

**Automatic  
teller machine**



# JAVA OOPS PROJECT

PROJECT NAME: Simple ATM  
Machine Simulator

- PRESENTED BY –Madhav Kumar
- Ankit Raj
- Avinash Kumar

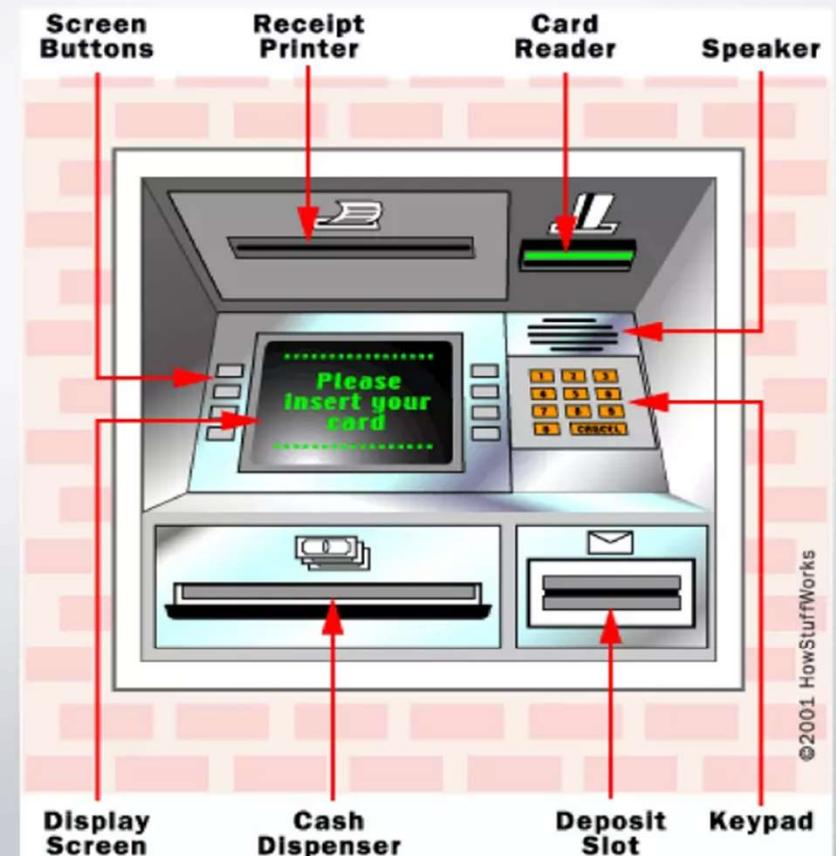
# PROJECT TITLE :Simple ATM Machine Simulator

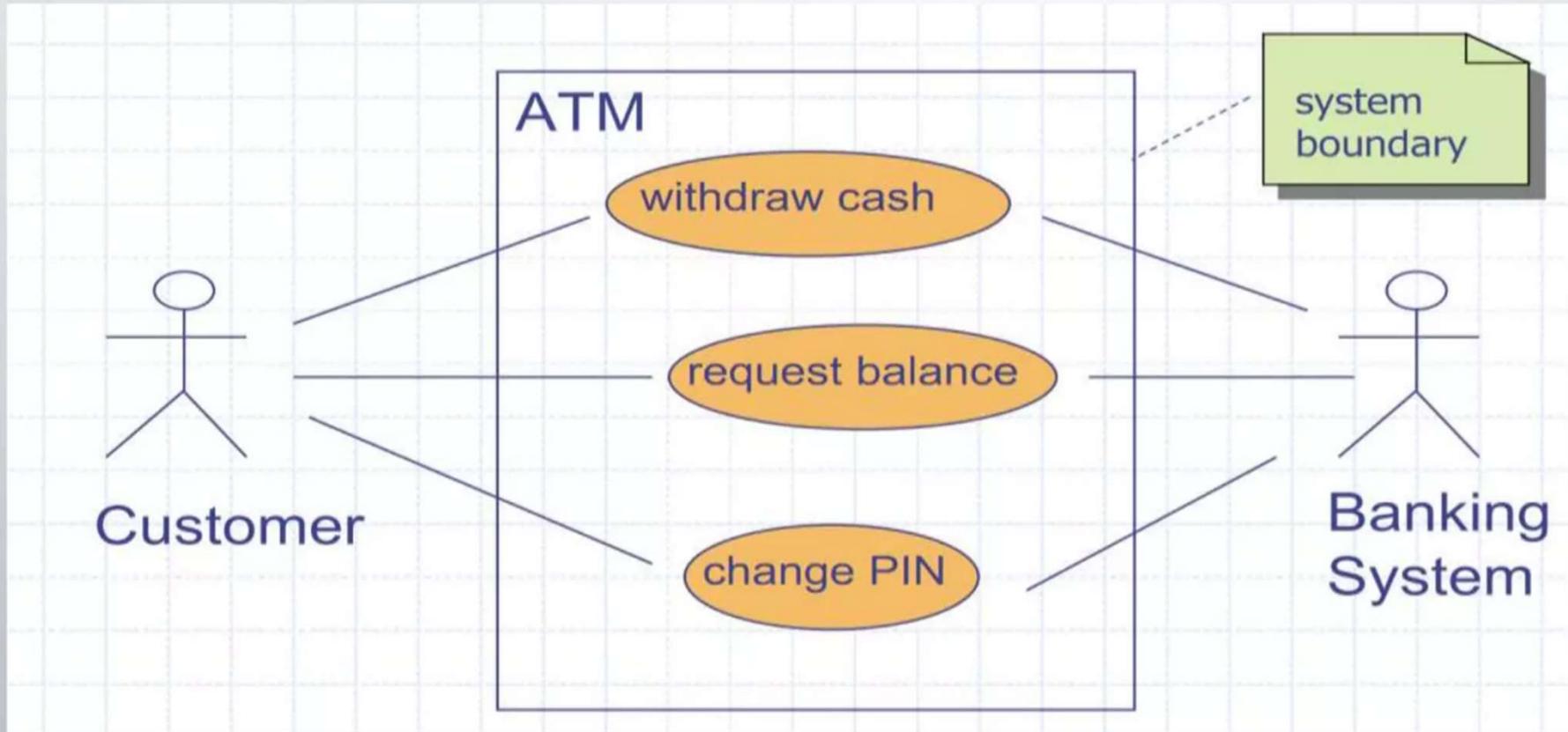
## Description:

- This project simulates a basic ATM system using Java and Object-Oriented Programming (OOP).
- It allows a user to perform simple banking operations such as checking balance, depositing money, and withdrawing money.
- The system handles basic validations like checking for sufficient balance during withdrawal....
- It uses an Account class to encapsulate user account details and methods, and a main() method to simulate ATM transactions.
- It's ideal for beginners to practice class structure, method creation, and object manipulation in Java.

# Structure of ATM

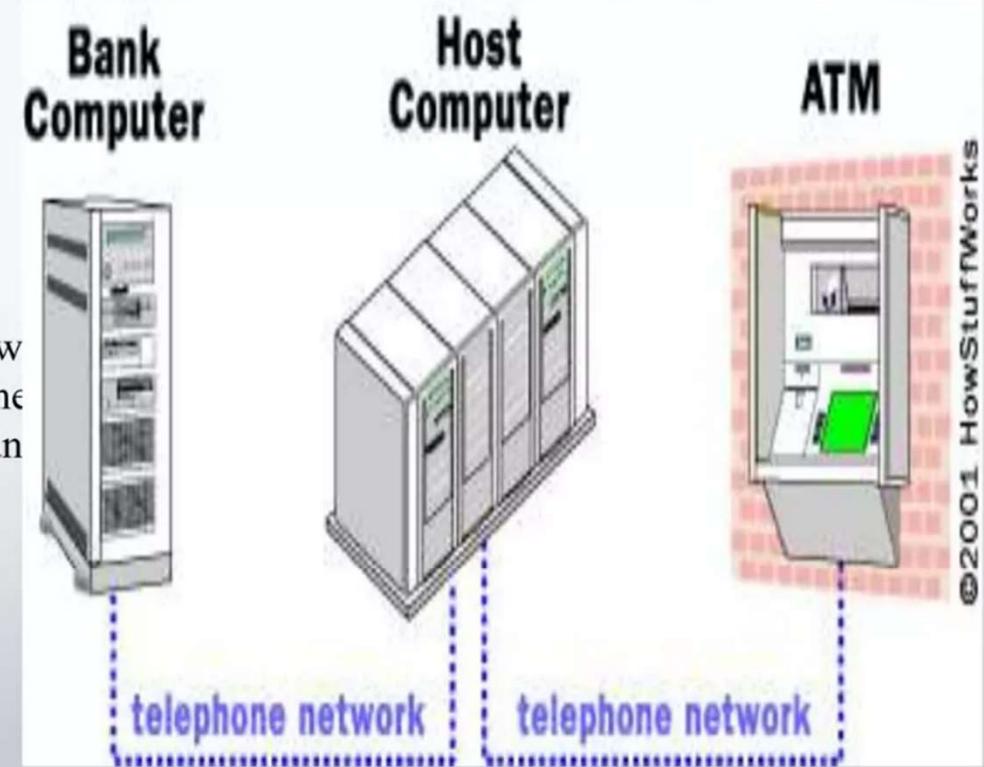
- Card reader
- Keypad
- Speaker
- Display screen
- Receipt printer
- Cash dispenser





# How Do ATMs Work?

- An ATM is simply a **data terminal** with two input and four output devices. Like any other data terminal, the ATM has to connect to, and communicate through, a **host processor**

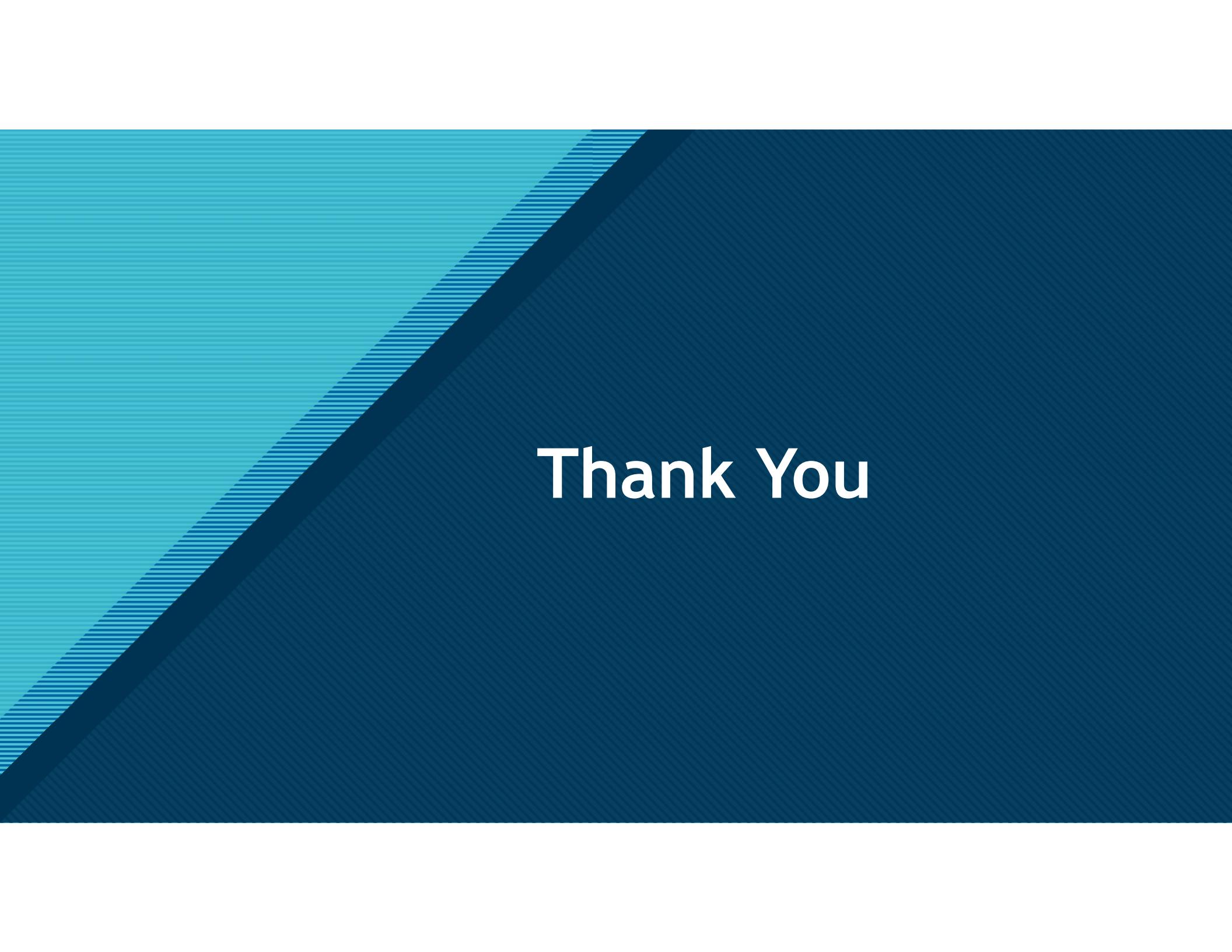


# Java Project code

```
import java.util.*;  
  
class Account {  
    String user; int balance;  
    Account(String user, int balance) { this.user = user; this.balance = balance; }  
  
    void deposit(int amount) {  
        balance += amount;  
        System.out.println("Deposited: " + amount);  
    }  
  
    void withdraw(int amount) {  
        if (balance >= amount) {  
            balance -= amount;  
            System.out.println("Withdrawn: " + amount);  
        } else System.out.println("Insufficient funds.");  
    }  
  
    void showBalance() {  
        System.out.println(user + "'s Balance: " + balance);  
    }  
}
```

# Java Project code

```
public class ATMSystem {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
        Account acc = new Account("John", 1000);  
  
        acc.showBalance();  
        acc.deposit(500);  
        acc.withdraw(300);  
        acc.withdraw(1500);  
        acc.showBalance();  
    }  
}
```

The background features a large, light blue rectangular area on the left and a dark blue rectangular area on the right, separated by a thin black border. A diagonal line with a blue and white striped pattern runs from the top-left towards the bottom-right.

Thank You