

## PACKAGE

```
package model;

public class userInstansi
extends Instansi {
    private String
departemen;

    public userInstansi(int
id, String username, String
password, String departemen
) {
        super
(id, username, password);
        this.departemen =
departemen;
    }

    public String
getDepartemen() {
        return departemen;
    }

    @Override
    public void displayRole
() {
        System.out.println(
"Role: Instansi Pemerintah -
Departemen: "
+ departemen);
    }
}
```

```
package model;

public class userAdmin
extends User {
    public userAdmin(int id
, String username, String
password) {
        super
(id, username, password, "U"
);
    }

    @Override
    public void displayRole
() {
        System.out.println(
"Role: u - Mengelola sistem"
);
    }
}
```

```
package model;

public class User {
    private int id;
    private String username;
    private String password;
    private String role;

    public User(int id,
String username, String
password, String role) {
        this.id = id;
        this.username =
username;
        this.password =
password;
        this.role = role;
    }

    public int getId() {
        return id;
    }

    public String
getUsername() {
        return username;
    }

    public String
getPassword() {
        return password;
    }

    public String getRole
() {
        return role;
    }

    public void displayRole
() {
        System.out.println(
"Role: " + role);
    }
}
```

```
package model;

public class
LaporanPrioritas extends
Laporan {
    private String prioritas
;

    public LaporanPrioritas(
int id, String deskripsi,
String status, String
kategori, int userId, String
prioritas) {
        super
(id, deskripsi, status, kate
gori, userId);
        this.prioritas =
prioritas;
    }

    public String
getPrioritas() {
        return prioritas;
    }

    @Override
    public void display() {
        super.display();
        System.out.println(
"Prioritas: " + prioritas);
    }
}
```

```
package model;

public class Laporan {
    private int id;
    private String deskripsi
;
    private String status;
    private String kategori;
    private int userId;

    public Laporan(int id,
String deskripsi, String
status, String kategori, int
userId) {
        this.id = id;
        this.deskripsi =
deskripsi;
        this.status =
status;
        this.kategori =
kategori;
        this.userId =
userId;
    }

    public int getId() {
        return id;
    }

    public String
getDeskripsi() {
        return deskripsi;
    }

    public String getStatus
() {
        return status;
    }

    public void setStatus(
String status) {
        this.status =
status;
    }
}
```

```

package model;

public class Komentar {
    private int idLaporan;
    private int userId;
    private String
isiKomentar;

    public Komentar(int
idLaporan, int userId,
String isiKomentar) {
        this.idLaporan =
idLaporan;
        this.userId =
userId;
        this.isiKomentar =
isiKomentar;
    }

    public int getIdLaporan
() {
        return idLaporan;
    }

    protected int getUserId
() {
        return userId;
    }

    public String
getIsiKomentar() {
        return isiKomentar;
    }

    public void display() {
        System.out.println(
"Laporan ID: " + idLaporan +
" | User ID: " + userId +
" | Komentar: " +
isiKomentar);
    }
}

```

```
package model;

public class Instansi
extends User {
    public Instansi(int id,
String username, String
password) {
        super
(id, username, password,
"instansi");
    }

    @Override
    public void displayRole
() {
        System.out.println(
"Role: Instansi - Menangani
laporan"
);
    }
}
```

**APP**



```

        private static void
hapusLaporanSendiri() {
            System.out.print(
                "Masukkan ID Laporan yang akan dihapus: "
            );
            int id = getIntInput();
            LaporanList.removeIf(
                (Laporan l) -> l.getId()
                == id && l.getUserid()
                == currentUser.getId());
            System.out.println(
                "Laporan berhasil dihapus"
            );
        }

        private static void
tampilkanLaporanByKategori() {
            System.out.print(
                "Masukkan Kategori: ");
            String kategori =
scanner.nextLine();

            for (Laporan laporan
: laporanList) {
                if (laporan.
getKategori().
equalsIgnoreCase(
kategori)) {
                    laporan.
display();
                }
            }
        }

        private static void
updateLaporanStatus() {
            System.out.print(
                "Masukkan ID Laporan yang akan diubah: "
            );
            int id = getIntInput();
            System.out.print(
                "Masukkan Status baru: ");
            String status =
scanner.nextLine();

            for (Laporan laporan
: laporanList) {
                if (laporan.
getId() == id) {
                    laporan.
setStatus(status);
                    System.out.
println(
                        "Status laporan berhasil diubah!"
                    );
                    return;
                }
            }
            System.out.println(
                "Laporan tidak ditemukan!");
        }

        private static void
tambahKomentar() {
            System.out.print(
                "Masukkan ID Laporan yang akan dikomentari: "
            );
            int idLaporan =
getIntInput();
            System.out.print(
                "Masukkan Komentar: ");
            String isiKomentar =
scanner.nextLine();

            komentarList.add(new
Komentar(idLaporan,
currentUser.getId(), isiKomentar));
            System.out.println(
                "Komentar berhasil ditambahkan!"
            );
        }

        private static void
kelolaPengguna() {
            System.out.println(
                "Daftar Pengguna:");
            for (User user :
users) {
                System.out.
println(
                    "ID: " +
user.getId() +
" | Username: " + user.
getUsername() + " | Role: "
+ user.getRole());
            }
        }

```

```

        private static void
displayInstansiMenu() {
            System.out.println(
                "1. Lihat Laporan Berdasarkan Kategori"
            );
            System.out.println(
                "2. Ubah Status Laporan");
            System.out.println(
                "3. Tambah Komentar");
            System.out.println(
                "8. Logout");
            handleMenu(getIntInput());
        }

        private static void
displayAdminMenu() {
            System.out.println(
                "1. Kelola Pengguna");
            System.out.println(
                "2. Kelola Laporan");
            System.out.println(
                "3. Kelola Komentar");
            System.out.println(
                "8. Logout");
            handleMenu(getIntInput());
        }

        private static void
handleMenu(int pilihan) {
            if (pilihan == 0) {
                currentUser = null;
                mainMenu();
                return;
            }

            switch (currentUser.
getRole()) {
                case "warga" ->
handleWargaMenu(pilihan);
                case "instansi" ->
handleInstansiMenu(pilihan);
                case "admin" ->
handleAdminMenu(pilihan);
                default -> System.
out.println(
                    "Pilihan tidak valid!");
            }
        }

        private static void
handleWargaMenu(int pilihan) {
            switch (pilihan) {
                case 1 ->
tambahLaporan();
                case 2 ->
tampilkanLaporan();
                case 3 ->
tambahKomentar();
                case 4 ->
tampilkanLaporanSendiri();
                case 5 ->
hapusLaporanSendiri();
                default -> System.
out.println(
                    "Pilihan tidak valid!");
            }
        }

        private static void
handleInstansiMenu(int
pilihan) {
            switch (pilihan) {
                case 1 ->
tampilkanLaporanByKategori();
                case 2 ->
updateLaporanStatus();
                case 3 ->
tambahKomentar();
                default -> System.
out.println(

```

```

import model.*;
import java.util.*;

public class App {
    private static ArrayList<User> users = new ArrayList<>();

    private static ArrayList<Laporan> laporanList = new ArrayList<>();
    private static ArrayList<Komentar> komentarList = new ArrayList<>();
    private static Scanner scanner = new Scanner(System.in);
    private static User currentUser = null;

    public static void main(
String[] args) {
        seedUsers();
        mainMenu();
    }

    private static void
seedUsers() {
        users.add(new
UserAdmin(1, "admin", "123"
));
        users.add(new
Instansi(2, "instansi",
"123"));
        users.add(new
UserInstansi(3, "pemerintah",
"123", "Kesehatan"));
        users.add(new User(4,
"warga", "123", "warga"));
    }

    private static void
mainMenu() {
        while (true) {
            System.out.
println("Silakan Masukkan Menu:");
            System.out.
println("1. Login");
            System.out.
println("2. Daftar");
            System.out.
println("8. Keluar");
            System.out.print(
                "Pilih menu: ");
            int pilihan =
getIntInput();
            switch
(pilihan) {
                case 1 ->
login();
                case 2 ->
register();
                case 0 -> {
                    System.
out.println(
                        "Terima kasih telah menggunakan aplikasi!");
                    }
                default ->
System.out.println(
                    "Pilihan tidak valid!");
            }
        }

        private static void
register() {
            System.out.print(
                "Masukkan Username: ");
            String username =
scanner.nextLine();
            System.out.print(
                "Masukkan Password: ");
            String password =
scanner.nextLine();
            System.out.print(
                "Masukkan Role (warga/instansi/admin): ");
            String role =
scanner.nextLine();
        }
    }

```