Nama: Taufik Hidayat

NIM : 301200032

Kelas : IF Pagi

# Tugas Pemrograman Berorientasi Objek: Encapsulation pada Java dan PHP

#### A. Java

- 1. Source Code
  - Mahasiswa.java

```
package Encapsulation;
public class Mahasiswa {
  private String nama, nim, prodi, email;
  public void setNama(String nama) {
    this.nama = nama;
  public void setNim(String nim) {
    this.nim = nim;
  public void setProdi(String prodi) {
    this.prodi = prodi;
  public void setEmail(String email) {
    this.email = email;
  public String getNama() {
   return this.nama;
  public String getNim() {
   return this.nim;
```

```
public String getProdi() {
   return this.prodi;
}

public String getEmail() {
   return this.email;
}
```

## Main.java

```
package Encapsulation;
import java.util.Scanner;
public class Main {
 public static void main(String[] args) {
   Mahasiswa mhs = new Mahasiswa();
   Scanner in = new Scanner(System.in);
   System.out.print("Masukkan Nama Anda : ");
   mhs.setNama(in.nextLine());
   System.out.print("Masukkan NIM Anda : ");
   mhs.setNim(in.nextLine());
    System.out.print("Masukkan Prodi Anda : ");
   mhs.setProdi(in.nextLine());
   System.out.print("Masukkan Email Anda : ");
   mhs.setEmail(in.nextLine());
    System.out.println("====== Data Mahasiswa
========");
    System.out.println("Nama : " + mhs.getNama());
    System.out.println("NIM : " + mhs.getNim());
    System.out.println("Prodi : " + mhs.getProdi());
    System.out.println("Email : " + mhs.getEmail());
```

```
in.close();
```

## 2. Output

Masukkan Nama Anda : Taufik Hidayat Masukkan NIM Anda : 301200032

Masukkan Prodi Anda : Teknik Informatika

Masukkan Email Anda : tfkhdyt@pm.me

======= Data Mahasiswa ========

Nama : Taufik Hidayat

NIM : 301200032

Prodi : Teknik Informatika

Email : tfkhdyt@pm.me

#### B. PHP

#### 1. Source Code

index.php

```
<?php
error_reporting(E_ERROR | E_PARSE);
$input = $ GET["input"] || null;
$tampil = $ GET["tampil"] || null;
$ 404 = $ GET["404"] || null;
?>
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
  <title>Encapsulation pada PHP</title>
  <link rel="stylesheet"</pre>
href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.15.4/css/all.min.css" integrity="sha512-
1ycn6IcaQQ40/MKBW2W4Rhis/DbILU74C1vSrLJxCq57o941Ym01SwNsOMqvEB
```

```
FlcgUa6xLiPY/NS5R+E6ztJQ==" crossorigin="anonymous"
referrerpolicy="no-referrer" />
  <!--<li>rel="stylesheet"
href="node modules/bootstrap/dist/css/bootstrap.min.css" />-->
  <link rel="stylesheet" href="dist/css/bootstrap.min.css" />
  <link rel="stylesheet" href="dist/css/style.css" />
  <link rel="icon"</pre>
href="https://raw.githubusercontent.com/tfkhdyt/tfkhdyt-
portfolio/main/assets/img/favicon.ico" />
</head>
<body>
  <?php require "views/navbar.php"; ?>
  <?php if (isset($input) || $ GET == null) {</pre>
      require "views/input.php";
  } elseif (isset($tampil)) {
      require "views/tampil.php";
  } elseif (isset($ 404)) {
      require "views/404.php";
  } ?>
  <script src="dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```

## views/navbar.php

```
aria-controls="navbarSupportedContent" aria-expanded="false"
aria-label="Toggle navigation">
     <span class="navbar-toggler-icon"></span>
   </button>
   <div class="collapse navbar-collapse"</pre>
id="navbarSupportedContent">
     <a class="nav-link"
           <?php if (isset($input) || $ GET == null) {</pre>
              echo "active";
           } ?>" aria-current="page" href="/?input"><i</pre>
class="fas fa-plus-square"></i> Input Data</a>
       <a class="nav-link"
          <?php if (isset($tampil)) {</pre>
              echo "active";
           } ?>" href="/?tampil"><i class="fas fa-th-</pre>
list"></i> Tampil Data</a>
       <a class="nav-link" href="https://tfkhdyt.my.id/"</pre>
target=" blank"><i class="fas fa-user"></i> About Me</a>
       <a class="nav-link"
href="https://github.com/tfkhdyt/tugas-
kuliah/tree/main/Semester%203/Pemrograman%20Berorientasi%200bj
ek/Encapsulation/Source%20Code/PHP" target=" blank"><i
class="fas fa-code"></i> Source Code</a>
       </div>
 </div>
</nav>
```

```
<div class="container">
  <div class="row">
    <div class="col col-md-6 m-3 mx-md-0">
      <h4>Input Data Mahasiswa</h4>
      <?php if (isset($_GET["error"])): ?>
      <div class="alert alert-danger alert-dismissible fade</pre>
show" role="alert">
        <i class="fas fa-exclamation-triangle"></i> Anda harus
menginput data terlebih dahulu!
        <button type="button" class="btn-close" data-bs-</pre>
dismiss="alert" aria-label="Close"></button>
      </div>
      <?php endif; ?>
      <form action="?tampil" method="post" autocomplete="off">
        <div class="mb-3">
          <label for="nama">Nama</label>
          <input type="text" class="form-control" id="nama"</pre>
name="nama" placeholder=" " required>
        </div>
        <div class="mb-3">
          <label for="nim">NIM</label>
          <input type="number" class="form-control" id="nim"</pre>
name="nim" placeholder=" " required>
        </div>
        <div class="mb-3">
          <label for="prodi">Prodi</label>
          <!--<input type="text" class="form-control"
id="prodi" name="prodi" placeholder=" ">-->
          <select required class="form-select" aria-</pre>
label="Default select example" id="prodi" name="prodi">
            <option selected disabled value="">--- Pilih ---
</option>
            <option value="Sistem Informasi">Sistem
Informasi
            <option value="Teknik Informatika">Teknik
Informatika</option>
          </select>
        </div>
        <div class="mb-3">
          <label for="email">Email</label>
```

## views/tampil.php

```
<?php
class Mahasiswa {
   private $nama, $nim, $prodi, $email;
   public function setNama($nama) {
        $this->nama = $nama;
   public function setNim($nim) {
        $this->nim = $nim;
   public function setProdi($prodi) {
        $this->prodi = $prodi;
   public function setEmail($email) {
        $this->email = $email;
   public function getNama() {
       return $this->nama;
   public function getNim() {
       return $this->nim;
   public function getProdi() {
       return $this->prodi;
   public function getEmail() {
       return $this->email;
    }
$mhs = new Mahasiswa();
```

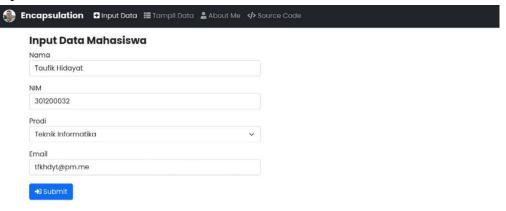
```
$mhs->setNama($_POST["nama"]);
$mhs->setNim($ POST["nim"]);
$mhs->setProdi($_POST["prodi"]);
$mhs->setEmail($ POST["email"]);
if (empty($ POST["nama"])): ?>
<script>location.replace("?input&error")</script>
<?php endif;
?>
<div class="container">
  <div class="row">
    <div class="col col-md-6 m-3 mx-md-0">
      <h4>Data Mahasiswa</h4>
      <!-- Nama -->
      <div class="row mb-2">
        <div class="col fw-bold">
         Nama
        </div>
        <div class="col-9">
          : <?= $mhs->getNama() ?>
        </div>
      </div>
      <!-- NIM -->
      <div class="row mb-2">
        <div class="col fw-bold">
          NIM
        </div>
        <div class="col-9">
          : <?= $mhs->getNim() ?>
        </div>
      </div>
      <!-- Prodi -->
      <div class="row mb-2">
        <div class="col fw-bold">
          Prodi
        </div>
        <div class="col-9">
          : <?= $mhs->getProdi() ?>
        </div>
      </div>
      <!-- Email -->
```

```
<div class="row mb-3">
        <div class="col fw-bold">
          Email
        </div>
        <div class="col-9">
          : <?= $mhs->getEmail() ?>
        </div>
      </div>
      <div class="row">
        <div class="col">
          <a class="btn btn-primary btn-sm" href="/?input"><i</pre>
class="fas fa-chevron-left"></i> Kembali</a>
        </div>
      </div>
   </div>
 </div>
</div>
```

## • views/404.php

## 2. Output

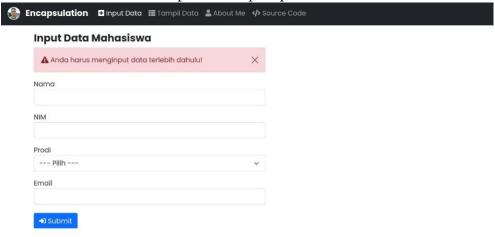
- Screenshots
  - o Input data



o Tampil data



o Jika masuk ke halaman tampil data tanpa input data terlebih dahulu



#### • Demo

https://encapsulation-tfkhdyt.herokuapp.com