SMH Bank

Withdrawal Tutorial

Step 1. Run the Program

The first step is to execute the ATM program. You can do this either by opening "__main__.py" in a file viewer, or by typing "python3 __main__.py" or "python __main__.py" to execute the program using python3, depending on what system you are running on.

Login

[pin]:

[username]:

<Login>

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<Sian Up>

<Ouit>

Step 1. Run the Program

If the program doesn't run then this means that the ATM is being executed in another process. The ATM cannot be executed twice at the same time, so before running the program make sure that no instance of the program is already running.

<pre>[username]: [pin]:</pre>	Login		
	[username]:		
<login> <sign up=""> <quit></quit></sign></login>	[pin]:		
	<login></login>	<sign up=""></sign>	<quit></quit>
		_	_

You should now be at the Login screen. In this screen you can enter your username and pin in the input fields. To move the focus between input fields and buttons, press the "Tab" key and "Shift+Tab" keys. To click on a button, move the focus to the button and click the "Enter" key, or if your platform supports it, then

hover over the button with your cursor and left click. The username field is case sensitive and usernames which are not alphanumeric or do not start with a letter are not valid. The pin field must be four digits (0-9).

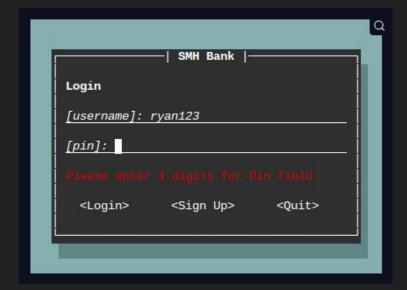


The images below depicts a user entering invalid usernames and the associated error messages. If you see one of these error messages, make sure the username entered starts with a letter and only consists of numbers and letters, eg. ryan123.





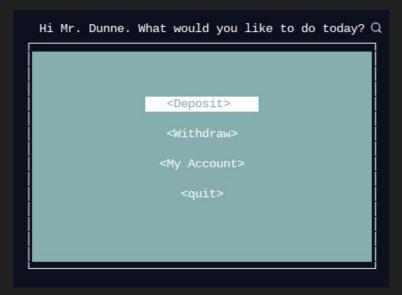
The images below depicts a user entering invalid pins and the associated error messages. If you see one of these error messages, make sure the pin entered is exactly four digits (0-9), eg. 1234.





Once you have entered your username and pin and there is no error message, click on the Login button to login to the ATM (left image). You will be taken to the Menu screen (right image).





If you are presented with the error message "Incorrect username or pin" when you try to login, this means that you have entered either your username or pin incorrectly. Check that you have entered both fields correctly.





If you do not already have an account with this ATM, then you will first have to sign up to create a new account. When you are at the login screen, click on the Sign Up button (left image), and you will be taken to the Sign Up screen (right image).





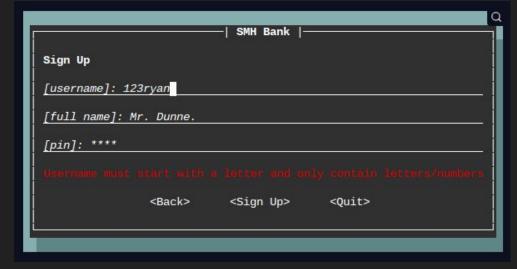
You should now be at the sign up screen. In this screen, you can enter the username of your new account, your full name, and the pin for your new account. All of these fields are required and cannot be empty or you will not be able to sign up. The username field is case sensitive and usernames which are not

alphanumeric or do not start with a letter are not valid. The username chosen must also be unique, that is, if another user already has that username, then you will not be able to sign up with that username. The pin field must be four digits (0-9).



The images below depicts a user entering invalid usernames and the associated error messages. If you see one of these error messages, make sure the username entered starts with a letter and only consists of numbers and letters, eg. ryan123.

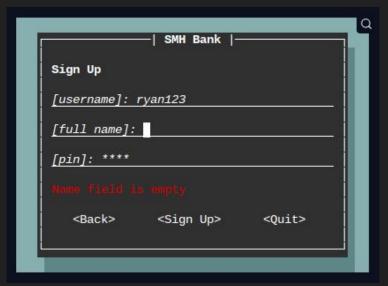




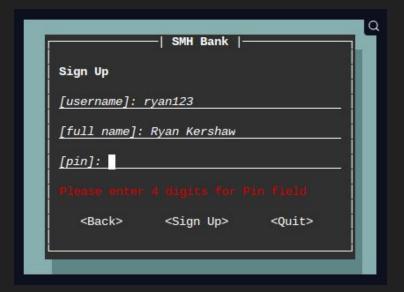
If the username entered has already been taken, that is, another user already has that username, then the error message "Username is already taken" will be shown and you will not be able to sign up. Please choose a different username.



The images below depicts a user entering an invalid full name and the associated error message. If you see this error message, make sure the full name entered is not empty.

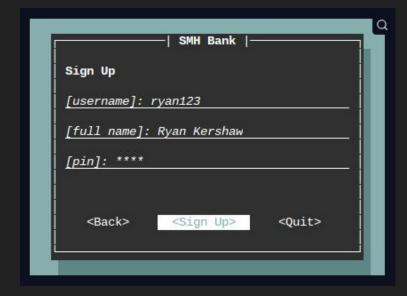


The images below depicts a user entering invalid pins and the associated error messages. If you see one of these error messages, make sure the pin entered is exactly four digits (0-9), eg. 1234.





Once you have entered your username, full name and pin and there is no error message, click on the Sign Up button to sign up to the ATM, creating your new account (left image). You will be taken to the Menu screen (right image).

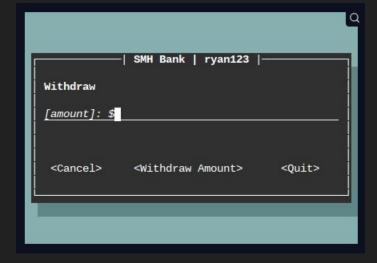




Step 3. Go to Withdrawal Page

You should now be at the Menu screen (left image). Click on the Withdraw button either with your mouse/trackpad or by moving the focus to it using the "up"/"down", or "Tab"/"Shift+Tab" arrow keys then pressing the "Enter" key. You will be taken to the Withdrawal screen (right image).





Withdraw

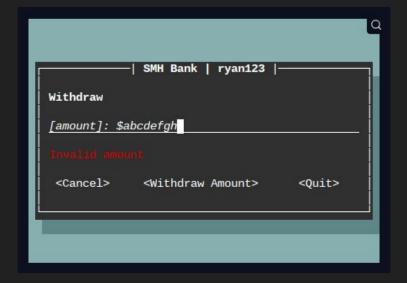
<Cancel>

[amount]: \$100

You should now be at the Withdrawal screen. Enter the amount you want to withdraw in the "amount" text field. You can only withdraw a multiple of \$20 as the ATM only holds \$20 bills. This means you can withdraw \$20, \$40, etc. but not \$1 or \$10, etc.

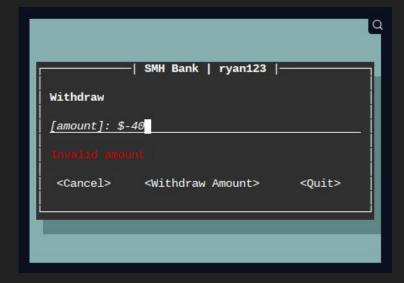
<Ouit>

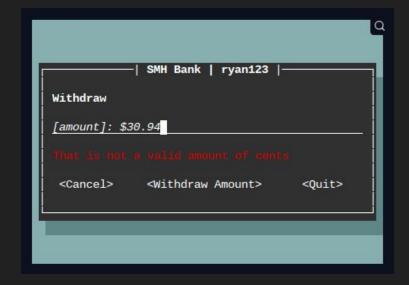
The images below depicts a user entering invalid amounts to withdraw and the associated error messages. If you see one of these error messages, make sure the amount entered is numerical, is positive, and is a multiple of \$20.



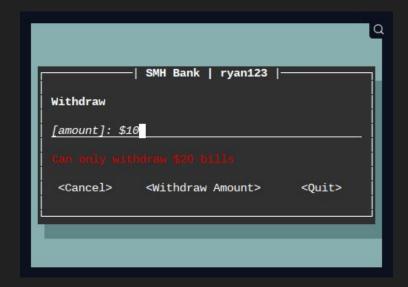


The images below depicts a user entering invalid amounts to withdraw and the associated error messages. If you see one of these error messages, make sure the amount entered is numerical, is positive, and is a multiple of \$20.





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Step 5. Make Withdrawal

Once you have entered the amount you want to withdraw, and there is no error message, click on the "Withdraw Amount" button to withdraw the given amount from your bank account. If the withdrawal is successful, you will be taken back to the Menu screen.

Withdraw

<Cancel>

[amount]: \$20

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<Withdraw Amount>

rvan123

<Ouit>

Step 5. Make Withdrawal

If you are presented with the error message "Insufficient funds" when you try to withdraw the amount, then this means that you do not have enough money in your bank account to make the withdrawal. Either withdraw a smaller amount or cancel the withdrawal. To cancel the withdrawal, click on the "Cancel" button and you will be taken back to the menu screen.

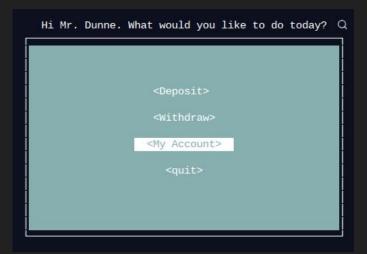
Withdraw

amount1: \$220

<Withdraw Amount>

Step 6. View Transaction

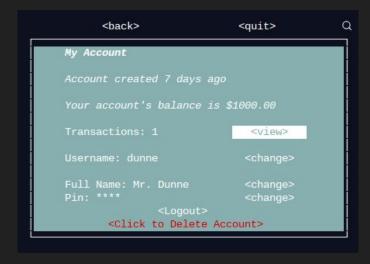
Once you make the withdrawal, this transaction will be recorded and saved. For you to view this transaction, go to the "My Account" screen (right image), which is accessible by clicking on the "My Account" button on the Menu screen (left image).

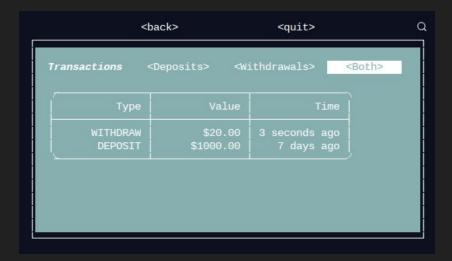




Step 6. View Transaction

You should now be at the "My Account" screen. To view your recent withdrawal transaction, click on the "view" button to the right of the "Transactions" label (left image). You will be taken to the transactions screen (right image).





Step 7. View Receipt

Once you make the withdrawal, a receipt will be printed. This receipt is located inside the receipts directory. To access this recept, open the receipts directory, and

open up the folder with the same name as your username. Inside this folder will be all of the receipt text files printed for your account. Each receipt is named after the timestamp of the transaction. To open your latest withdrawal receipt, open up the

most recently created file in your account's receipts folder.



