

# ATM LOGIN SYSTEM

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# GREETINGS!

Introducing the ATM Management System: A user-friendly digital banking solution for effortless financial transactions and secure account management.

A user guide is provided that contains all necessary instructions to create an account, manage transactions, and safeguard the PIN.

WELCOME TO THE ONLINE BANKING SYSTEM!

## USER GUIDE:

1. User must deposit more than PKR 50 to create an account and to make a deposition anytime later. After successful account creation, your username, user id
2. Your user id is your account number.
3. In case of three wrong pincode attempts, your account will be blocked and hence, become inaccessible. You will have to create a new account then.
4. 1% tax will be applied on the withdrawal amount.
5. You can change your four digit pin code if required. In this case, please note your new pin code for further reference.

# FEATURES

1. Account Creation: Users can create accounts by providing their name, depositing a minimum amount, and receiving a unique username, user ID, and PIN code.
2. Account Access: Users can log in using either their username or user ID and a PIN code.
3. Deposit: Users can deposit funds into their accounts.
4. Withdraw: Users can withdraw funds, with a 1% tax applied.
5. Update PIN: Users can change their PIN codes for added security.
6. Account Details: Users can view their account details, including balance and status.
7. Transaction History: Users can check their transaction history.
- 8.Account Lock: After three incorrect PIN attempts, an account gets blocked.
9. User Guide: The program provides a user guide for clear instructions.
10. User-Friendly Interface: The code includes user prompts and menus for ease of interaction.

# MAIN MENU

- Displays Options: It shows a menu with three options: Create Account, Check-in, and Exit.
- User Choice: It takes input from the user to choose one of these options.
- Action: Depending on the choice, it performs actions like creating an account, logging in, or exiting the program.

```
MAIN MENU:  
1. Create Account  
2. Checkin  
3. Exit  
  
Enter your choice: |
```

# ACCOUNT CREATION

Users can create an account by providing essential details.

- User Name Input: The user enters their name.
- Deposit Amount: The user must deposit more than PKR 50.
- PIN Code: The user chooses a four-digit PIN code.
- Account Generation: A unique username, user ID, and PIN code are generated for the user.
- Account Record: User details are saved in a CSV file for future reference.
- Confirmation: The user receives confirmation and account details for safekeeping.

Account created successfully.

Congratulations! You have successfully registered! For further reference, the user is advised to save the following information:

Your username is: 1887Rabiya

Your user id / account number is: 3305542475

Your pincode is: 1111

Your account is now ACTIVE.

# Say HELLO to your account by checking in!

- User Identification: It prompts the user to enter their user ID or username to log in.
- Validation: It verifies the provided user ID or username against the stored data.
- PIN Entry: If the user is valid, it asks the user to enter their PIN code.
- Security: It has security measures in place, such as limiting PIN attempts and blocking the account after three wrong attempts.
- Access Granted: If the user successfully enters the correct PIN, it grants access to the user's account and displays a submenu for various banking operations.
- Account Status: It checks and handles cases where the account might be blocked due to too many wrong PIN attempts.

```
MAIN MENU:  
1. Create Account  
2. Checkin  
3. Exit  
  
Enter your choice: 2  
  
Enter your user id or username: 1887Rabiya  
Enter your four-digit PIN code: 1111  
You have successfully checked in.
```

# THE NEXT PART? SUB MENU!

- User Options: It displays a list of banking operations that the user can choose from.
- Operation Selection: It prompts the user to select an operation by entering a corresponding number.
- Operation Execution: Based on the user's choice, it executes various banking operations like checking account details, depositing money, withdrawing funds, updating the PIN code, or checking the account statement.
- Continuation: After completing the selected operation, it asks the user if they want to continue with another operation or log out.

```
SUB MENU:  
1. Account details  
2. Deposit  
3. Withdraw  
4. Update PIN  
5. Check statement  
6. Logout  
  
Please enter your choice: |
```

# Have a look at your account details :)

Account Details:

Name: Rabiya

Username: 1887Rabiya

User ID: 3305542475

Balance: 1000.0

Currency: PKR

Status: Active

Do you want to select any other option from submenu? Type 'yes' or 'no': |

Do you want to select any other option from submenu? Type 'yes' or 'no': *no*

See you later alligator! You are redirected to main menu now.



# Hey richie rich, want to save up some money in the account?

**Deposit:** Users can choose this option to add money to their account. They will be prompted to enter the deposit amount, and the deposited amount will be added to their balance.

```
SUB MENU:
```

1. Account details
2. Deposit
3. Withdraw
4. Update PIN
5. Check statement
6. Logout

```
Please enter your choice: 2
```

```
Please enter the amount you want to deposit: 10000
```

```
You have successfully deposited: 10000.00 PKR.
```

# Hello there, withdrawal syndrome!

**Withdraw:** This option enables users to withdraw money from their account. They need to enter the withdrawal amount, and a 1% tax is applied to the withdrawal amount. The remaining balance is updated accordingly.

```
SUB MENU:
```

1. Account details
2. Deposit
3. Withdraw
4. Update PIN
5. Check statement
6. Logout

```
Please enter your choice: 3
```

```
Please enter the amount you want to withdraw: 100
```

```
You have successfully withdrawn: 100.00 PKR & tax applied is: 1.00 PKR.
```

# Need a new pin? I got you covered!

**Update PIN:** Users can change their four-digit PIN code by selecting this option. They need to enter their new PIN, and the code is updated for future logins.

```
Please enter your choice: 4
```

```
Enter your new four-digit PIN code: 1111
```

```
The new PIN code is the same as the previous one. Please choose a different PIN code.
```

```
Enter your new four-digit PIN code: 2221
```

```
PIN code updated.
```

```
|
```

# Time to check the bank statement! (:

**Check Statement:** This option provides users with their account statement. It includes their recent transaction history, such as the type of transaction (deposit or withdrawal) and the transaction amount.

## ACCOUNT STATEMENT:

User: Rabiya

Username: 1887Rabiya

User ID: 3305542475

Account Status: Active

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## TRANSACTION HISTORY:

Last Transaction type: Withdraw

Last Transaction amount: 100.0 PKR

# Time to logout. Sorry to see you go! :(

**Logout:** Choosing this option logs the user out of their account, returning them to the main menu.

```
Please enter your choice: 6
```

```
You have logged out of your account.
```

```
You'll be redirected to the main menu now.
```

```
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```

## In a nutshell:

**This Python project is an ATM login system that allows users to authenticate themselves and access their accounts using a CSV file for data storage. It serves as a basic representation of an ATM's login functionality and can be used as a starting point for more comprehensive banking systems.**

**Project Link: <https://github.com/RabiyaAkhtar/ATM-Login-System>**