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Assigned Task

Task

Discription : we all know there are many Fee Collection Apps in the market. Similarly In these task we are going to build on the fee collection mini CLI based App. Below are the following features which app should contain.

- Login/Signup option for student.
- Once Student is logged in into the student app. He should see the Fee pending and Amount to be paid.
- Once Student Decide to pay the amount He/She should be asked the A/c number , Amount , Bank name , IFSC code and etc.
- Once Amount is paid. System should send an Email saying that Payment Successful.

Ask Doubt?

Understood

JAVA CODE :-

```
import java.util.HashMap;
```

```
import java.util.Scanner;
```

```
public class Main {
```

```
    private static Scanner scanner = new Scanner(System.in);
```

```
    private static HashMap<String, String> users = new HashMap<>();
```

```
    public static void main(String[] args) {
```

```

// populate the user database with sample data
users.put("john123", "password");
users.put("jane456", "password");

// login or signup
String username = loginOrSignup();

// show fee pending and amount to be paid
double feePending = calculateFeePending();
System.out.println("Dear " + username + ", your fee pending is " + feePending);

// payment
if (feePending > 0) {
    System.out.println("Enter your bank account details:");
    System.out.print("A/c number: ");
    String accountNumber = scanner.nextLine();
    System.out.print("Amount: ");
    double amount = Double.parseDouble(scanner.nextLine());
    System.out.print("Bank name: ");
    String bankName = scanner.nextLine();
    System.out.print("IFSC code: ");
    String ifscCode = scanner.nextLine();

    // send payment successful email
    sendPaymentSuccessfulEmail(username, amount);
    System.out.println("Payment successful!");
} else {
    System.out.println("No fee pending. Thank you!");
}
}

```

```
private static String loginOrSignup() {  
    System.out.println("Welcome to the Fee Collection App!");  
    System.out.println("1. Login");  
    System.out.println("2. Signup");  
  
    int choice = Integer.parseInt(scanner.nextLine());  
    String username, password;  
  
    switch (choice) {  
        case 1:  
            System.out.print("Enter your username: ");  
            username = scanner.nextLine();  
            System.out.print("Enter your password: ");  
            password = scanner.nextLine();  
  
            while (!users.containsKey(username) || !users.get(username).equals(password)) {  
                System.out.println("Invalid username or password. Please try again.");  
                System.out.print("Enter your username: ");  
                username = scanner.nextLine();  
                System.out.print("Enter your password: ");  
                password = scanner.nextLine();  
            }  
            break;  
  
        case 2:  
            System.out.print("Enter a username: ");  
            username = scanner.nextLine();  
            System.out.print("Enter a password: ");  
            password = scanner.nextLine();  
            users.put(username, password);  
            System.out.println("Signup successful!");  
    }  
}
```

```

        break;

    default:
        throw new IllegalArgumentException("Invalid choice");
    }

    return username;
}

private static double calculateFeePending() {
    // calculate fee pending based on the user's record
    return 1000.0;
}

private static void sendPaymentSuccessfulEmail(String username, double amount) {
    // send payment successful email using JavaMail API or other libraries
    System.out.println("Dear " + username + ", your payment of " + amount + " has been received.
Thank you!");
}
}

```

```

Welcome to the Fee Collection App!
1. Login
2. Signup

```