ARI FULLAH B2 2023 POSTTEST 4

Main.java

```
import java.util.Scanner;
   public static void main(String[] args) {
       Scanner scanner = new Scanner(System.in);
       UserAuth userAuth = new UserAuth();
            System.out.println(x:"\n=== Selamat Datang di Gym Fitness Jaya ===");
            System.out.println(x:"1. Login");
System.out.println(x:"2. Registrasi");
            System.out.println(x:"3. Keluar");
            System.out.print(s:"Pilih menu: ");
            int choice = scanner.nextInt();
            scanner.nextLine();
            if (choice == 1) {
                System.out.print(s:"Username: ");
                String username = scanner.nextLine();
                System.out.print(s:"Password: ");
                String password = scanner.nextLine();
                User user = userAuth.login(username, password);
                    System.out.println(x:"Login gagal! Username atau password salah.");
                    if (user.getRole().equals(anObject:"admin")) {
                        adminMenu(scanner, user);
                         memberMenu(scanner, user);
            } else if (choice == 2) {
    System.out.print(s:"Masukkan username baru: ");
                String username = scanner.nextLine();
                System.out.print(s:"Masukkan password baru: ");
                String password = scanner.nextLine();
```

```
if (userAuth.register(username, password)) {
                 System.out.println(x:"Registrasi berhasil! Silakan login.");
                 System.out.println(x:"Username sudah digunakan. Pilih username lain.");
        } else if (choice == 3) {
             System.out.println(x:"Terima kasih telah menggunakan sistem.");
             scanner.close();
            return;
            System.out.println(x:"Pilihan tidak valid.");
public static void adminMenu(Scanner scanner, User user) {
    Admin admin = (Admin) user;
    while (true) {
        System.out.println(x:"\n=== Menu Admin ===");
        System.out.println(x:"1. Tambah Jadwal Latihan");
        System.out.println(x:"2. Lihat Anggota");
System.out.println(x:"3. Lihat Semua Jadwal");
System.out.println(x:"4. Logout");
        System.out.print(s:"Pilih menu:
        int choice = scanner.nextInt();
        scanner.nextLine();
        if (choice == 1) {
             System.out.print(s:"Masukkan nama member: ");
             String memberName = scanner.nextLine();
             System.out.print(s:"Jenis Latihan: ");
             String workoutType = scanner.nextLine();
             System.out.print(s:"Tanggal Latihan (YYYY-MM-DD): ");
             String scheduleDate = scanner.nextLine();
```

```
// Panggil metode overload (bisa pilih salah satu)
    admin.addSchedule(memberName, workoutType, scheduleDate);
    // admin.addSchedule(new Schedule(memberName, workoutType, scheduleDate));
} else if (choice == 2) {
    admin.viewMembers();
} else if (choice == 3) {
    admin.viewSchedule(); // override
} else if (choice == 4) {
    return;
} else {
    System.out.println(x:"Pilihan tidak valid.");
}
}

public static void memberMenu(Scanner scanner, User user) {
    user.viewSchedule(); // polymorphism (override akan otomatis jalan)
}
```

Admin.java

User.java

```
public class User extends Person {
    private String username;
    private String password;
    private String role; // "admin" or "member"

public User(String fullName, String address, String phoneNumber, String username, String password, String role) {
        super(fullName, address, phoneNumber);
        this.username username;
        this.password = password;
        this.role = role;
    }

// Getter and Setter
    public void setUsername(String username) {
        this.username = username;
    }

public void setUsername(String username) {
        this.username = username;
    }

public void setPassword() {
        return password;
    }

public void setPassword(String password) {
        this.password = password;
    }

public void setPassword(String password) {
        this.password = password;
    }

public void setRole(String role) {
        this.role - role;
    }

public void setRole(String role) {
        this.role - role;
    }

// Polymorphism (Override)
    public void viewSchedule() {
        System.out.println("User " + getUsername() + " belum memiliki jadwal spesifik.");
    }
}
```

Member.java

```
public class Member extends User {
   public Member(String fullName, String address, String phoneNumber, String username, String password) {
        super(fullName, address, phoneNumber, username, password, role: "member");
   }
   @Override
   public void viewSchedule() {
        System.out.println("Member " + getUsername() + " melihat jadwal latihan pribadinya.");
   }
}
```

MemberCRUD.java

```
import java.util.ArrayList;

public class MemberCRUD {
    private ArrayList<Member> members = new ArrayList<>();

// Menambahkan anggota baru
public void addMember(String username, String fullName, String address, String phoneNumber) {
    members.add(new Member(fullName, address, phoneNumber, username, password:"defaultPassword"));
    System.out.println("Anggota " + username + " berhasil ditambahkan.");

}

// Menampilkan semua anggota
public void showMembers() {
    if (members.isEmpty()) {
        System.out.println(x:"Belum ada anggota yang terdaftar.");
        return;
    }
    for (Member member : members) {
        System.out.println(member);
    }

// Getter untuk mengambil daftar anggota
public ArrayList<Member> getMembers() {
        return members;
    }
}
```

Person.java

```
public class Person {
   private String fullName;
   private String address;
   private String phoneNumber;
   public Person(String fullName, String address, String phoneNumber) {
       this.fullName = fullName;
       this.address = address;
       this.phoneNumber = phoneNumber;
   public String getFullName() {
        return fullName;
   public void setFullName(String fullName) {
       this.fullName = fullName;
   public String getAddress() {
       return address;
   public void setAddress(String address) {
       this.address = address;
   public String getPhoneNumber() {
       return phoneNumber;
   public void setPhoneNumber(String phoneNumber) {
       this.phoneNumber = phoneNumber;
```

Schedule.java

```
public class Schedule {
    private String memberName;
   private String workoutType;
   private String scheduleDate;
    public Schedule(String memberName, String workoutType, String scheduleDate) {
        this.memberName = memberName;
        this.workoutType = workoutType;
        this.scheduleDate = scheduleDate;
    public String getMemberName() {
       return memberName;
    public void setMemberName(String memberName) {
       this.memberName = memberName;
    public String getWorkoutType() {
       return workoutType;
    public void setWorkoutType(String workoutType) {
       this.workoutType = workoutType;
    public String getScheduleDate() {
      return scheduleDate;
    public void setScheduleDate(String scheduleDate) {
       this.scheduleDate = scheduleDate;
    @Override
    public String toString() {
       return "Member: " + memberName + " | Latihan: " + workoutType + " | Tanggal: " + scheduleDate;
```

ScheduleCRUD.java

```
import java.util.ArrayList;
   private ArrayList<Schedule> schedules = new ArrayList<>();
    public void addSchedule(String memberName, String workoutType, String scheduleDate) [
        schedules.add(new Schedule(memberName, workoutType, scheduleDate));
        System.out.println("Jadwal latihan untuk " + memberName + " berhasil ditambahkan!");
    public void showSchedules() {
        if (schedules.isEmpty()) {
            System.out.println(x:"Belum ada jadwal latihan yang terdaftar.");
        for (Schedule schedule : schedules) {
            System.out.println(schedule);
    public void deleteSchedule(int index) {
        if (index >= 0 && index < schedules.size()) {
    System.out.println("Jadwal latihan untuk " + schedules.get(index).getMemberName() + " berhasil dihapus.");</pre>
            schedules.remove(index);
            System.out.println(x:"Indeks tidak valid.");
    public ArrayList<Schedule> getSchedules() {
        return schedules:
```

UseraAuth.java

```
import java.util.ArrayList;

public class UserAuth []
  protected ArrayList(Vser> users = new ArrayList(*)(); // Protected agar bisa diwarisi

public UserAuth() {
    users.add(new Admin(fullName:"Admin", address:"Admin Address", phoneNumber:"0000", username:"admin", passw..."123"));
}

public boolean register(String username, String password) {
    for (User user : users) {
        if (user.getUsername().equals(username)) {
            return false; // Username sudah ada
        }
    }
    users.add(new Member(fullName:"Member", address:"Member Address", phoneNumber:"1111", username, password));
    return true;
}

public User login(String username, String password) {
    for (User user : users) {
        if (user.getUsername().equals(username) && user.getPassword().equals(password)) {
            return user;
        }
        return null; // Login gagal
}
```