User (abstract class & method)

```
🛑 🔵 🔵 User.java
package model;
public abstract class User { 2 usages 2 inheritors
     protected String email; 3 usages
     protected String username; 4 usages
     protected String password; 2 usages
     public User(String email, String username, String password) {
         this.email = email;
         this.username = username;
         this.password = password;
     public String getUsername() { 3 usages 1 override
         return username; }
     public String getPassword() { 3 usages 1 override
         return password;
     public abstract String getRole(); no usages 2 implementations
```

Admin

```
🖊 🔍 🔍 Admin.java
package model;
public class Admin extends User{ 7 usages
    public Admin(String email, String username, String password) {
        super(email, username, password);
    @Override 3 usages
    public String getUsername() {
        return super.getUsername(); }
    @Override 3 usages
    public String getPassword() {
        return super.getPassword(); }
    @Override
    public String toString() {
        return "Admin: " + username + ", email= " + email; }
    @Override no usages
    public String getRole() {
       return "Admin";
```

Pengguna

```
Penggunajava
package model;

public class Pengguna extends User{ 9 usages
    public static final Pengguna DEFAULT_USER = new Pengguna( email: "user@mail.com", username: "user", password: "user123");

public Pengguna (String email, String username, String password){ 2 usages
        super(email, username, password);
    }

@Override
public String toString() {
    return "Pengguna: " + username + ", email: " + email;
}

@Override no usages
public String getRole() {
    return "Pengguna";
}
```

Aksesori (atribut final)

```
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this messactive is, String mans, String merek, int hargs, Kategori kategori){

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```

Kategori (class dan atribut final)

```
package model;

public final class Kategori{ 11 usages
    private final int idKategori; 2 usages
    public String nama_kategori; 3 usages

public Kategori(int idKategori, String nama_kategori){ 2 usages
    this.idKategori = idKategori;
    this.nama_kategori = nama_kategori;
}

public String getNamaKategori(){ 1 usage
    return nama_kategori;
}

public String dalam_string(){ 1 usage
    return "ID: " + idKategori + ", Nama Kategori: " + nama_kategori;
}
```

CRUD (method final)

```
CRUD.java
package service;
import java.util.ArrayList;
import java.util.Scanner;
import model.Aksesori;
import model.Kategori;
public class CRUD { 8 usages
   public static final ArrayList<Aksesori> dαtαAksesori = new ArrayList<>();
   public static final ArrayList<Kategori> dαταΚατεgori = new ArrayList<>();
   public static final Scanner scanner = new Scanner(System.in); 17 usages
    static{
        dαταΚατegori.add(new Kategori( idKategori: 1, nama_kategori: "-"));
    public static final void tambah_aksesori(){  1usage
        System.out.println("=== Tambah Aksesori ===");
        System.out.print("Nama: ");
        String nama = scanner.nextLine();
        System.out.print("Merek: ");
        String merek = scanner.nextLine();
        System.out.print("Harga: ");
        int harga = scanner.nextInt();
        scanner.nextLine();
        System.out.println("Pilih Kategori: ");
        lihat_kategori();
        System.out.print("Pilihan: ");
        int pilihan = scanner.nextInt();
        scanner.nextLine();
        Kategori kategori = dataKategori.get(pilihan - 1);
        Aksesori aksesori = new Aksesori(Id++, nama, merek, harga, kategori);
        dαtαAksesori.add(aksesori);
    public static final void lihat_aksesori(){  4 usages
        System.out.println("\n=== Lihat Aksesori ===");
        if (dataAksesori.isEmpty()) {
            System.out.println("Tidak ada aksesori yang tersedia.");
            for (Aksesori aksesori : dataAksesori) {
                System.out.println(aksesori.dalam_string());
```

```
CRUD.java
   public static final void ubah_aksesori(){  1usage
       lihat_aksesori();
       System.out.print("Pilih Aksesori: ");
       int pilihan = scanner.nextInt();
       scanner.nextLine();
       Aksesori aksesori = dαtαAksesori.get(pilihan - 1);
       System.out.print("Nama: ");
       String nama = scanner.nextLine();
       System.out.print("Merek: ");
       String merek = scanner.nextLine();
       System.out.print("Harga: ");
       int harga = scαnner.nextInt();
       scanner.nextLine();
       System.out.println("Pilih Kategori: ");
       lihat_kategori();
       System.out.print("Pilihan: ");
       int pilihan_kategori = scanner.nextInt();
       scanner.nextLine();
       Kategori kategori = dαtαΚαtegori.get(pilihan_kategori - 1);
       aksesori.set_nama(nama);
       aksesori.set_merek(merek);
       aksesori.set_harga(harga);
       aksesori.set_kategori(kategori);
   public static final void hapus_aksesori(){ 1usage
       System.out.println("=== Hapus Aksesori ===");
       lihat_aksesori();
       System.out.print("Pilih Aksesori: ");
       int pilihan = scanner.nextInt();
       scanner.nextLine();
       dαtαAksesori.remove( index: pilihan - 1);
   public static final void tambah_kategori(){  1usage
       System.out.println("=== Tambah Kategori ===");
       System.out.print("Nama Kategori: ");
       String nama_kategori = scanner.nextLine();
       Kategori kategori = new Kategori( idKategori: dataKategori.size() + 1, nama_kategori);
       dataKategori.add(kategori);
   public static final void lihat_kategori(){ 3 usages
       System.out.println("\n=== Lihat Kategori ===");
       if (dataKategori.isEmpty()) {
           System.out.println("Tidak ada kategori yang tersedia.");
           for (int i = 0; i < dataKategori.size(); i++) {</pre>
           System.out.println(dataKategori.get(i).dalam_string());
```