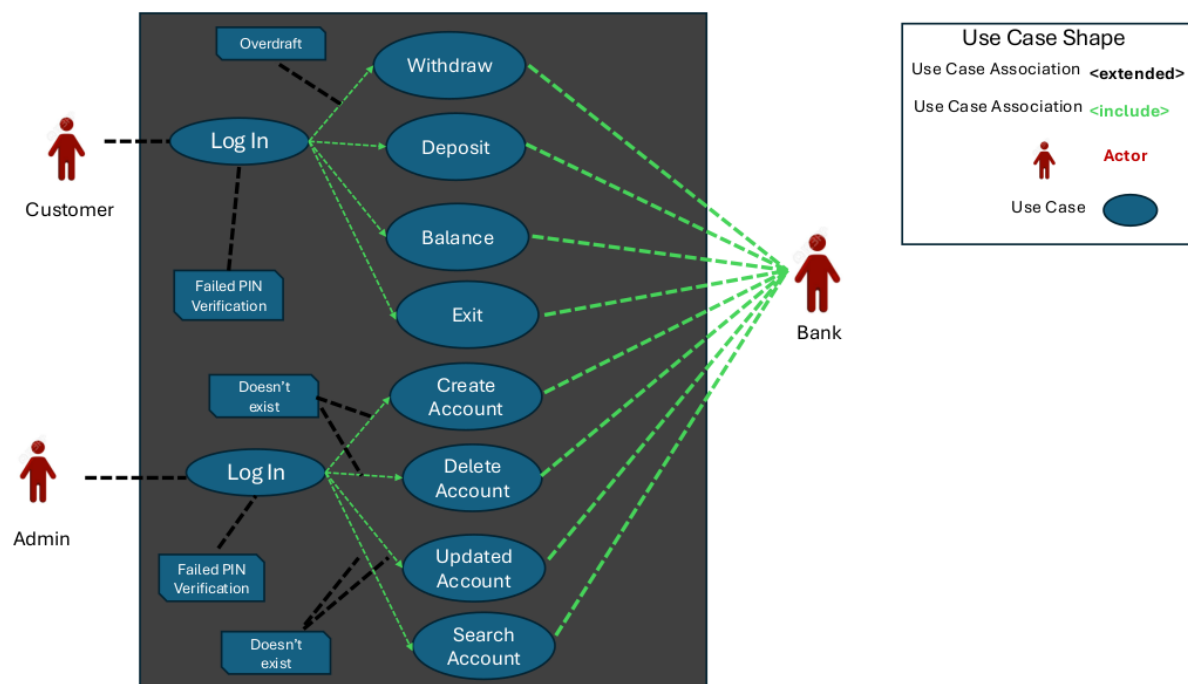


ATM System by WPI

About this project

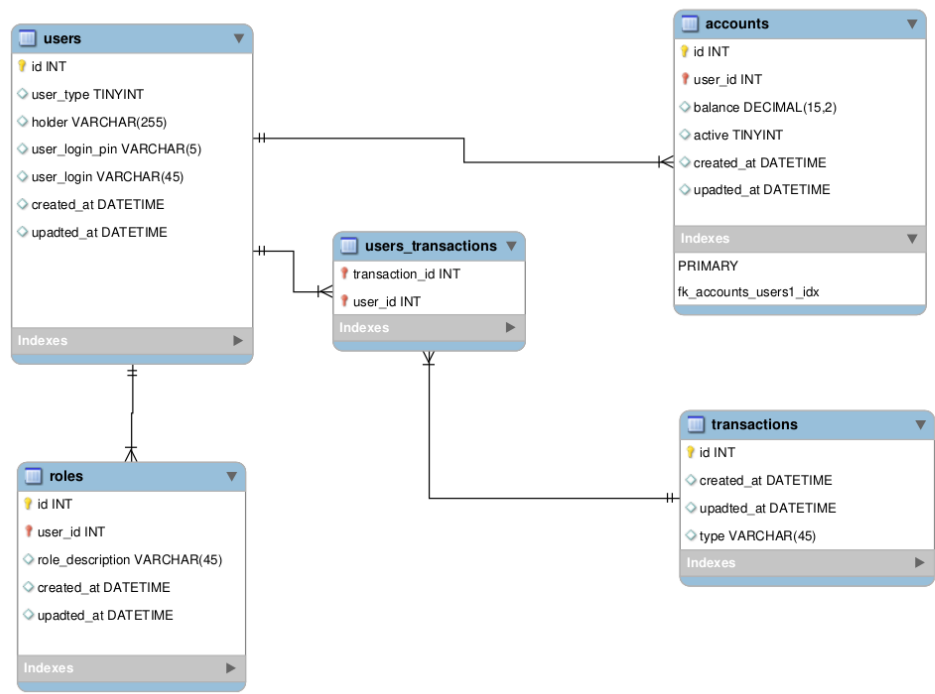
For this task, you are going to implement an ATM system that allows users to manage their accounts. There are two types of users: Customers and Administrators. Both are presented with their own menus (after login). Customers can use the system to withdraw cash, deposit cash, and get their current balance. For simplicity, assume a customer can have only 1 account (so they can't have a savings AND checking account or a Joint account with a spouse, for example). Administrators can view, create, delete, and update accounts of customers. All data should be stored in a MySQL database and the program is a console application (not a web app).

ATM System Use Case Diagrams



ATM ERD

Wed Mar 6 09:56:39 2024, New Model - EER Diagram (part 1 of 2)



Dump file

db_stuff/atm.sql

Screen Shoots - Admin Menu

- Failed login

```
Select an option: 1
Creating a new account:
Login: jose1987
Pin Code: 12345
Holder's Name: Jose Quintanilla
Starting Balance: 5230
Status (Active/Inactive): 1
"Account Successfully Created - the account number assigned is: 12
Administrator Options:
```

- Log in as admin1, 12345

```

Login: admin1
Pin code: 12345
Account Description: Admin
User ID: 3
Administrator Options:
---Create New Account
---Delete Existing Account
---Update Account Information
---Search for Account
---Exit
Select an option: |

```

- Add new Account

```

Select an option: 1
Creating a new account:
Login: jose1987
Pin Code: 12345
Holder's Name: Jose Quintanilla
Starting Balance: 5230
Status (Active/Inactive): 1
"Account Successfully Created - the account number assigned is: 12
Administrator Options:

```

- Update, here we use the user id we just create 19 (not the account number)

```

Select an option: 3
Updating account information:
Enter the User account number to update: 19
Login: jose11
Pin Code: 12345
Holder's Name: Jose Q
Status (Active - true/Inactive - false): false
User details updated successfully.
*****
Holder: Jose Q
Login: jose11
Pin Code: 12345
Status: false
*****

```

- Delete account, use again 19

```

Select an option: 2
Deleting an existing account:
Enter the user account number to delete: 19
You wish to delete the account held by John Doe. If this information is correct, please
re-enter the account number: 19
19
User with ID 19 deleted successfully.
Account Deleted Successfully

```

- Exit Admin menu

```

Administrator Options:
1----Create New Account
2----Delete Existing Account
3----Update Account Information
4----Search for Account
5----Exit
Select an option: 5
Exiting admin menu.

Process finished with exit code 0

```

- Search User Id 2

```

Administrator Options:
1----Create New Account
2----Delete Existing Account
3----Update Account Information
4----Search for Account
5----Exit
Select an option: 4
Enter the account number to search: 2
The account information is:
Account #2
Holder: Rodrigo
Administrator Options:

```

Customer Menu (User 2)

- Withdraw

-

```
Customer Options:
1----Withdraw Cash
3----Deposit Cash
4----Display Balance
5----Exit
Select an option: 1
Enter the withdrawal amount: 200
*****
Balance: 750.0
Account Number: 2
Holder: Rodrigo
Timestamp: 2024-03-06 20:45:03
*****
*****
Account #2
Date: 01/29/2024
Withdrawn: 200.0
Balance: 550.0
Cash Successfully Withdrawn
Account #2
Date: 01/29/2024
Withdrawn: 200.0
Balance: 550.0
*****
```

- Deposit

```
5----Exit
Select an option: 3
Enter the cash amount to deposit: 1000
*****
Balance: 550.0
Account Number: 2
Holder: Rodrigo
Timestamp: 2024-03-06 20:48:06
*****
*****
Cash Deposited Successfully.
Account #2
Date: 01/29/2024
Deposited: 1000.0
Balance: 1550.0
*****
```

- Get Balance

```
Balance: 1550.0
*****
Customer Options:
1---Withdraw Cash
3---Deposit Cash
4---Display Balance
5---Exit
Select an option: 4
*****
Balance: 1550.0
Account Number: 2
Holder: Rodrigo
Timestamp: 2024-03-06 20:50:01
```

- Exit Customer Menu

```
Timestamp: 2024-03-06 20:50:01
*****
Customer Options:
1---Withdraw Cash
3---Deposit Cash
4---Display Balance
5---Exit
Select an option: 5
Exiting. Goodbye!

Process finished with exit code 0
|
```