Java Program: ATM Application

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package atm;

import java.util.*;

class Account {
    String name;
    int accNum;
    int cardNum;
    int pin;
    double balance;

    Account(String name, int accNum, int cardNum, int pin, double balance) {
        this.name = name;
        this.accNum = accNum;
        this.cardNum = cardNum;
        this.pin = pin;
        this.balance = balance;
    }
}

public class ATMApplication {
    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        Map<Integer, Account> accounts = new HashMap<>();

        accounts.put(1234567, new Account("Prasanthi", 145632335, 1234567, 2310, 1000));
        accounts.put(2233445, new Account("Kranthi", 987654321, 2233445, 1234, 5000));
        accounts.put(3344556, new Account("Poorna", 567891234, 3344556, 4321, 3000));
        accounts.put(4455667, new Account("Meghanadham", 876543210, 4455667, 9876, 2000));
        accounts.put(5566778, new Account("Prasanna", 765432109, 5566778, 5555, 8000));

        System.out.println("-------- Welcome to State Bank Of Inida --------");
        boolean cards=true;
        while (cards) {
            System.out.println("Enter your card number:");
            int card = s.nextInt();
            boolean options=true;
            while(options) {
                if (accounts.containsKey(card)) {
                    Account user = accounts.get(card);

                    System.out.println("Select options:");
                    System.out.println("1. Account Details");
                    System.out.println("2. Deposit");
                    System.out.println("3. Withdraw");
                    System.out.println("4. Balance Check");
                    System.out.println("5. Change Pin");
                    System.out.println("6. Exit");
                    System.out.print("Enter your choice: ");
                    int choice = s.nextInt();

                    switch (choice) {
                        case 1:
                            System.out.println("Account Holder: " + user.name);
                            System.out.println("Account Number: " + user.accNum);
                            System.out.println("Available Balance: " + user.balance);
                            break;

                        case 2:
                            System.out.println("Enter amount for deposit:");
                            double dep = s.nextDouble();
                            user.balance += dep;
                            System.out.println(dep + " credited successfully.");
                            System.out.println("New Balance: " + user.balance);
                            break;

                        case 3:
                            System.out.println("Enter amount to withdraw:");
                            double wd = s.nextDouble();
                            if (wd <= user.balance) {
                                int i = 0;
                                while (i < 3) {
                                    System.out.println("Enter your PIN:");
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                                int pin = s.nextInt();
                                if (pin == user.pin) {
                                    user.balance -= wd;
                                    System.out.println(wd + " debited successfully.");
                                    System.out.println("Remaining Balance: " + user.balance);
                                    break;
                                } else {
                                    System.out.println("Incorrect PIN.");
                                    i++;
                                    if (i == 3) {
                                        System.out.println("Transaction failed. Try again later.
                                    }
                                }
                            }
                        } else {
                            System.out.println("Insufficient Balance.");
                        }
                        break;

                    case 4:
                        System.out.println("Your Balance: " + user.balance);
                        break;

                    case 5:
                        System.out.println("1. Forgot Pin");
                        System.out.println("2. Reset Pin");
                        int opt = s.nextInt();
                        if (opt == 1) {
                            System.out.println("Enter your name:");
                            String uname = s.next();
                            System.out.println("Enter your Account Number:");
                            int uacc = s.nextInt();
                            if (uname.equals(user.name) && uacc == user.accNum) {
                                System.out.println("Enter new PIN:");
                                user.pin = s.nextInt();
                                System.out.println("PIN changed successfully!");
                            } else {
                                System.out.println("Incorrect details.");
                            }
                        } else if (opt == 2) {
                            System.out.println("Enter old PIN:");
                            int oldPin = s.nextInt();
                            if (oldPin == user.pin) {
                                System.out.println("Enter new PIN:");
                                user.pin = s.nextInt();
                                System.out.println("PIN reset successfully!");
                            } else {
                                System.out.println("Incorrect PIN.");
                            }
                        } else {
                            System.out.println("Invalid Option");
                        }
                        break;

                    case 6:
                        System.out.println("Thank you for banking with us!");
                        options=false;
                        break;
                    default:
                        System.out.println("Invalid Input");
                }
            } else {
                System.out.println("Invalid Card Number. Try again.");
            }
        }
    }
}
```