Software Engineering

User case Diagram

1. Program Name: College of Computing and Digital Technologies

2. Course Name: Software engineering.

3. Topic: Restaurant Management

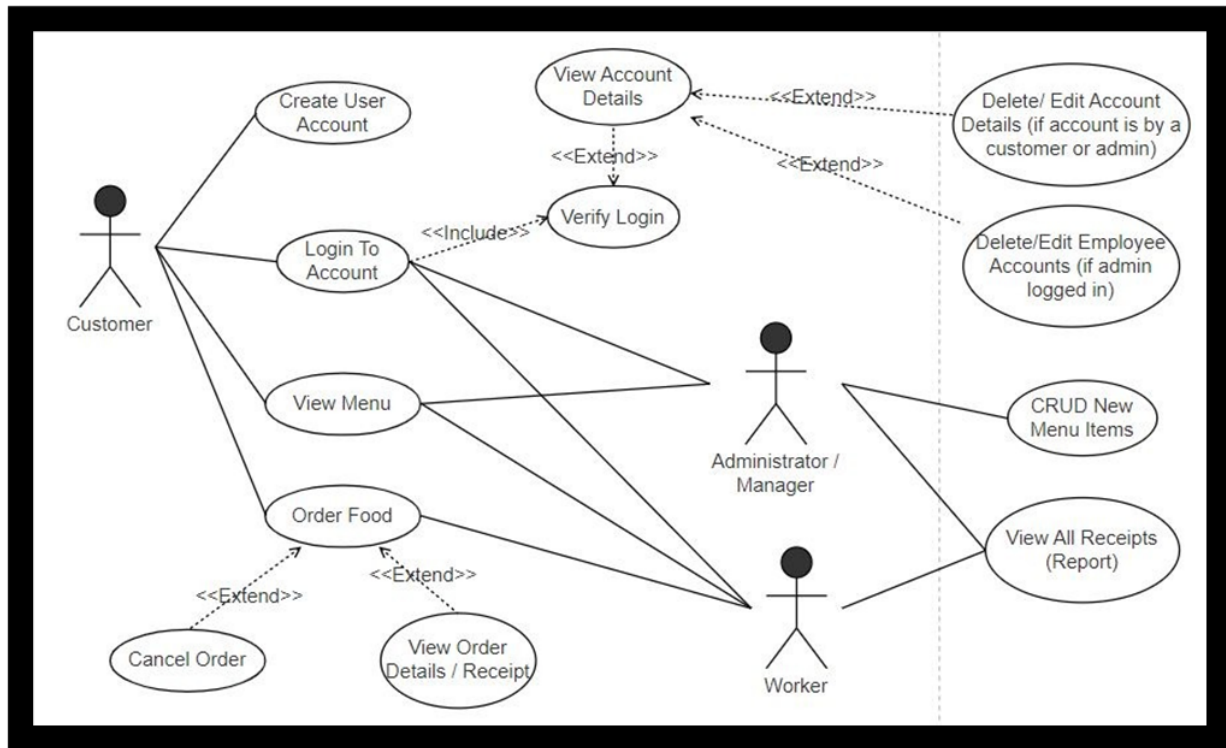**3. Group Members:**   Ahmed Mohamed Galal

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Description of Use Case Diagram:

1. Actor: Customer

Use Cases

·   **Login To Account:** The customer logs in to their account using their username and password.

- **<<include>> Verify Login:** The system verifies the customer's login credentials, and checks for the user type (whether they are a customer, administrator, or worker, and opens the appropriate page for them); it is included since it is always performed after the login.
- **<<extend>> View Account Details:** Optional, If the customer has selected the "View Account Details" option, the system displays their account details.

+ <<extend>> Delete/Edit account details: Optional, If the customer has selected the "Delete/Edit Account Details" option, the system allows them to edit or delete their account information.

·   **Create User Account:** The customer creates a new account in the system.

·   **View Menu:** The customer views the available menu items that are added by the administrator in the system.

·   **Order Food:** The customer can place an order for food delivery and generates an Order ID + a receipt with all items selected and their amount and total amount.
   -    **<<extend>> Cancel Order:** Optional, the customer can cancel a previously placed order.
   -    **<<extend>> View Order Details / Receipt:** Optional, displays for customers the order details made by him.

Implementation in code:
   ● Login To Account: Requires username and password.
   ● There will be a verification process that decides if the username is for which user type (client, worker, or administrator)
   ● Create User Account: Requires name, email address, password, age, gender, phone number, home Address, and generates a Customer ID.
   ● View Menu: Displays the menu items with their prices and picture.
   ● Order Food: Requires the customer's selected items. And generates an Order ID + a receipt with all items selected and their amount and total amount.
   ● Cancel Order: Requires the order ID for order to be canceled.

2. Actor: Worker

Use Cases

·   **Login To Account:** The employee logs in to their account using their username and password.

·   **<<include>> Verify Login:** The system verifies the worker's login credentials; it is included since it is always performed after the login, and sends them to the appropriate page.

·   **Order Food:** The worker places an order for a customer who is present in person at the restaurant. Requires the customer's selected items. And generates an Order ID + a receipt with all items selected and their amount and total amount.
   -    **<<extend>> Cancel Order:** Optional, the worker can cancel a previously placed order.
   -    **<<extend>> View Order Details / Receipt:** Optional, displays for employee order details..

· **View Menu:** The Employees view the available menu items that are added by the admin in the system.

· **View All Receipts:** Makes a report with all the receipts.

Implementation in code:
- Login To Account: Requires username and password of the worker.
- There will be a verification process that decides if the username is for which user type (client, worker, or administrator)
- Order Food: Requires the customer's selected items inputted by the worker. And generates an Order ID + a receipt with all items selected and their amount and total amount.
- View Menu: Displays the menu items and their prices.
- View All Receipts: Displays all receipts generated by the system.

3. Actor: Administrator/Manager

Use Cases

. **Login To Account:** The admin logs in to their account using their username and password.

- **<<include>> Verify Login:** The system verifies the Admin's login credentials; it is included since it is always performed after the login, and sends them to the appropriate page.

- **<<extend>> View Account Details:** Optional, If the Admin has selected the "View Account Details" option, the system displays their employee's account details, but won't be able to see the client's account's details.

+ **<<extend>> Delete/Edit Employee accounts (if admin logged in):** Optional, if the admin has selected the "Delete/Edit Employee accounts" option, the system allows them to edit or delete these account information.

· **Add new employee (admin or worker):** The administrator adds a new employee to the system, either as an administrator or worker and provides an account for them.

· **CRUD Menu Items:** Create/Read/Update/Delete Menu items, including their prices and pictures.

· **View All Receipts:** The administrator views all receipts generated by the system for completed orders.

Implementation in code:

- Add new employee (admin or worker): Requires the name, email address, password, age, gender, address, and phone number of the new employee.
- CRUD Menu Items: Provides the Name, Price, and a picture of the new menu item the admin wants to add.
- View All Receipts: Displays all receipts generated by the system.