```
package model;
public class userWarga extends
User {
   public userWarga(int id,
String username, String password
) {
        super
(id, username, password, "warga"
);
    @Override
    public void displayRole() {
        System.out.println(
"Role: Warga - Melaporkan masala
h"
);
    }
    @Override
   public final void iniAbstract
() {
        System.out.println(
"gatau mo ngapain abstarct");
```

```
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;
    @0verride
   public final void displayRole
() {
        System.out.println(
"Role: Instansi Pemerintah - Depa
rtemen: "
+ 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");
    }
    @Override
    public void iniAbstract() {
        System.out.println(
"ndak tau mo ngapain");
    }
}
```

```
public abstract 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);
    public abstract void
iniAbstract();
}
```

```
package model;
public class LaporanPrioritas
extends <a href="Laporan">Laporan</a>
    private String prioritas;
    public LaporanPrioritas(int
id, String deskripsi, String
status, String kategori, int
userId, String prioritas) {
        super
(id, deskripsi, status, kategori,
userId);
        this.prioritas =
prioritas;
    }
   public String getPrioritas
() {
        return prioritas;
    @Override
    public void display() {
        super.display();
        System.out.println(
"Prioritas: " + prioritas);
    }
```

```
public class Laporan {
    public Laporan(int id, String
deskripsi, String status, String
kategori, int userId) {
        this.deskripsi =
 deskripsi;
        this.status = status;
        this.kategori = kategori;
this.userId = userId;
    public int getId() {
    public String getDeskripsi
        return deskripsi;
    public String getStatus() {
        return status;
    public void setStatus(String
status) {
        this.status = status;
    public String getKategori() {
        return kategori;
    public int getUserId() {
        return userId;
    public void display() {
        System.out.println(
" | Deskripsi: " + deskripsi +
" | Status: " + status +
" | Kategori: " + kategori);
    public void display(boolean
showUserId) {
        display();
        if (showUserId) {
             System.out.println(
"User ID: " + userId);
```

```
package model;
public final class Komentar {
   private int idLaporan;
   private final 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 lapor
an"
);
    }
    @Override
    public void iniAbstract() {
        System.out.println(
"ndak tau mo ngapain");
```

```
private static void deleteReport
       System.out.print(
"Masukkan ID Laporan yang akan di
hapus: "
       int id = getIntInput();
       laporanList.removeIf
(laporan -> laporan.getId() ==
id);
       System.out.println(
"Laporan berhasil dihapus!");
kelolaKomentar() {
       System.out.println(
"Daftar Komentar:");
komentarList) {
           komentar.display();
       System.out.println(
"Kelola Komentar:");
       System.out.println(
"1. Hapus Komentar");
       System.out.print(
"Pilih menu: ");
       int pilihan = getIntInput
();
       if (pilihan == 1) {
           deleteComment();
           System.out.println(
"Pilihan tidak valid!");
deleteComment() {
       System.out.print(
"Masukkan ID Komentar yang akan d
ihapus: "
       int id = getIntInput();
       komentarList.removeIf
(komentar -> komentar.
getIdLaporan() == id);
       System.out.println(
"Komentar berhasil dihapus!");
```

```
tambahKomentar() {
System.out.print(
"Masukkan ID Laporan yang dikomen
tari:
      int idLaporan = getIntInput
     System.out.print(
String isiKomentar
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(
getId() + " | Username: " + User.
getVsername() + " | Role: " +
User.getRole());
}
     System.out.println(
"Kelola Pengguna:");
System.out.println(
"Pilihan tidak valid!");
private static void deleteUser
() {
    System.out.print(
"Masukkan ID Pengguna yang akan d
int id = getIntInput();
    users.removeIf(user -> user.
getId() == id);
      System.out.println(
"Pengguna berhasil dihapus!");
private static void kelolaLaporan
"Daftar Laporan:");
for (Laporan laporan :
laporanList) {
          laporan.display();
"Kelola Laporan:");
     System.out.println(
"1. Hapus Laporan");
System.out.print(
"Pilih menu: ");
int pilihan = getIntInput();
if (pilihan == 1) {
    deletePerson()
      deleteReport();
} else {
System.out.println(
"Pilihan tidak valid!");
```

```
tampilkanLaporanSendiri() {
 laporanList) {
       if (laporan.getUserId()
== currentUser.getId()) {
            laporan.display();
hapusLaporanSendiri() {
   System.out.print(
"Masukkan ID Laporan yang akan di
    int id = getIntInput();
    laporanList.removeIf
(laporan -> laporan.getId() ==
id && laporan.getUserId() =:
currentUser.getId());
   System.out.println(
tampilkanLaporanByKategori() {
   System.out.print(
"Masukkan Kategori: ");
    String kategori = scanner.
nextLine();
 laporanList) {
      if (laporan.getKategori
().equalsIgnoreCase(kategori)) {
            laporan.display();
updateLaporanStatus() {
    System.out.print(
"Masukkan ID Laporan yang akan di
    int id = getIntInput();
    System.out.print(
nextLine();
 laporanList) {
        if (laporan.getId() ==
 id) {
            laporan.setStatus
(status);
            System.out.println(
"Status laporan berhasil diubah!"
    System.out.println(
"Laporan tidak ditemukan!");
```

```
handleAdminMenu(int pilihan) {
    switch (pilihan) {
        case 1 -> kelolaPengguna
        case 2 -> kelolaLaporan
         case 3 -> kelolaKomentar
default -> System.out.
println("Pilihan tidak valid!");
 private static int getIntInput
parseInt(scanner.nextLine());
           System.out.print(
"Input tidak valid, masukkan angk
tambahLaporan() {
    System.out.print(
"Masukkan ID Laporan: ");
    int id = getIntInput();
     System.out.print(
"Masukkan Deskripsi: ");
    String deskripsi = scanner.
nextLine();
    System.out.print(
"Masukkan Status: ");
String status = scanner.
nextLine();
   System.out.print(
"Masukkan Kategori: ");
nextLine();
    laporanList.add(new Laporan
(id, deskripsi, status, kategori,
currentUser.getId()));
   System.out.println(
"Laporan berhasil ditambahkan!");
tampilkanLaporan() {
 laporanList) {
       laporan.display();
komentar.display
():
```

```
displayInstansiMenu() {
    System.out.println(
"1. Lihat Laporan Berdasarkan Kat
    System.out.println(
"2. Ubah Status Laporan");
    System.out.println(
"3. Tambah Komentar");
System.out.println(
"0. Logout");
    handleMenu(getIntInput());
displayAdminMenu() {
    System.out.println(
"1. Kelola Pengguna");
    System.out.println(
"2. Kelola Laporan");
    System.out.println(
"3. Kelola Komentar");
System.out.println(
"0. Logout");
    handleMenu(getIntInput());
private static void handleMenu(
    if (pilihan == 0) {
        currentUser = null;
        mainMenu();
    switch (currentUser.getRole
()) {
         case "warga" ->
handleWargaMenu(pilihan);
         case "instansi"
handleInstansiMenu(pilihan);
handleAdminMenu(pilihan);
default -> System.out.
println("Pilihan tidak valid!");
handleWargaMenu(int pilihan) {
        case 1 -> tambahLaporan
tampilkanLaporan();
        case 3 -> tambahKomentar
():
tampilkanLaporanSendiri();
hapusLaporanSendiri();
println("Pilihan tidak valid!");
private static void
handleInstansiMenu(int pilihan) {
    switch (pilihan) {
tampilkanLaporanByKategori();
        case 2
updateLaporanStatus();
         case 3 -> tambahKomentar
default -> System.out.
println("Pilihan tidak valid!");
```

```
'Masukkan Role (warga/instansi/ad
min): "
       String role = scanner.
nextLine();
       int id = users.size() + 1;
       switch (role.toLowerCase
()) {
          case "admin" -> users.
add(new userAdmin
(id, username, password));
          case "instansi" ->
users.add(new Instansi
(id, username, password));
           case "pemerintah" -> {
              System.out.print(
"Masukkan Departemen: ");
              String departemen
= scanner.nextLine();
              users.add(new
userInstansi
(id, username, password, departem
en));
          default -> users.add(
new userWarga
(id, username, password));
      System.out.println(
"Registrasi berhasil!");
  private static void login() {
       System.out.print(
"Masukkan Username: ");
       String username = scanner.
nextLine();
       System.out.print(
"Masukkan Password: ");
      String password = scanner.
nextLine();
       for (User user : users) {
           if (user.getUsername
().equals(username) && user.
getPassword().equals(password)) {
              currentUser =
 user;
              System.out.println
("Login berhasil sebagai " + user
.getRole());
               menuUtama();
       System.out.println(
"Login gagal! Username atau passw
ord salah."
  private static void menuUtama
       while (true) {
          System.out.println("\n
Menu Utama:");
getRole()) {
              case "warga" ->
displayWargaMenu();
```

```
ArrayList<>();
    private static final Scanner
scanner = new Scanner(System.in);
    private static User
currentUser = null;
public static final 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 Instans
, "instansi", "123"));
users.add(new
userInstansi(3, "pemerintah",
"123", "Kesehatan"));
"123",
users.add(new userWarga(4, "warga", "123"));
private static void mainMenu
() {
System.out.println("
\nMenu Utama:");
System.out.println(
                    System.out.println(
"2. Daftar");
System.out.println(
"0. Keluar");
System.out.print(
"Pilih menu: ");
"pilihan =
"Pilih menu: ");
int pilihan =
getIntInput();
switch (pilihan) {
case 1 -> login
register();
println(
"Terima kasih telah menggunakan a
plikasi!"
                                  System.exit(0
);
.out.println(
"Pilihan tidak valid!");
private static void register
() {
             System.out.print(
an Username: ");
String username = scanner
.nextLine();
System.out.print(
"Masukkan Password: ");
String password = scanner
.nextLine();
    System.out.print(
"Masukkan Role (warga/instansi/ad
nextLine();
             int id = users.size() + 1
             switch (role.toLowerCase
.add(new userAdein
(id, username, password));
case "instansi" ->
users.add(new Instansi
(id, username, password));
case "pemerintah"
                          System.out.print(
temen: ");
"Masukkan Departemen: ");
String departemen
  = scanner.nextLine();
                           users.add(new
userInstansi
```