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School of Computer Science and Engineering(SCOPE)

README FILE on

“Mini ATM System using Python”

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README File: -

Project: Mini Bank ATM System

A simple, beginner-friendly Python project that simulates basic ATM (Automated Teller Machine) operations.
This project uses multiple Python files, simple functions, and in-memory dictionary storage, making it easy to understand and perfect for college mini-project submission.

Features:

Create New Account
Users can create an account with account number, name, and PIN.

Secure Login
Login using account number + 4-digit PIN.

Check Balance
Displays the current account balance.

Deposit Money
Add money to the account and record the transaction.

Withdraw Money
withdraw money if sufficient balance is available.

Mini Statement
Shows the list of recent transactions.

Change PIN
Users can update their existing PIN.

Logout
Return to the main menu.
No external database or file storage is used.
Everything is stored temporarily in a Python dictionary while the program is running.

How It Works:

1.User starts the program with main.py

2. Main menu appears:
Create Account
Login
Exit

3. After login, the ATM menu appears:
Check Balance
Deposit
Withdraw
Mini Statement
Change PIN
Logout

4. All banking operations update the in-memory accounts dictionary.

Modules Overview:

main.py:

Displays the welcome screen
Controls the main flow
Calls login or account creation
Sends the logged-in user to ATM menu

bank.py:

Handles account creation
Handles login authentication

account.py:

Stores all accounts in a dictionary
Contains balance and PIN functions
transaction.py
Handles deposit, withdrawal, and history tracking

atm_menu.py:

Displays options after login
Calls functions from other modules

Technologies Used:

Python 3
Basic functions
Dictionaries
Modular programming
No external libraries required.