

ATM Simulator with GUI

Dennis Yanovski
April 29th 2025
Hassani-Espili, Kamran
CA-PYTDE

1. Project Specifications
2. Design & Documentation
 - Pseudocode
3. User Manual
4. Test Data
5. Additional Features

1

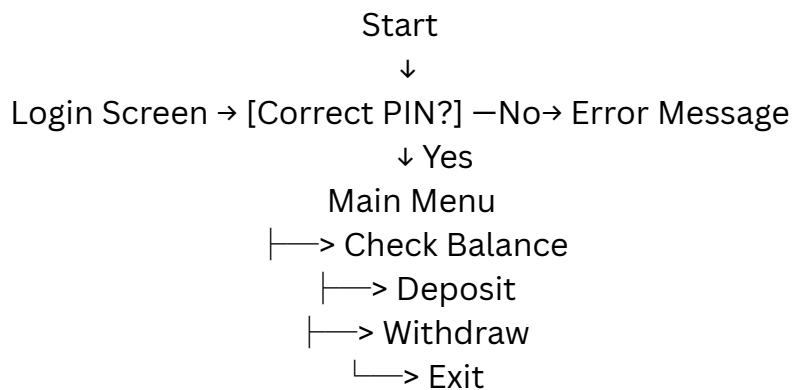
This project is a Python-based ATM Simulator with a graphical user interface using Tkinter.

Users can:

- Log in using a PIN
- Create new accounts
- Check their balance
- Deposit and withdraw money
- Exit the system

The GUI is interactive and user-friendly.

2



Pseudocode Example

FUNCTION login():

pin = ask user for PIN

IF pin == stored_pin:

go to main menu

ELSE:

show error

FUNCTION deposit():

amount = ask user for deposit amount

IF amount > 0:

balance += amount

ELSE:

show error

User Manual

1. Launch the application by running `ATM_GUI.py`.
2. A login screen appears. Enter '1234' as your PIN.
3. You will be taken to the main menu with options:
 - Check Balance
 - Deposit
 - Withdraw
 - Exit
4. Click on each button to perform the action.
5. To exit, click 'Exit'.

Test Data

Test Case 1: Login with correct PIN (1234)

Expected: Success

Test Case 2: Deposit 100

Expected: Balance increases by 100

Test Case 3: Withdraw 50

Expected: Balance decreases by 50

Test Case 4: Withdraw more than balance

Expected: Show error message

Test Case 5: Enter invalid PIN

Expected: Access denied

Additional Features

- GUI design with error validation
- Ability to add new accounts using a dialog box
- Simple file-based data saving (if implemented)