

Project UTS
OBJECT ORIENTED PROGRAMMING 1
“Aplikasi CRUD Servis Motor”



Dosen : Priyanto Tamami, S.Kom.

Disusun oleh :

Nama : Muhammad Irfan Bakhtiar
NIM : 17090047
Kelas : 4B

PROGRAM STUDI D4 TEKNIK INFORMATIKA
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Code Program

1. Pada Directory entity kita membuat java class dengan nama Servismtr.java
Yang berisikan code :

```
package entity;

public class Servismtr {

    private String id;
    private String pemilik;
    private String merk;

    public Servismtr(String id, String pemilik, String merk) {
        this.id = id;
        this.pemilik = pemilik;
        this.merk = merk;
    }

    public boolean equals(Object object){
        Servismtr tmp = (Servismtr) object;
        return id.equals(tmp.getId());
    }

    public String getId() {
        return id;
    }

    public void setId(String id) {
        this.id = id;
    }

    public String getPemilik() {
        return pemilik;
    }

    public void setPemilik(String pemilik) {
        this.pemilik = pemilik;
    }

    public String getMerk() {
        return merk;
    }

    public void setMerk(String merk) {
        this.merk = merk;
    }

}
```

2. Pada Directory service kita membuat java class dengan nama ServiceServismtr.java
Yang berisikan code :

```
package service;

import entity.*;
import java.util.*;

public class ServiceServismtr {
    private static List<Servismtr> data = new LinkedList<Servismtr>();

    public void tambahData(Servismtr srv){
        ServiceServismtr.data.add(srv);
        System.out.println("data telah tersimpan");
    }

    public void ubahData(Servismtr srv){
        int result = data.indexOf(srv);
        if(result >= 0){
            data.set(result, srv);
            System.out.println("data telah berubah");
        }
    }

    public void hapusData(String id){
        int idx = data.indexOf(new Servismtr(id,"",""));
        if(idx >= 0){
            data.remove(idx);
            System.out.println("Data telah terhapus");
        }else {
            System.out.println("Tidak ada data");
        }
    }

    public void cetakData() {
        System.out.println("----- cetak data -----");
        int i=1;
        for(Servismtr srv : data){
            System.out.println("data ke-" + i++);
            System.out.println("-----");
            System.out.println(" ID           : " + srv.getId());
            System.out.println(" Pemilik      : " + srv.getPemilik());
            System.out.println(" Merk Motor   : " + srv.getMerk());
            System.out.println("-----");
        }
    }
}
```

3. Pada Directory utama dengan nama 17090047 kita membuat java class yang berupa main class dengan nama Aplikasi.java
Yang berisikan code :

```
import entity.*;
import service.*;
import java.util.*;

public class Aplikasi {

    private static ServiceServismtr service;
    private static Scanner scanner;

    public static void main(String[] args){
        service = new ServiceServismtr();

        int opsi = 5;
        do {
            cetakMenu();
            scanner = new Scanner(System.in);
            try {
                opsi = scanner.nextInt();
            } catch (Exception e) {
                System.err.println("Tolong di cek inputnya mas/mba");
                opsi = 0;
            }
            prosesMenu(opsi);
        } while (opsi !=5);
    }

    private static void prosesMenu(int opsi) {
        switch (opsi){
            case 1 :
                formTambahData();
                break;
            case 2 :
                formUbahData();
                break;
            case 3 :
                formHapusData();
                break;
            case 4 :
                service.cetakData();
                break;
        }
    }

    private static void formHapusData(){
        System.out.println("\nForm Hapus Data");
        scanner = new Scanner(System.in);
        System.out.print("ID : ");
        String id = scanner.nextLine();
        service.hapusData(id);
    }

    private static void formUbahData(){
        String id, pemilik, merk;
        System.out.println("\nForm Ubah Data");
        scanner = new Scanner(System.in);
        System.out.print("ID : ");
        id = scanner.nextLine();
        System.out.print("PEMILIK : ");
        pemilik = scanner.nextLine();
        System.out.print("MERK MOTOR : ");
        merk = scanner.nextLine();
        service.ubahData(new Servismtr(id, pemilik, merk));
    }

    private static void formTambahData() {
        String id, pemilik, merk;
```

```

        System.out.println("\nForm Tambah Data");
        scanner = new Scanner(System.in);
        System.out.print("ID                : ");
        id = scanner.nextLine();
        System.out.print("PEMILIK                : ");
        pemilik = scanner.nextLine();
        System.out.print("MERK MOTOR            : ");
        merk = scanner.nextLine();
        simpanDataBaru(new Servismtr(id, pemilik, merk));
    }

    private static void simpanDataBaru(Servismtr srv) {
        service.tambahData(srv);
    }

    private static void cetakMenu() {
        System.out.println("|-----|");
        System.out.println("|          Aplikasi Servis Motor          |");
        System.out.println("|-----|");
        System.out.println("|");
        System.out.println("|          1. Tambah Data                  |");
        System.out.println("|          2. Ubah Data                    |");
        System.out.println("|          3. Hapus Data                   |");
        System.out.println("|          4. Tampilkan Data               |");
        System.out.println("|          5. KELUAR                       |");
        System.out.println("|");
        System.out.println("|-----|");
        System.out.println("|          By Muhammad Irfan Bakhtiar      |");
        System.out.println("|          17090047          4B           |");
        System.out.println("|-----|");
        System.out.print("Pilihan > ");
    }
}

```

Tampilan Aplikasi

```
|-----|
|      Aplikasi Servis Motor      |
|-----|
|
|      1. Tambah Data
|      2. Ubah Data
|      3. Hapus Data
|      4. Tampilkan Data
|      5. KELUAR
|
|-----|
|      By Muhammad Irfan Bakhtiar
|      17090047      4B
|-----|
Pilihan > |
```

Menu utama dari Aplikasi Service Motor

```
ID      :
PEMILIK  :
MERK MOTOR :
```

Menu pilihan 1 & 2

```
Form Hapus Data
ID :
```

Menu hapus data