

VIETNAM NATIONAL UNIVERSITY - HO CHI MINH CITY
HO CHI MINH CITY UNIVERSITY OF TECHNOLOGY
FACULTY OF COMPUTER SCIENCE AND ENGINEERING



DATABASE SYSTEMS

Assignment 2

CC02 - Group 03

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1 Evaluation

No.	Full Name	Student ID	Work in the assignment	Evaluation
1	Nguyen Manh Dan	2052932	Create table write procedures and report	25%
2	Nguyen Hai Dang	2052444	Insert data and make presentation slides	25%
3	Pham Anh Quan	2053376	Design the app and connect it to the database	25%
4	Truong Nguyen Hung Thinh	2053463	Bugfix and write regex to check data input	25%

2 Requirements

2.1 Design the database

To begin, we create some tables in our database and insert data into them. Here are 3 out of 20 tables we have in our database.

```
CREATE TABLE USER (  
  `ID` varchar(200) NOT NULL,  
  `Name` varchar(200) NOT NULL,  
  `Sex` varchar(200) NOT NULL,  
  `Birthdate` datetime NOT NULL,  
  `Phone` varchar(200) NOT NULL,  
  `Email` varchar(200) NOT NULL,  
  `Address` varchar(200) NOT NULL,  
  PRIMARY KEY(`ID`)  
);  
  
CREATE TABLE SELLER (  
  `ID` varchar(200) NOT NULL,  
  `StoreName` varchar(200) NOT NULL,  
  `StoreAddress` varchar(200) NOT NULL,  
  `Logo` varchar(200) NOT NULL,  
  `NationalID` varchar(200) NOT NULL,  
  `TotalRevenue` double DEFAULT 0,  
  PRIMARY KEY(`ID`),  
  FOREIGN KEY (ID) REFERENCES USER(ID)  
);  
  
CREATE TABLE BUYER (  
  `ID` varchar(200) NOT NULL,  
  `AccountType` varchar(200) NOT NULL,  
  `TotalMoneySpent` double DEFAULT 0,  
  PRIMARY KEY(`ID`),  
  FOREIGN KEY (ID) REFERENCES USER(ID)  
);
```

Create tables

```
INSERT INTO `USER` (`ID`, `Name`, `Sex`, `Birthdate`, `Phone`, `Email`, `Address`) VALUES  
(  
'000000', 'Pham Anh Quan', 'M', '1990-12-09', '0909xxxxx2', 'email0@gmail.com', '65 Ham Nghi, P.Nguyen Thai Binh, Q.1, TPH  
'000001', 'Nguyen Hai Dang', 'M', '2005-10-07', '0909xxxxx6', 'email1@gmail.com', '109 Tran Duy Hung, P.Trung Hoa, Q.Cau G  
'000002', 'Nguyen Manh Dan', 'M', '1995-06-17', '0909xxxxx8', 'email2@gmail.com', '1006 3 Thang 2, P.14, Q.10, TPHCM'),  
'000003', 'Truong Nguyen Hung Thinh', 'M', '1998-11-29', '0903xxxxx6', 'email3@gmail.com', '84 Nui Thanh, P.Hoa Cuong Bac,  
'000004', 'Dao Anh Tuan', 'M', '2001-03-23', '0903xxxxx1', 'email4@gmail.com', '241 Dao Duy Tu, P.7, Q.10, TPHCM'),  
'000005', 'Bui Quoc Minh Quan', 'M', '1987-01-21', '0902xxxxx7', 'email5@gmail.com', '491 Tran Nguyen Han, P.Ho Nam, Q.Le  
'000006', 'Nguyen Ha Trong Hieu', 'M', '1988-12-13', '0903xxxxx5', 'email6@gmail.com', '178 Le Thanh Nghi, P.Dong Tam, Q.H  
'000007', 'Chu Gia Vu Khanh', 'M', '2008-05-04', '0902xxxxx4', 'email7@gmail.com', '315 Vo Van Ngan, P.Linh Chieu, Q.Thu D
```



```
INSERT INTO `SELLER` (`ID`, `StoreName`, `StoreAddress`, `Logo`, `NationalID`) VALUES
('000000', 'BigAbs Shop', '558 Tran Hung Dao, P.14, Q.5, TPHCM', 'logo0.jpg', '0972xxxxxx2'),
('000002', 'Dai Ca Laptop Shop', '165 3 Thang 2, P.11, Q.10, TPHCM', 'logo2.jpg', '0911xxxxxx5'),
('000003', 'LadyMassage Store', '428 Truong Chinh, P.Hoa An, Q.Cam Le, Da Nang', 'logo3.jpg', '0872xxxxxx1'),
('000004', 'Rau Xanh Groceries', '241 Dao Duy Tu, P.7, Q.10, TPHCM', 'logo4.jpg', '0199xxxxxx8'),
('000005', 'Chopin Musical', '182 Nguyen Binh Khiem, P.Dang Giang, Q.Ngo Quyen, Hai Phong', 'logo5.jpg', '0595xxxxxx6'),
('000007', 'Blackwheel Motors', '291 Pham Van Dong, P.1, Q.Go Vap, TP.HCM', 'logo7.jpg', '0447xxxxxx3');
```

```
INSERT INTO `BUYER` (`ID`, `AccountType`) VALUES
('000000', 'Silver'),
('000001', 'Gold'),
('000002', 'Gold'),
('000003', 'Diamond'),
('000004', 'Bronze'),
('000005', 'Silver'),
('000006', 'Bronze'),
('000007', 'Diamond');
```

Insert data into tables

Next, to calculate derived attributes such as TotalCost or TotalMoneySpent then we will perform the following operations.

```
-- CALCULATE TOTAL COST OF EACH ORDER
CREATE TABLE TOTALCOST
AS SELECT OrderID, USER.Name, sum(PRODUCT_ORDER.Quantity * Price) as TotalCost
FROM PRODUCT_ORDER
INNER JOIN PRODUCT ON ProductID = PRODUCT.ID
INNER JOIN SHOP_ORDER ON OrderID = SHOP_ORDER.ID
INNER JOIN USER ON BuyerID = USER.ID
GROUP BY OrderID
ORDER BY OrderID ASC;

ALTER TABLE TOTALCOST
ADD PRIMARY KEY (OrderID);

UPDATE SHOP_ORDER
INNER JOIN TOTALCOST
ON SHOP_ORDER.ID = TOTALCOST.OrderID
SET SHOP_ORDER.TotalCost = TOTALCOST.TotalCost;
```



```
-- CALCULATE TOTAL MONEY SPENT BY EACH BUYER
CREATE TABLE TOTALMONEYSPEMPT
AS SELECT USER.ID, USER.Name, sum(PRODUCT_ORDER.Quantity * Price) as TotalMoneySpent
FROM PRODUCT_ORDER
INNER JOIN PRODUCT ON ProductID = PRODUCT.ID
INNER JOIN SHOP_ORDER ON OrderID = SHOP_ORDER.ID
INNER JOIN USER ON BuyerID = USER.ID
GROUP BY USER.Name
ORDER BY USER.ID ASC;
ALTER TABLE TOTALMONEYSPEMPT
ADD PRIMARY KEY (ID);
UPDATE BUYER
INNER JOIN TOTALMONEYSPEMPT
ON BUYER.ID = TOTALMONEYSPEMPT.ID
SET BUYER.TotalMoneySpent = TOTALMONEYSPEMPT.TotalMoneySpent;
```

Calculating derived attributes

Next, to SELECT, INSERT, DELETE, and UPDATE data in tables, we will put the queries into procedures and call the procedures to perform those operations. Each procedure has different inputs, for example:

- INSERT and UPDATE take in 8 inputs of 1 table name and 7 attribute values as our tables have at most 7 attributes. For tables that have all 7 attributes like USER, we will perform INSERT and UPDATE on those tables using all input attributes. Whereas for other tables, the excessive input attributes will be of value empty string.
- DELETE and SELECT take in 4 inputs of 1 table name and 3 primary key values as our tables have at most 3 primary keys. For tables that have 1 primary key like USER, we will compare only the first attribute with the primary key of that table. Similarly, for tables that have 2 or more primary keys like ROUTE then we will compare the first, second, and third attributes with the primary keys of that table.



```
DELIMITER $
CREATE PROCEDURE ADDVALUE (
    IN tablename varchar(200),
    IN att1 varchar(200),
    IN att2 varchar(200),
    IN att3 varchar(200),
    IN att4 varchar(200),
    IN att5 varchar(200),
    IN att6 varchar(200),
    IN att7 varchar(200)
)
BEGIN
    IF tablename = 'USER' THEN
        INSERT INTO USER VALUES (att1, att2, att3, str_to_date(att4, '%Y-%m-%d'), att5, att6, att7);
    ELSEIF tablename = 'SELLER' THEN INSERT INTO SELLER VALUES (att1, att2, att3, att4, att5, att6);
    ELSEIF tablename = 'PERSONAL_ACCOUNT' THEN INSERT INTO PERSONAL_ACCOUNT VALUES (att1, att2);
    ELSEIF tablename = 'BUSINESS_ACCOUNT' THEN INSERT INTO BUSINESS_ACCOUNT VALUES (att1, att2);
    ELSEIF tablename = 'BRAND_ACCOUNT' THEN INSERT INTO BRAND_ACCOUNT VALUES (att1, att2, att3);

DELIMITER $
CREATE PROCEDURE DELETEVALUE(
    IN tablename varchar(200),
    IN att1 varchar(200),
    IN att2 varchar(200),
    IN att3 varchar(200)
)
BEGIN
    IF tablename = 'USER' THEN DELETE FROM USER WHERE att1 = USER.ID;
    ELSEIF tablename = 'SELLER' THEN DELETE FROM SELLER WHERE att1 = SELLER.ID;
    ELSEIF tablename = 'PERSONAL_ACCOUNT' THEN DELETE FROM PERSONAL_ACCOUNT WHERE att1 = PERSONAL_ACCOUNT.ID;
    ELSEIF tablename = 'BUSINESS_ACCOUNT' THEN DELETE FROM BUSINESS_ACCOUNT WHERE att1 = BUSINESS_ACCOUNT.ID;
    ELSEIF tablename = 'BRAND_ACCOUNT' THEN DELETE FROM BRAND_ACCOUNT WHERE att1 = BRAND_ACCOUNT.ID;

DELIMITER $
CREATE PROCEDURE SEARCHVALUE(
    IN tablename varchar(200),
    IN att1 varchar(200),
    IN att2 varchar(200),
    IN att3 varchar(200)
)
BEGIN
    IF tablename = 'USER' THEN SELECT * FROM USER WHERE att1 = USER.ID;
    ELSEIF tablename = 'SELLER' THEN SELECT * FROM SELLER WHERE att1 = SELLER.ID;
    ELSEIF tablename = 'PERSONAL_ACCOUNT' THEN SELECT * FROM PERSONAL_ACCOUNT WHERE att1 = PERSONAL_ACCOUNT.ID;
    ELSEIF tablename = 'BUSINESS_ACCOUNT' THEN SELECT * FROM BUSINESS_ACCOUNT WHERE att1 = BUSINESS_ACCOUNT.ID;
    ELSEIF tablename = 'BRAND_ACCOUNT' THEN SELECT * FROM BRAND_ACCOUNT WHERE att1 = BRAND_ACCOUNT.ID;
```



```
DELIMITER $  
  
CREATE PROCEDURE UPDATEVALUE(  
    IN tablename varchar(200),  
    IN att1 varchar(200),  
    IN att2 varchar(200),  
    IN att3 varchar(200),  
    IN att4 varchar(200),  
    IN att5 varchar(200),  
    IN att6 varchar(200),  
    IN att7 varchar(200)  
)  
  
BEGIN  
    IF tablename = 'USER' THEN UPDATE USER SET  
        USER.ID = att1,  
        USER.Name = att2,  
        USER.Sex = att3,  
        USER.Birthdate = str_to_date(att4, '%Y-%m-%d'),  
        USER.Phone = att5,  
        USER.Email = att6,  
        USER.Address = att7  
        WHERE att1 = USER.ID;  
    ELSEIF tablename = 'SELLER' THEN UPDATE SELLER SET  
        SELLER.ID = att1,  
        SELLER.StoreName = att2,  
        SELLER.StoreAddress = att3,  
        SELLER.Logo = att4,  
        SELLER.NationalID = att5,  
        SELLER.TotalRevenue = att6  
        WHERE att1 = SELLER.ID;
```

Procedure

2.2 Design the application

We implement this assignment using Python and MySQL, with the GUI of the app made with Tkinter. The source code is attached to this report.

Below are the codes written in python to call the procedures in the database.

```
def add(self, child):
    attribute1 = str(child.entry1.get())
    attribute2 = str(child.entry2.get())
    attribute3 = str(child.entry3.get())
    attribute4 = str(child.entry4.get())
    attribute5 = str(child.entry5.get())
    attribute6 = str(child.entry6.get())
    attribute7 = str(child.entry7.get())

    attributes = list(chain(attribute1, attribute2, attribute3, attribute4, attribute5, attribute6, attribute7))

    for num in range(0, child.NUMBER_OF_ATTRIBUTE):
        if (len(attributes[num]) == 0 or attributes[num].isspace() == 1):
            messagebox.showinfo("Error!", "Please fill up the blank entry.")
            return
        else:
            try:
                dbConnection = self.connection()
                cursor = dbConnection.cursor()
                cursor.callproc('ADDDVALUE', (child.TABLE, attribute1, attribute2, attribute3, attribute4, attribute5, attribute6, attribute7,))
                dbConnection.commit()
                dbConnection.close()
            except:
                messagebox.showinfo("Error!", "Value in one of the fields already exists, is in wrong format or can not be fixed.")
                return

    self.refreshTable(child)
```

```
def delete(self, child):
    decision = messagebox.askquestion("Warning!", "This will delete the data directly from the table. Do you want to continue?")
    if decision != "yes":
        return
    else:
        if not child.tree.selection():
            messagebox.showinfo("Error!", "You have not chosen the data from the table.")
            return
        else:
            selectedItem = child.tree.selection()[0]
            deleteData = str(selectedItem.split()[0])
            try:
                dbConnection = self.connection()
                cursor = dbConnection.cursor()
                cursor.callproc('DELETEDVALUE', (child.TABLE, deleteData, "", ""))
                dbConnection.commit()
                dbConnection.close()
            except:
                messagebox.showinfo("Error!", "Sorry an error occurred!")
                return

    self.refreshTable(child)
```




```
def search(self, child):
    attribute1 = str(child.entry1.get())
    attribute2 = str(child.entry2.get())
    attribute3 = str(child.entry3.get())

    dbConnection = self.connection()
    cursor = dbConnection.cursor()
    cursor.callproc('SEARCHVALUE', (child.TABLE, attribute1, attribute2, attribute3,))
    try:
        result = cursor.fetchall()

        for num in range(0, child.NUMBER_OF_ATTRIBUTE):
            self.setPlaceholder(child, result[0][num], (num + 1))

        dbConnection.commit()
        dbConnection.close()
    except:
        messagebox.showinfo("No data found.")
```

```
def update(self, child):
    selectedId = ""
    try:
        selectedItem = child.tree.selection()[0]
        selectedId = str(selectedItem.split(' ')[0])
    except:
        messagebox.showinfo("Error!", "Please select a data row.")

    attribute1 = str(child.entry1.get())
    attribute2 = str(child.entry2.get())
    attribute3 = str(child.entry3.get())
    attribute4 = str(child.entry4.get())
    attribute5 = str(child.entry5.get())
    attribute6 = str(child.entry6.get())
    attribute7 = str(child.entry7.get())

    attributes = list(chain(attribute1, attribute2, attribute3, attribute4, attribute5, attribute6, attribute7))

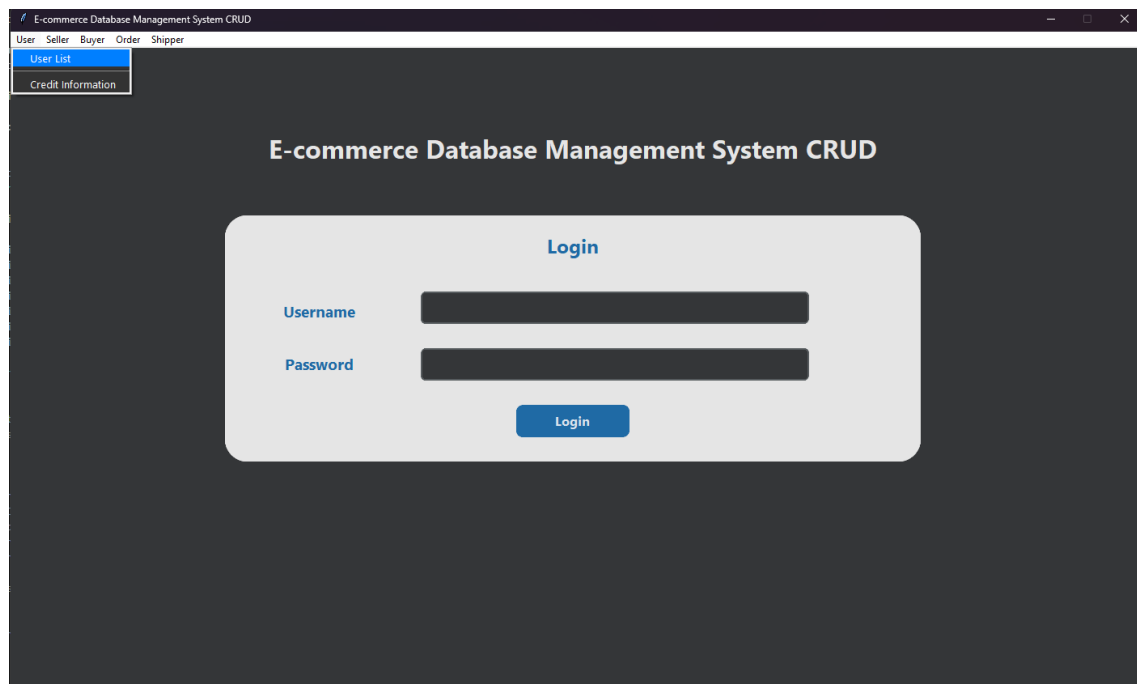
    for num in range(0, child.NUMBER_OF_ATTRIBUTE):
        if (len(attributes[num]) == 0 or attributes[num].isspace() == 1):
            messagebox.showinfo("Error!", "Please fill up the blank entry.")
            return
    else:
        try:
            dbConnection = self.connection()
            cursor = dbConnection.cursor()
            cursor.callproc('UPDATEVALUE', (child.TABLE, attribute1, attribute2, attribute3, attribute4, attribute5, attribute6, attribute7,))
            dbConnection.commit()
            dbConnection.close()
        except:
            messagebox.showinfo("Error!", "Value in one of the fields already exists, is in wrong format or can not be fixed.")
            return

    self.refreshTable(child)
```

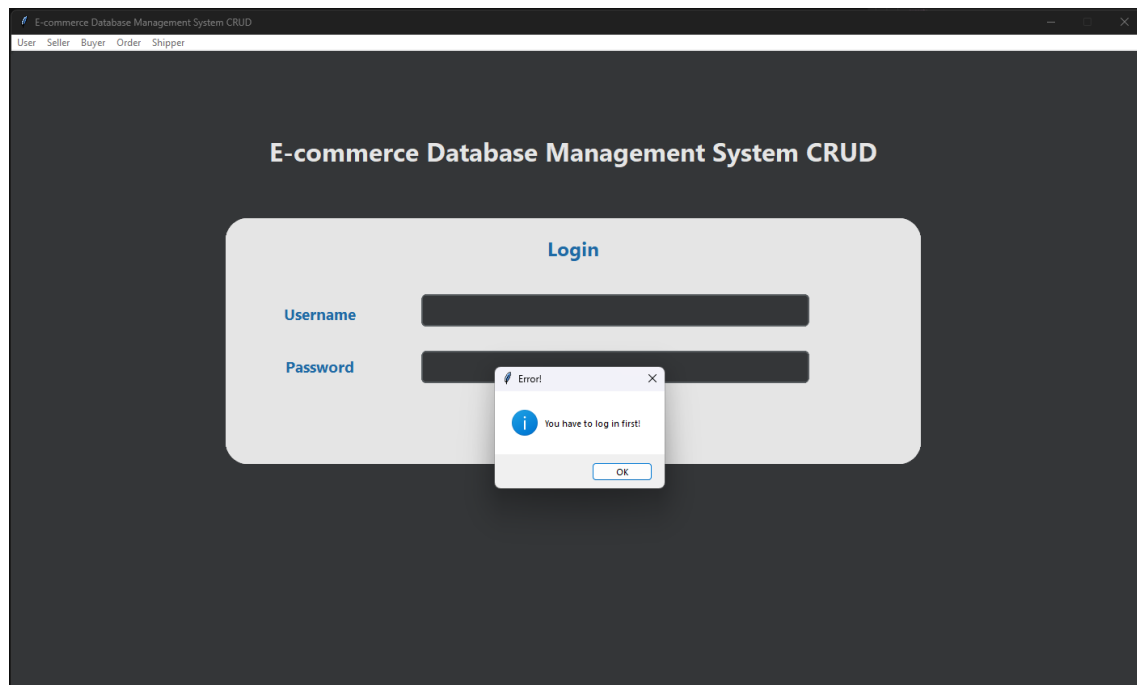
Python codes to call procedures

We also separate the user of this app into 3 classes:

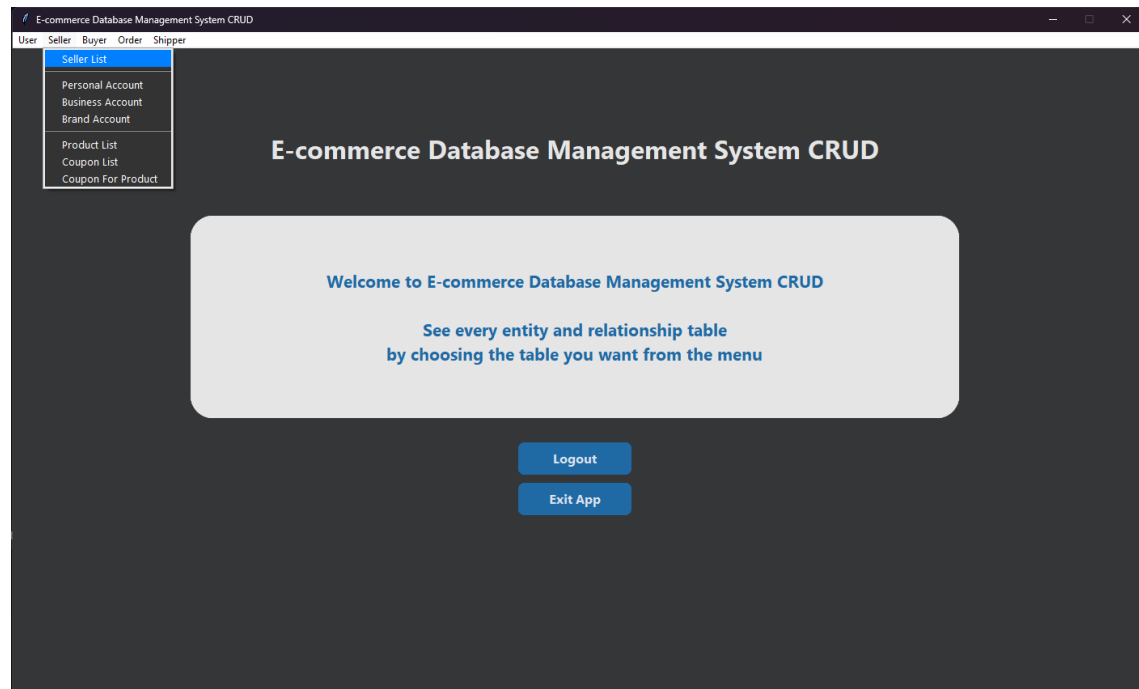
- Admin: Can view all tables.
- Seller: Can view all tables related to them, orders, and shippers.
- Buyer: Can view all tables related to them and orders.



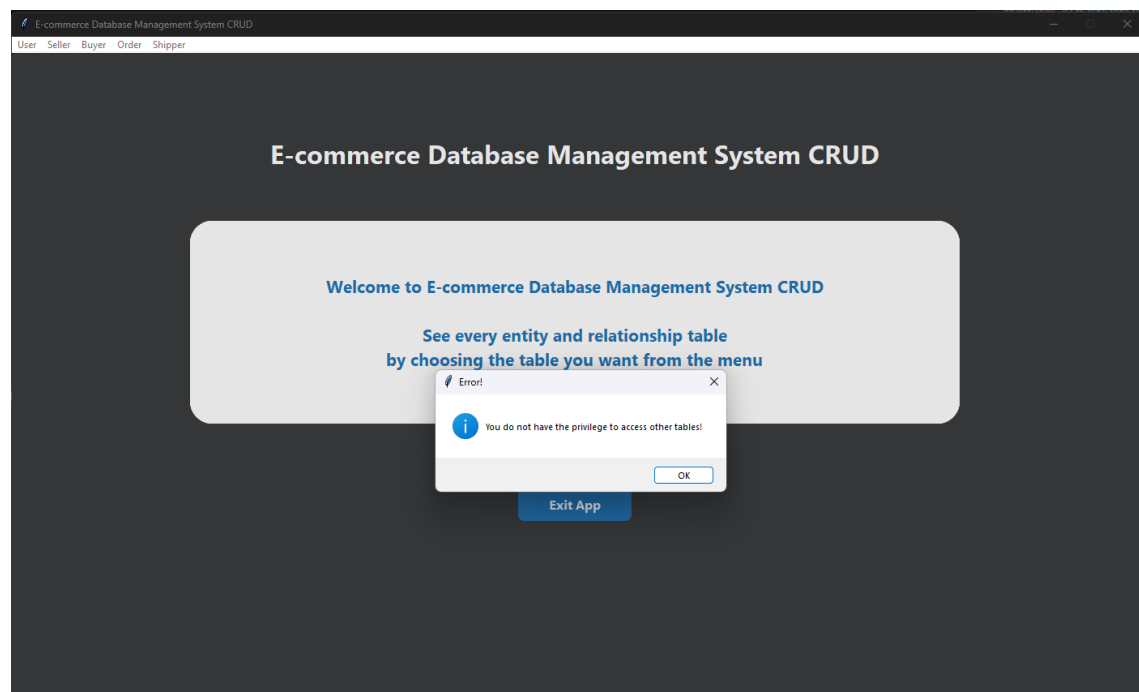
App GUI



View table before logging in



Logged in as a Buyer



View Seller tables as a Buyer



E-commerce Database Management System CRUD

User Seller Buyer Order Shipper

E-commerce Database Management System CRUD

USER TABLE

ID	000008	Add
Name	Phan Hoang Nam	Update
Sex	M	Delete
Birthdate	2008-05-04 00:00:00	Search
Phone	0902xxxxx4	Select
Email	email7@gmail.com	Back To Landing
Address	315 Vo Van Ngan, P.Linh Chieu, Q.Thu Duc, TP.HCM	

ID	Name	Sex	Birthdate	Phone	Email	Address
000000	Pham Anh Quan	M	1990-12-09 00:00:00	0909xxxxx2	email0@gmail.com	65 Ham Nghi, P.Nguyen Thai Binh, Q.1, TPHCM
000001	Nguyen Hai Dang	M	2005-10-07 00:00:00	0909xxxxx6	email1@gmail.com	109 Tran Duy Hung, P.Trung Hoa, Q.Cau Giay, Ha Noi
000002	Nguyen Manh Dan	M	1995-06-17 00:00:00	0909xxxxx8	email2@gmail.com	1006 3 Thang 2, P.14, Q.10, TPHCM
000003	Truong Nguyen Hung Thinh	M	1998-11-29 00:00:00	0903xxxxx6	email3@gmail.com	84 Nui Thanh, P.Hoa Cuong Bac, Q.Hai Chau, Da Nang
000004	Dao Anh Tuan	M	2001-03-23 00:00:00	0903xxxxx1	email4@gmail.com	241 Dao Duy Tu, P.7, Q.10, TPHCM
000005	Bui Quoc Minh Quan	M	1987-01-21 00:00:00	0902xxxxx7	email5@gmail.com	491 Tran Nguyen Han, P.Ho Nam, Q.Le Chan, Hai Phong
000006	Nguyen Ha Trong Hieu	M	1988-12-13 00:00:00	0903xxxxx5	email6@gmail.com	178 Le Thanh Nghi, P.Dong Tam, Q.Hai Ba Trung, Ha Noi
000007	Chu Gia Vu Khanh	M	2008-05-04 00:00:00	0902xxxxx4	email7@gmail.com	315 Vo Van Ngan, P.Linh Chieu, Q.Thu Duc, TP.HCM

E-commerce Database Management System CRUD

User Seller Buyer Order Shipper

E-commerce Database Management System CRUD

USER TABLE

ID	000008	Add
Name	Phan Hoang Nam	Update
Sex	M	Delete
Birthdate	2008-05-04 00:00:00	Search
Phone	0902xxxxx4	Select
Email	email7@gmail.com	Back To Landing
Address	315 Vo Van Ngan, P.Linh Chieu, Q.Thu Duc, TP.HCM	

ID	Name	Sex	Birthdate	Phone	Email	Address
000001	Nguyen Hai Dang	M	2005-10-07 00:00:00	0909xxxxx6	email1@gmail.com	109 Tran Duy Hung, P.Trung Hoa, Q.Cau Giay, Ha Noi
000002	Nguyen Manh Dan	M	1995-06-17 00:00:00	0909xxxxx8	email2@gmail.com	1006 3 Thang 2, P.14, Q.10, TPHCM
000003	Truong Nguyen Hung Thinh	M	1998-11-29 00:00:00	0903xxxxx6	email3@gmail.com	84 Nui Thanh, P.Hoa Cuong Bac, Q.Hai Chau, Da Nang
000004	Dao Anh Tuan	M	2001-03-23 00:00:00	0903xxxxx1	email4@gmail.com	241 Dao Duy Tu, P.7, Q.10, TPHCM
000005	Bui Quoc Minh Quan	M	1987-01-21 00:00:00	0902xxxxx7	email5@gmail.com	491 Tran Nguyen Han, P.Ho Nam, Q.Le Chan, Hai Phong
000006	Nguyen Ha Trong Hieu	M	1988-12-13 00:00:00	0903xxxxx5	email6@gmail.com	178 Le Thanh Nghi, P.Dong Tam, Q.Hai Ba Trung, Ha Noi
000007	Chu Gia Vu Khanh	M	2008-05-04 00:00:00	0902xxxxx4	email7@gmail.com	315 Vo Van Ngan, P.Linh Chieu, Q.Thu Duc, TP.HCM
000008	Phan Hoang Nam	M	2008-05-04 00:00:00	0902xxxxx4	email7@gmail.com	315 Vo Van Ngan, P.Linh Chieu, Q.Thu Duc, TP.HCM

Add a user



E-commerce Database Management System CRUD

User Seller Buyer Order Shipper

E-commerce Database Management System CRUD

USER TABLE

ID

000008

Name

Phan Hoang Nam Khoa

Sex

M

Birthdate

2008-05-04 00:00:00

Phone

0902xxxxx4

Email

email7@gmail.com

Address

315 Vo Van Ngan, P.Linh Chieu, Q.Thu Duc, TP.HCM

Add

Update

Delete

Search

Select

Back To Landing

Warning!

This will delete the data directly from the table. Do you want to continue?

Yes No

ID	Name	Sex	Birthdate	Phone	Email	Address
000001	Nguyen Hai Dang	M	2005-10-07 00:00:00	0909xxxxx6	email1@gmail.com	109 Tran Duy Hung, P.Trung Hoa, Q.Cau Giay, Ha Noi
000002	Nguyen Manh Dan	M	1995-06-17 00:00:00	0909xxxxx8	email2@gmail.com	1006 3 Thang 2, P.14, Q.10, TPHCM
000003	Truong Nguyen Hung Thinh	M	1998-11-29 00:00:00	0903xxxxx6	email3@gmail.com	84 Nui Thanh, P.Hoa Cuong Bac, Q.Hai Chau, Da Nang
000004	Dao Anh Tuan	M	2001-03-23 00:00:00	0903xxxxx1	email4@gmail.com	241 Dao Duy Tu, P.7, Q.10, TPHCM
000005	Bui Quoc Minh Quan	M	1987-01-21 00:00:00	0902xxxxx7	email5@gmail.com	491 Tran Nguyen Han, P.Ho Nam, Q.Le Chan, Hai Phong
000006	Nguyen Ha Trong Hieu	M	1988-12-13 00:00:00	0903xxxxx5	email6@gmail.com	178 Le Thanh Nghi, P.Dong Tam, Q.Hai Ba Trung, Ha Noi
000007	Chu Gia Vu Khanh	M	2008-05-04 00:00:00	0902xxxxx4	email7@gmail.com	315 Vo Van Ngan, P.Linh Chieu, Q.Thu Duc, TP.HCM
000008	Phan Hoang Nam Khoa	M	2008-05-04 00:00:00	0902xxxxx4	email7@gmail.com	315 Vo Van Ngan, P.Linh Chieu, Q.Thu Duc, TP.HCM

E-commerce Database Management System CRUD

User Seller Buyer Order Shipper

E-commerce Database Management System CRUD

USER TABLE

ID

000008

Name

Phan Hoang Nam Khoa

Sex

M

Birthdate

2008-05-04 00:00:00

Phone

0902xxxxx4

Email

email7@gmail.com

Address

315 Vo Van Ngan, P.Linh Chieu, Q.Thu Duc, TP.HCM

Add

Update

Delete

Search

Select

Back To Landing

ID	Name	Sex	Birthdate	Phone	Email	Address
000000	Pham Anh Quan	M	1990-12-09 00:00:00	0909xxxxx2	email0@gmail.com	65 Ham Nghi, P.Nguyen Thai Binh, Q.1, TPHCM
000001	Nguyen Hai Dang	M	2005-10-07 00:00:00	0909xxxxx6	email1@gmail.com	109 Tran Duy Hung, P.Trung Hoa, Q.Cau Giay, Ha Noi
000002	Nguyen Manh Dan	M	1995-06-17 00:00:00	0909xxxxx8	email2@gmail.com	1006 3 Thang 2, P.14, Q.10, TPHCM
000003	Truong Nguyen Hung Thinh	M	1998-11-29 00:00:00	0903xxxxx6	email3@gmail.com	84 Nui Thanh, P.Hoa Cuong Bac, Q.Hai Chau, Da Nang
000004	Dao Anh Tuan	M	2001-03-23 00:00:00	0903xxxxx1	email4@gmail.com	241 Dao Duy Tu, P.7, Q.10, TPHCM
000005	Bui Quoc Minh Quan	M	1987-01-21 00:00:00	0902xxxxx7	email5@gmail.com	491 Tran Nguyen Han, P.Ho Nam, Q.Le Chan, Hai Phong
000006	Nguyen Ha Trong Hieu	M	1988-12-13 00:00:00	0903xxxxx5	email6@gmail.com	178 Le Thanh Nghi, P.Dong Tam, Q.Hai Ba Trung, Ha Noi
000007	Chu Gia Vu Khanh	M	2008-05-04 00:00:00	0902xxxxx4	email7@gmail.com	315 Vo Van Ngan, P.Linh Chieu, Q.Thu Duc, TP.HCM

Delete a new user



E-commerce Database Management System CRUD

User Seller Buyer Order Shipper

E-commerce Database Management System CRUD

USER TABLE

ID

000008

Add

Name

Phan Hoang Nam Khoa

Update

Sex

M

Delete

Birthdate

2008-05-04 00:00:00

Search

Phone

0902xxxxx4

Select

Email

email7@gmail.com

Back To Landing

Address

315 Vo Van Ngan, P.Linh Chieu, Q.Thu Duc, TP.HCM

ID	Name	Sex	Birthdate	Phone	Email	Address
000001	Nguyen Hai Dang	M	2005-10-07 00:00:00	0909xxxxx6	email1@gmail.com	109 Tran Duy Hung, P.Trung Hoa, Q.Cau Giay, Ha Noi
000002	Nguyen Manh Dan	M	1995-06-17 00:00:00	0909xxxxx8	email2@gmail.com	1006 3 Thang 2, P.14, Q.10, TPHCM
000003	Truong Nguyen Hung Thinh	M	1998-11-29 00:00:00	0903xxxxx6	email3@gmail.com	84 Nui Thanh, P.Hoa Cuong Bac, Q.Hai Chau, Da Nang
000004	Dao Anh Tuan	M	2001-03-23 00:00:00	0903xxxxx1	email4@gmail.com	241 Dao Duy Tu, P.7, Q.10, TPHCM
000005	Bui Quoc Minh Quan	M	1987-01-21 00:00:00	0902xxxxx7	email5@gmail.com	491 Tran Nguyen Han, P.Ho Nam, Q.Le Chan, Hai Phong
000006	Nguyen Ha Trong Hieu	M	1988-12-13 00:00:00	0903xxxxx5	email6@gmail.com	178 Le Thanh Nghi, P.Dong Tam, Q.Hai Ba Trung, Ha Noi
000007	Chu Gia Vu Khanh	M	2008-05-04 00:00:00	0902xxxxx4	email7@gmail.com	315 Vo Van Ngan, P.Linh Chieu, Q.Thu Duc, TP.HCM
000008	Phan Hoang Nam	M	2008-05-04 00:00:00	0902xxxxx4	email7@gmail.com	315 Vo Van Ngan, P.Linh Chieu, Q.Thu Duc, TP.HCM

E-commerce Database Management System CRUD

User Seller Buyer Order Shipper

E-commerce Database Management System CRUD

USER TABLE

ID

000008

Add

Name

Phan Hoang Nam Khoa

Update

Sex

M

Delete

Birthdate

2008-05-04 00:00:00

Search

Phone

0902xxxxx4

Select

Email

email7@gmail.com

Back To Landing

Address

315 Vo Van Ngan, P.Linh Chieu, Q.Thu Duc, TP.HCM

ID	Name	Sex	Birthdate	Phone	Email	Address
000001	Nguyen Hai Dang	M	2005-10-07 00:00:00	0909xxxxx6	email1@gmail.com	109 Tran Duy Hung, P.Trung Hoa, Q.Cau Giay, Ha Noi
000002	Nguyen Manh Dan	M	1995-06-17 00:00:00	0909xxxxx8	email2@gmail.com	1006 3 Thang 2, P.14, Q.10, TPHCM
000003	Truong Nguyen Hung Thinh	M	1998-11-29 00:00:00	0903xxxxx6	email3@gmail.com	84 Nui Thanh, P.Hoa Cuong Bac, Q.Hai Chau, Da Nang
000004	Dao Anh Tuan	M	2001-03-23 00:00:00	0903xxxxx1	email4@gmail.com	241 Dao Duy Tu, P.7, Q.10, TPHCM
000005	Bui Quoc Minh Quan	M	1987-01-21 00:00:00	0902xxxxx7	email5@gmail.com	491 Tran Nguyen Han, P.Ho Nam, Q.Le Chan, Hai Phong
000006	Nguyen Ha Trong Hieu	M	1988-12-13 00:00:00	0903xxxxx5	email6@gmail.com	178 Le Thanh Nghi, P.Dong Tam, Q.Hai Ba Trung, Ha Noi
000007	Chu Gia Vu Khanh	M	2008-05-04 00:00:00	0902xxxxx4	email7@gmail.com	315 Vo Van Ngan, P.Linh Chieu, Q.Thu Duc, TP.HCM
000008	Phan Hoang Nam Khoa	M	2008-05-04 00:00:00	0902xxxxx4	email7@gmail.com	315 Vo Van Ngan, P.Linh Chieu, Q.Thu Duc, TP.HCM

Update a user's data



E-commerce Database Management System CRUD

User Seller Buyer Order Shipper

E-commerce Database Management System CRUD

USER TABLE

ID

000008

Add

Name

Phan Hoang Nam Khoa

Update

Sex

M

Delete

Birthdate

2008-05-04 00:00:00

Search

Phone

0902xxxxx4

Select

Email

email7@gmail.com

Back To Landing

Address

315 Vo Van Ngan, P.Linh Chieu, Q.Thu Duc, TP.HCM

ID	Name	Sex	Birthdate	Phone	Email	Address
000000	Pham Anh Quan	M	1990-12-09 00:00:00	0909xxxxx2	email0@gmail.com	65 Ham Nghi, P.Nguyen Thai Binh, Q.1, TPHCM
000001	Nguyen Hai Dang	M	2005-10-07 00:00:00	0909xxxxx6	email1@gmail.com	109 Tran Duy Hung, P.Trung Hoa, Q.Cau Giay, Ha Noi
000002	Nguyen Manh Dan	M	1995-06-17 00:00:00	0909xxxxx8	email2@gmail.com	1006 3 Thang 2, P.14, Q.10, TPHCM
000003	Truong Nguyen Hung Thinh	M	1998-11-29 00:00:00	0903xxxxx6	email3@gmail.com	84 Nui Thanh, P.Hoa Cuong Bac, Q.Hai Chau, Da Nang
000004	Dao Anh Tuan	M	2001-03-23 00:00:00	0903xxxxx1	email4@gmail.com	241 Dao Duy Tu, P.7, Q.10, TPHCM
000005	Bui Quoc Minh Quan	M	1987-01-21 00:00:00	0902xxxxx7	email5@gmail.com	491 Tran Nguyen Han, P.Ho Nam, Q.Le Chan, Hai Phong
000006	Nguyen Ha Trong Hieu	M	1988-12-13 00:00:00	0903xxxxx5	email6@gmail.com	178 Le Thanh Nghi, P.Dong Tam, Q.Hai Ba Trung, Ha Noi
000007	Chu Gia Vu Khanh	M	2008-05-04 00:00:00	0902xxxxx4	email7@gmail.com	315 Vo Van Ngan, P.Linh Chieu, Q.Thu Duc, TP.HCM

E-commerce Database Management System CRUD

User Seller Buyer Order Shipper

E-commerce Database Management System CRUD

USER TABLE

ID

000007

Add

Name

Chu Gia Vu Khanh

Update

Sex

M

Delete

Birthdate

2008-05-04 00:00:00

Search

Phone

0902xxxxx4

Select

Email

email7@gmail.com

Back To Landing

Address

315 Vo Van Ngan, P.Linh Chieu, Q.Thu Duc, TP.HCM

ID	Name	Sex	Birthdate	Phone	Email	Address
000000	Pham Anh Quan	M	1990-12-09 00:00:00	0909xxxxx2	email0@gmail.com	65 Ham Nghi, P.Nguyen Thai Binh, Q.1, TPHCM
000001	Nguyen Hai Dang	M	2005-10-07 00:00:00	0909xxxxx6	email1@gmail.com	109 Tran Duy Hung, P.Trung Hoa, Q.Cau Giay, Ha Noi
000002	Nguyen Manh Dan	M	1995-06-17 00:00:00	0909xxxxx8	email2@gmail.com	1006 3 Thang 2, P.14, Q.10, TPHCM
000003	Truong Nguyen Hung Thinh	M	1998-11-29 00:00:00	0903xxxxx6	email3@gmail.com	84 Nui Thanh, P.Hoa Cuong Bac, Q.Hai Chau, Da Nang
000004	Dao Anh Tuan	M	2001-03-23 00:00:00	0903xxxxx1	email4@gmail.com	241 Dao Duy Tu, P.7, Q.10, TPHCM
000005	Bui Quoc Minh Quan	M	1987-01-21 00:00:00	0902xxxxx7	email5@gmail.com	491 Tran Nguyen Han, P.Ho Nam, Q.Le Chan, Hai Phong
000006	Nguyen Ha Trong Hieu	M	1988-12-13 00:00:00	0903xxxxx5	email6@gmail.com	178 Le Thanh Nghi, P.Dong Tam, Q.Hai Ba Trung, Ha Noi
000007	Chu Gia Vu Khanh	M	2008-05-04 00:00:00	0902xxxxx4	email7@gmail.com	315 Vo Van Ngan, P.Linh Chieu, Q.Thu Duc, TP.HCM

Select a user