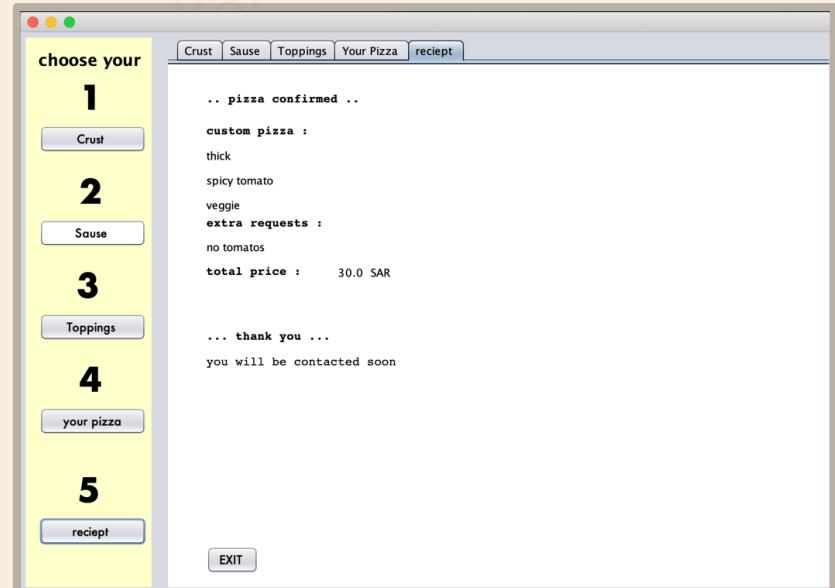
After clicking choosing the payment method & clicking pay button, The changes will be reflected in "Payment" table :

| Payment_NO | PaymentType | discountPercent | TAX | EmpID |
|------------|-------------|-----------------|------|---------|
| 1 | cash | 0 | 15 | 1502321 |
| 2 | credit | 15 | 15 | 1503821 |
| 3 | cash | 20 | 15 | 1503822 |
| NULL | NULL | NULL | NULL | NULL |
| | | | | |

After clicking “make your pizza” :



To view your pizza summary and submit other requests, and view the receipt:



After clicking Exit button it will return to order screen

After selecting "Cart" :

The screenshot shows a split-screen interface. On the left is the 'Order Screen' with a dark blue background, featuring four items: 'Drink' (cup icon), 'Food' (fork and knife icon), 'Make your pizza' (pizza slice icon), and 'Cart' (shopping cart icon). On the right is the 'Order' window with a light gray background. It displays a table with one item: 'custom pizza' (Item), '1' (Item ID), '1' (QTY), and '30' (Price). Below the table is a 'Delete Item' button. A large bold text 'Total: 0.0' is centered at the bottom. Underneath it is a text input field labeled 'Any other requests ?'. To the right of the input field are two radio buttons: 'Cash' (selected) and 'Credit Card'. Next to them are 'Pay' and 'Exit' buttons.

After clicking choosing the payment method & clicking pay button, The changes will be reflected in "Payment" table :

| Payment_NO | PaymentType | discountPercent | TAX | EmpID |
|------------|-------------|-----------------|------|---------|
| ► 1 | cash | 0 | 15 | 1502321 |
| 2 | credit | 15 | 15 | 1503821 |
| 3 | cash | 20 | 15 | 1503822 |
| HULL | HULL | HULL | HULL | HULL |

THANK YOU!

| | |
|---------------------------|------------|
| (Leader) Aseel Alqahatani | 2200003677 |
| Ghaida Alshammari | 2200005622 |
| Fay Alsadlan | 2200005122 |
| Thuraya Alzubaidi | 2200006254 |
| Sara Alzahrani | 2200005923 |
| Dana Alsharari | 2200004812 |
| Layan Faisal Alanazi | 2200003089 |

