FULL STACK DEVELOPER MEAN COURSE

PROJECT REPORT

SUBMITTED BY

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PUMO TECHNOVATION
INDIA PRIVATE LIMITED

PROJECT TITLE SHEET
ATM MACHINE

Project Report Submitted

In partial fulfilment of the requirement for the proficient certificate course

Done By

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Course Objective:

A **full stack web developer** is a person who can develop both client and server software.

Front End:

- HTML
- CSS
- Angular
- Bootstrap
- Pyscript
- Django

Back End:

- Flask

Database:

- SQLite

ABOUT ATM MACHINE:

- which stands for automated teller machine, is a specialized computer that makes it convenient to manage a bank account holder's funds. It allows a person to check account balances, withdraw or deposit money, print a statement of account activities or transactions, and even purchase stamps.

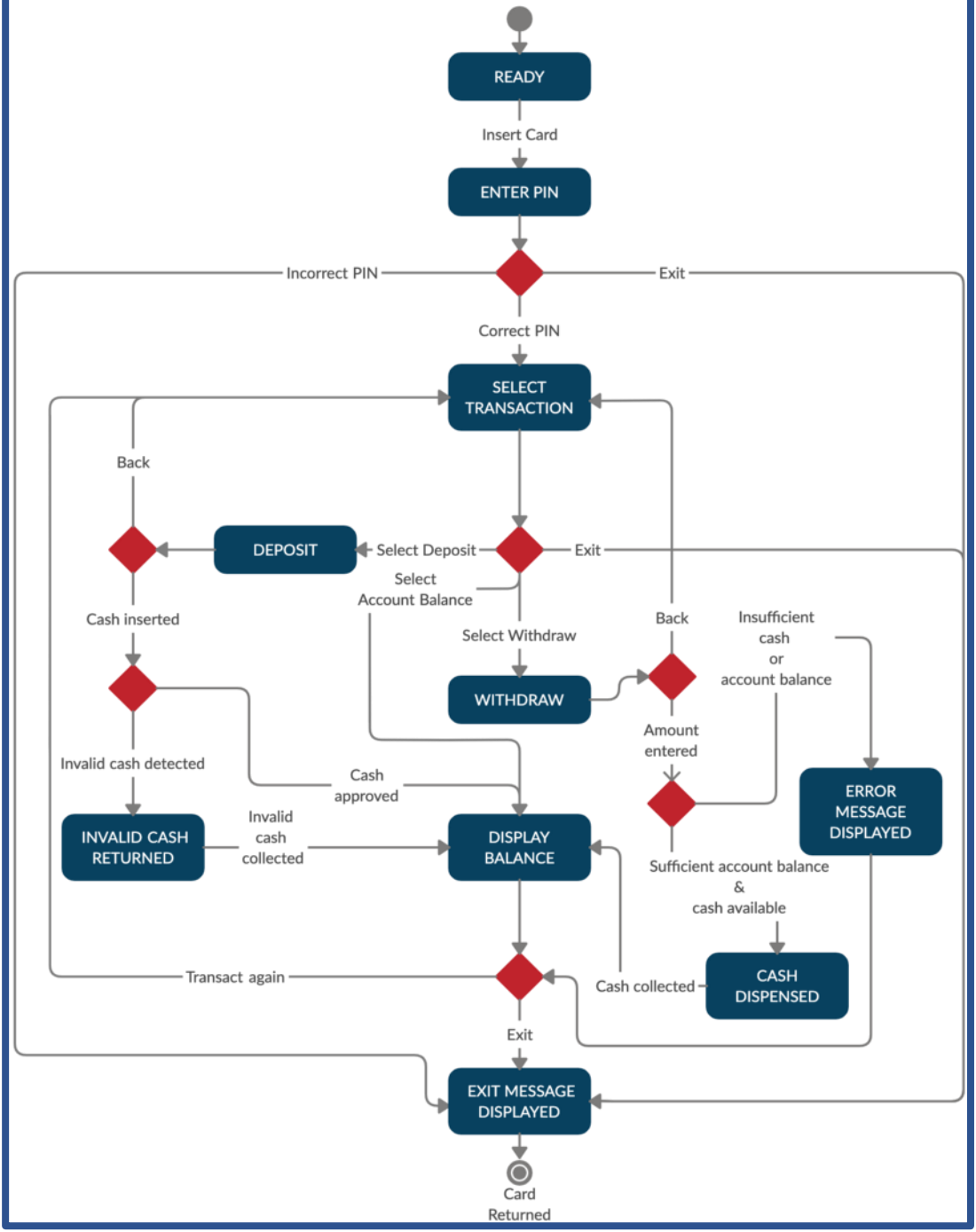
- Now, ATMs were first used in London in 1967, and after 50 years, these machines can be found nationwide.

- ATMs can be on-premise or off-premise. On-premise ATMs are located in financial institutions. Clients enjoy more choice, convenience and availability, while banks can boost their revenue from transactions, lessen operational costs and maximize staff resources.

- Off-premise ATMs are typically found in places such as airports, grocery and convenience stores and shopping centers where there is a simple need for cash.

- ATMs are simple data terminals with four output and two input devices. They have to connect to a host processor and communicate through it. The host processor works like an Internet Service Provider (ISP), a portal through which all the various networks of ATMs become accessible to the bank account holder with either a credit card or debit card.

ATM State Diagram



PROJECT OBJECT:

•**READY** — Ready to accept card

•**ENTER PIN** — Wait for the user to enter PIN, once they have inserted the card

•**SELECT TRANSACTION** — Wait for the user to select a transaction

•**DEPOSIT** — Wait for user to insert cash, once they have selected the deposit cash option

•**WITHDRAW** — Wait for user to input required amount, once they have selected the withdraw cash option

•**DISPLAY BALANCE** — Display account balance once the transaction is over and wait for the user to decide the next transaction or exit

•**CASH DISPENSED —** Dispense cash once the transaction is over and wait for the user to collect it

•**ERROR MESSAGE DISPLAYED** — Display error message if the ATM has insufficient cash or user's account has insufficient balance and wait the user to decide the next transaction or exit

•**INVALID CASH RETURNED** — Return invalid currency if any found once the transaction is over and wait for the user to collect it

•**EXIT MESSAGE DISPLAYED** — Display exit message once user exits and return the card

SOURCE CODE:

```
class ATM:
    def __init__(self, balance=0):
        self.balance = balance
    def deposit(self, amount):
        self.balance += amount
        print(f"Deposited {amount}. \nCurrent balance: {self.balance}")
    def withdraw(self, amount):
        if amount > self.balance:
            print("Insufficient funds!")
        else:
            self.balance -= amount
            print(f"Withdrew {amount}. Current balance: {self.balance}")
    def check_balance(self):
        print(f"Current balance: {self.balance}")
atm = ATM()
while True:
    print("\nWelcome to SBI")
    print("Insert Your Card")
    a = int(input("Enter Your PIN:"))
    p=1234
    if (a == p):
        print("\nSelect an option:")
        print("1. Deposit")
        print("2. Withdraw")
        print("3. Check balance")
        print("4. Exit\n")
        choice = int(input("Select your choice: "))
```

```
if (choice == 1):
            int(input("Enter the 12 digital Account number: "))
            amount = float(input("Enter amount to deposit: "))
            atm.deposit(amount)
        elif (choice == 2):
            amount = float(input("Enter amount to withdraw: "))
            atm.withdraw(amount)
        elif (choice == 3):
            atm.check_balance()
        elif (choice == 4):
            print("Thank you for using our ATM!")
            break
        else:
            print("Invalid choice. Please try again.")
    else:
        print("\nInvalid Pin. Please try again.")
```

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COMPLETE THE PROGRAM

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OUTPUT:

```
welcome to SBI
Insert Your Card
Enter Your PIN:1234

Select an option:
1. Deposit
2. Withdraw
3. Check balance
4. Exit

Select your choice: 1
Enter the 12 digital Account number: 123654789012
Enter amount to deposit: 1256333
Deposited 1256333.0.
Current balance: 1256333.0
welcome to SBI
Insert Your Card
Enter Your PIN:1234

Select an option:
1. Deposit
2. Withdraw
3. Check balance
4. Exit

Select your choice: 2
Enter amount to withdraw: 120000
Withdrew 120000.0. Current balance: 1136333.0
welcome to SBI
Insert Your Card
Enter Your PIN:1234

Select an option:
1. Deposit
2. Withdraw
3. Check balance
4. Exit

Select your choice: 3
Current balance: 1136333.0
welcome to SBI
Insert Your Card
Enter Your PIN:1234

Select an option:
1. Deposit
2. Withdraw
3. Check balance
4. Exit

Select your choice: 4
Thank you for using our ATM!
```

THANK YOU