



Jurusan Teknologi Informasi Politeknik Negeri Malang  
**Jobsheet-11: PHP – Web Dinamis Struktural**  
**Mata Kuliah Desain dan Pemrograman Web**  
Pengampu: Tim Ajar Desain dan Pemrograman Web  
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## Topik

- Konsep Pembuatan Web Dinamis Struktural dengan Modular

## Tujuan

Mahasiswa diharapkan dapat:

1. Mahasiswa mampu membuat fungsi hashing PHP
2. Mahasiswa mampu membuat dan mengisi tabel user, anggota, dan jabatan
3. Mahasiswa mampu membuat halaman login dan logout
4. Mahasiswa mampu membuat halaman utama, user, anggota, dan jabatan
5. Mahasiswa mampu membuat code secara modular

## Perhatian

Jobsheet ini harus dikerjakan step-by-step sesuai langkah-langkah praktikum yang sudah diberikan. Soal dapat dijawab langsung di dalam kolom yang disediakan dengan menggunakan PDF Editor.

## Pendahuluan

### Struktur Database

Rancangan database yang akan dibuat terdiri dari tiga tabel diantaranya ada **jabatan**, **anggota**, dan **user**. Di bawah ini adalah contoh serangkaian database yang akan dibuat:



Di bawah ini adalah struktur dari tabel **jabatan**:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	<b>id</b>	int(11)			No	None		AUTO_INCREMENT	More
2	<b>jabatan</b>	varchar(100)	utf8mb4_general_ci		No	None			More
3	<b>keterangan</b>	varchar(200)	utf8mb4_general_ci		No	None			More

Di bawah ini adalah struktur dari tabel **anggota**:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	<b>id</b>	int(11)			No	<i>None</i>		AUTO_INCREMENT	Change  Drop More
2	<b>nama</b>	varchar(100)	utf8mb4_general_ci		No	<i>None</i>			Change  Drop More
3	<b>jenis_kelamin</b>	enum('L', 'P')	utf8mb4_general_ci		No	<i>None</i>			Change  Drop More
4	<b>alamat</b>	varchar(200)	utf8mb4_general_ci		No	<i>None</i>			Change  Drop More
5	<b>no_telp</b>	varchar(20)	utf8mb4_general_ci		No	<i>None</i>			Change  Drop More
6	<b>user_id</b>	int(11)			No	<i>None</i>			Change  Drop More
7	<b>jabatan_id</b>	int(11)			No	<i>None</i>			Change  Drop More

Di bawah ini adalah struktur dari tabel **user**:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	<b>id</b>	int(11)			No	<i>None</i>		AUTO_INCREMENT	Change  Drop More
2	<b>username</b>	varchar(50)	utf8mb4_general_ci		No	<i>None</i>			Change  Drop More
3	<b>password</b>	varchar(100)	utf8mb4_general_ci		No	<i>None</i>			Change  Drop More
4	<b>salt</b>	varchar(50)	utf8mb4_general_ci		No	<i>None</i>			Change  Drop More
5	<b>level</b>	enum('admin', 'user')	utf8mb4_general_ci		No	user			Change  Drop More

### Struktur Folder dan Isi File

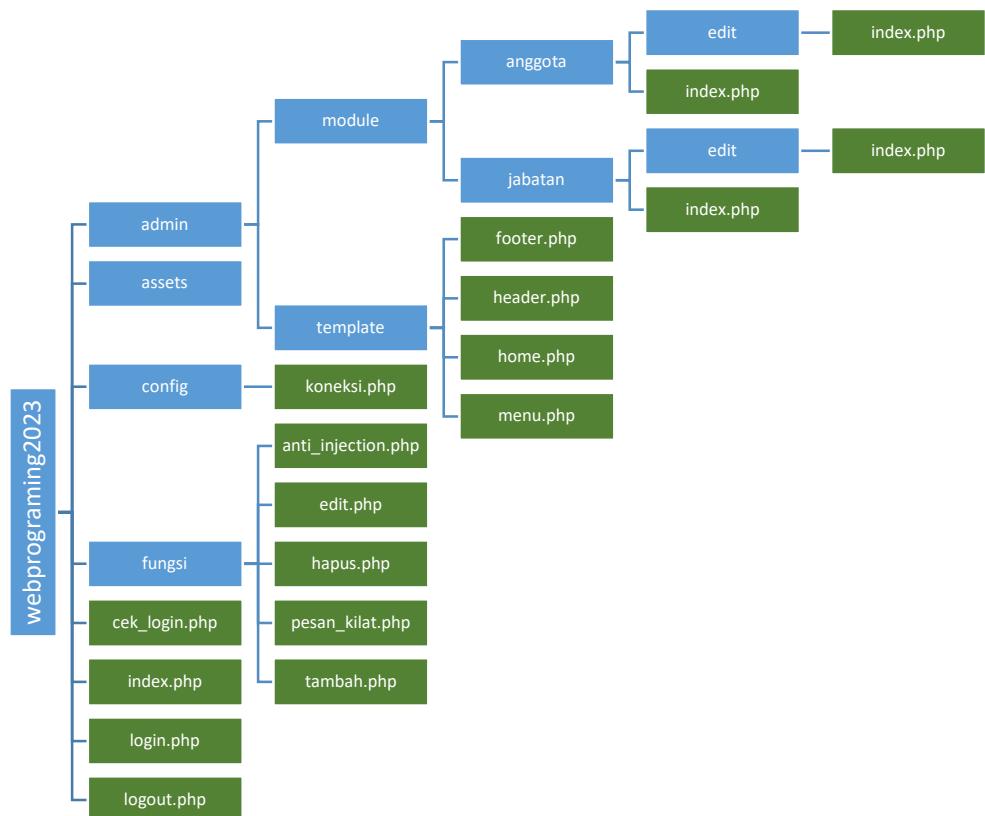


Diagram di atas merupakan struktur folder dan file dalam penggerjaan jobsheet kali ini. Untuk box berwana **biru** berupa folder, sedangkan box berwana **hijau** berupa file bertipe php. Dapat dilihat di atas merupakan rangkaian

pengerjaan secara modular. Terdapat satu folder yang tidak memiliki hirarki yaitu folder **assets**, jadi untuk melengkapi isi dari folder tersebut silakan download pada link berikut  
"<https://drive.google.com/file/d/1uwJP5eoT9AsOVqtxCoDulhhCHGKJZCGm/view?usp=sharing>"

## Praktikum 1. Struktur Folder dan File Paling Atas

Langkah	Keterangan
1	Buatlah beberapa folder dengan ketentuan <b>admin</b> , <b>template</b> , <b>assets</b> , <b>config</b> , dan <b>fungsi</b> . Kemudian buat file baru dengan nama <code>index.php</code> .
2	Ketikkan ke dalam file <code>index.php</code> tersebut kode di bawah ini.
3	<pre>&lt;?php if (session_status() === PHP_SESSION_NONE)     session_start();  if (!empty(\$_SESSION['level'])) {     require 'config/koneksi.php';     require 'fungsi/pesan_kilat.php';      include 'admin/template/header.php';     if (!empty(\$_GET['page'])) {         include 'admin/module/' . \$_GET['page'] . '/index.php';     } else {         include 'admin/template/home.php';     }     include 'admin/template/footer.php'; } else {     header("Location: login.php"); }</pre>
4	Berikutnya buat file baru yaitu <code>login.php</code> dan ketikan kode di bawah ini.



	Jika anda lelah untuk mengetiknya bisa download di “ <a href="https://github.com/twbs/bootstrap/releases/download/v5.3.2/bootstrap-5.3.2-examples.zip">https://github.com/twbs/bootstrap/releases/download/v5.3.2/bootstrap-5.3.2-examples.zip</a> ” Dan cari tampilan sign-in
5	Berikutnya buat file baru yaitu cek_login.php dan ketikan kode di bawah ini. <pre>&lt;?php if (session_status() === PHP_SESSION_NONE)   session_start();  include "config/koneksi.php"; include "fungsi/pesan_kilat.php"; include "fungsi/anti_injection.php";  \$username = antiinjection(\$koneksi, \$_POST['username']); \$password = antiinjection(\$koneksi, \$_POST['password']);  \$query = "SELECT username, level, salt, password as hashed_password FROM user WHERE username = '\$username'"; \$result = mysqli_query(\$koneksi, \$query); \$row = mysqli_fetch_assoc(\$result); mysqli_close(\$koneksi); \$salt = \$row['salt']; \$hashed_password = \$row['hashed_password'];  if (\$salt !== null &amp;&amp; \$hashed_password !== null) {     \$combined_password = \$salt . \$password;      if (password_verify(\$combined_password, \$hashed_password)) {         \$_SESSION['username'] = \$row['username'];         \$_SESSION['level'] = \$row['level'];         header("Location: index.php");     } else {         pesan('danger', "Login gagal. Password Anda Salah.");         header("Location: login.php");     } } else {     pesan('warning', "Username tidak ditemukan.");     header("Location: login.php"); }</pre>
	Apa yang anda pahami dari code di atas. Catat di bawah ini pemahaman anda. (soal no 1.1)
6	Berikutnya buat file baru yaitu logout.php dan ketikan kode di bawah ini. <pre>&lt;?php if (session_status() === PHP_SESSION_NONE)   session_start(); session_destroy();  header('location:index.php');</pre>
7	Berikutnya buat folder baru yaitu config dan file baru yaitu koneksi.php dan ketikan kode di bawah ini. <pre>&lt;?php date_default_timezone_set("Asia/Jakarta"); \$koneksi = mysqli_connect("localhost", "root", "", "prakwebdb");  if (mysqli_connect_errno()) {     die("Koneksi database gagal: " . mysqli_connect_error()); }</pre>

## Praktikum 2. Folder Fungsi

Langkah	Keterangan
1	Buat satu folder baru dengan nama <b>fungsi</b> dan file baru bernama anti_injection.php. Ketikkan kode seperti di bawah ini.
2	<pre>&lt;?php function antiinjection(\$koneksi, \$data) {     \$filter_sql = mysqli_real_escape_string(\$koneksi, stripslashes(strip_tags(htmlspecialchars(\$data, ENT_QUOTES))));      return \$filter_sql; }</pre>
3	Apa yang anda pahami dari code di atas. Catat di bawah ini pemahaman anda. (soal no 2.1)
4	Buat file baru pada folder <b>fungsi</b> dengan nama pesan_kilat.php. Ketikkan kode seperti di bawah ini.
	<pre>&lt;?php function set_flashdata(\$key = "", \$value = "") {     if( empty(\$key) &amp;&amp; !empty(\$value)) {         (!\$data = \$_SESSION['_flashdata'][\$key] = \$value);         return true;     }     return false; }  function get_flashdata(\$key = "")  {     if( empty(\$key) &amp;&amp; isset(\$_SESSION['_flashdata'][\$key])) {         (!\$_data = \$_SESSION['_flashdata'][\$key]);         unset(\$_SESSION['_flashdata'][\$key]);         return \$data;     } else {         echo "&lt;script&gt; alert(' Flash Message \\'{\$key}\\' is not defined. ')&lt;/script&gt;";     } }  function pesan(\$key = "", \$pesan = "")  {     if (\$key == "info") {         set_flashdata('info', "&lt;div class='alert alert-primary alert-dismissible fade show' role='alert'&gt;                     &lt;strong&gt;Info! &lt;/strong&gt; {\$pesan}                     &lt;button type='button' class='btn-close' data-bs-dismiss='alert' aria-label='Close'&gt;&lt;/button&gt;                 &lt;/div&gt;");     } elseif (\$key == "success") {         set_flashdata('success', "&lt;div class='alert alert-success alert-dismissible fade show' role='alert'&gt;                     &lt;strong&gt;Berhasil! &lt;/strong&gt; {\$pesan}                     &lt;button type='button' class='btn-close' data-bs-dismiss='alert' aria-label='Close'&gt;&lt;/button&gt;                 &lt;/div&gt;");     } elseif (\$key == "danger") {         set_flashdata('danger', "&lt;div class='alert alert-danger alert-dismissible fade show' role='alert'&gt;                     &lt;strong&gt;Gagal! &lt;/strong&gt; {\$pesan}                     &lt;button type='button' class='btn-close' data-bs-dismiss='alert' aria-label='Close'&gt;&lt;/button&gt;                 &lt;/div&gt;");     } elseif (\$key == "warning") {         set_flashdata('warning', "&lt;div class='alert alert-warning alert-dismissible fade show' role='alert'&gt;                     &lt;strong&gt;Peringatan! &lt;/strong&gt; {\$pesan}                     &lt;button type='button' class='btn-close' data-bs-dismiss='alert' aria-label='Close'&gt;&lt;/button&gt;                 &lt;/div&gt;");      } }</pre>
5	Apa yang anda pahami dari code di atas. Catat di bawah ini pemahaman anda. (soal no 2.2)

### Praktikum 3. Folder Template

Langkah	Keterangan
1	Buat satu folder baru dengan nama <b>template</b> yang berada di dalam folder <b>admin</b> dan file baru bernama <b>header.php</b> . Ketikkan kode seperti di bawah ini.

```

<!DOCTYPE html>
<html lang="en" data-bs-theme="auto">
  <head>
    <script src="assets/js/color-mode.js"></script>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <meta name="description" content="A simple example website built with Bootstrap.">
    <meta name="author" content="Mark Otto, Jacob Thornton, and Bootstrap contributors">
    <meta name="generator" content="Hugo 0.118.2">
    <title>Aplikasi Kantor Siapa</title>
    <link href="assets/dist/css/bootstrap.min.css" rel="stylesheet">
    <link href="https://getbootstrap.com/docs/5.1/examples/dashboard/" rel="canonical" href="https://getbootstrap.com/docs/5.1/examples/dashboard/>

    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/@mdbootstrap/css@3">
    <link href="assets/dist/css/bootstrap.min.css" rel="stylesheet">

    <style>
      .bd-placeholder-img {
        font-size: 1.5em;
        color: #ccc;
        text-anchor: middle;
        -webkit-user-select: none;
        -moz-user-select: none;
        user-select: none;
      }

      @media (min-width: 768px) {
        .bd-placeholder-img {
          font-size: 3em;
        }
      }

      .b-example-divider {
        width: 100%;
        height: 3rem;
        background-color: rgba(0, 0, 0, .1);
        border: solid 1px #ccc;
        border-width: 1px 0;
        box-shadow: inset 0 1em 0 0 1em #ccc, inset 0 1.25em .5em rgba(0, 0, 0, .15);
      }

      .b-example-vr {
        flex-shrink: 0;
        width: 1.5rem;
        height: 100vh;
      }

      .bli {
        vertical-align: -0.25em;
        fill: currentColor;
      }

      .nav-scroller {
        position: relative;
        z-index: 2;
        height: 1.25rem;
        overflow-y: hidden;
      }

      .nav-scroller .nav {
        display: flex;
        flex-wrap: nowrap;
        padding: 1rem;
        margin-top: 1px;
        overflow-x: auto;
        text-align: center;
        white-space: nowrap;
        -webkit-overflow-scrolling: touch;
      }

      .btn-be-primary {
        --bd-violet-bg: #712cf9;
        --bd-violet-rgb: 117.0.28718, 44.062154, 249.437846;

        --bs-btn-font-weight: bold;
        --bs-btn-color: var(--bs-white);
        --bs-btn-bg: var(--bd-violet-bg);
        --bs-btn-border-color: var(--bd-violet-bg);
        --bs-btn-hover-color: var(--bs-white);
        --bs-btn-hover-bg: var(--bd-violet-bg);
        --bs-btn-active-color: #652ae0;
        --bs-btn-focus-shadow-rgb: var(--bd-violet-rgb);
        --bs-btn-active-color: var(--bs-btn-hover-color);
        --bs-btn-active-border-color: #652ae0;
      }

      .bd-node-toggle {
        z-index: 1500;
      }

      .bd-node-toggle .dropdown-menu .active .bli {
        display: block !important;
      }
    </style>

    <link href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.5.0/font/bootstrap-icons.min.css" rel="stylesheet">
    <link href="assets/custom/dashboard.css" rel="stylesheet">
  </head>
  <body>
    <img xmlns="http://www.w3.org/2000/svg" class="d-none" alt="Checkmark icon" viewBox="0 0 16 16" data-bbox="167 45 912 50"/>
    <img alt="Cross icon" data-bbox="167 50 912 55"/>
    <img alt="Moon stars icon" data-bbox="167 55 912 60"/>
    <img alt="Graph up icon" data-bbox="167 60 912 65"/>
    <img alt="House fill icon" data-bbox="167 65 912 70"/>
    <img alt="Dots grid icon" data-bbox="167 70 912 75"/>
    <img alt="Plus circle icon" data-bbox="167 75 912 80"/>
    <img alt="Search icon" data-bbox="167 80 912 85"/>
    <img alt="List icon" data-bbox="167 85 912 90"/>
    <img alt="Evensodd icon" data-bbox="167 90 912 95"/>
    <img alt="File earmark icon" data-bbox="167 95 912 100"/>
    <img alt="Door closed icon" data-bbox="167 100 912 105"/>
    <img alt="File earmark text icon" data-bbox="167 105 912 110"/>
    <img alt="Gear wide connected icon" data-bbox="167 110 912 115"/>
    <img alt="List icon" data-bbox="167 115 912 120"/>
    <img alt="House fill icon" data-bbox="167 120 912 125"/>
    <img alt="Dots grid icon" data-bbox="167 125 912 130"/>
    <img alt="Plus circle icon" data-bbox="167 130 912 135"/>
    <img alt="Search icon" data-bbox="167 135 912 140"/>
    <img alt="List icon" data-bbox="167 140 912 145"/>
    <img alt="Evensodd icon" data-bbox="167 145 912 150"/>
    <img alt="File earmark icon" data-bbox="167 150 912 155"/>
    <img alt="Door closed icon" data-bbox="167 155 912 160"/>
    <img alt="File earmark text icon" data-bbox="167 160 912 165"/>
    <img alt="Gear wide connected icon" data-bbox="167 165 912 170"/>
    <img alt="List icon" data-bbox="167 170 912 175"/>
    <img alt="House fill icon" data-bbox="167 175 912 180"/>
    <img alt="Dots grid icon" data-bbox="167 180 912 185"/>
    <img alt="Plus circle icon" data-bbox="167 185 912 190"/>
    <img alt="Search icon" data-bbox="167 190 912 195"/>
    <img alt="List icon" data-bbox="167 195 912 200"/>
    <img alt="Evensodd icon" data-bbox="167 200 912 205"/>
    <img alt="File earmark icon" data-bbox="167 205 912 210"/>
    <img alt="Door closed icon" data-bbox="167 210 912 215"/>
    <img alt="File earmark text icon" data-bbox="167 215 912 220"/>
    <img alt="Gear wide connected icon" data-bbox="167 220 912 225"/>
    <img alt="List icon" data-bbox="167 225 912 230"/>
    <img alt="House fill icon" data-bbox="167 230 912 235"/>
    <img alt="Dots grid icon" data-bbox="167 235 912 240"/>
    <img alt="Plus circle icon" data-bbox="167 240 912 245"/>
    <img alt="Search icon" data-bbox="167 245 912 250"/>
    <img alt="List icon" data-bbox="167 250 912 255"/>
    <img alt="Evensodd icon" data-bbox="167 255 912 260"/>
    <img alt="File earmark icon" data-bbox="167 260 912 265"/>
    <img alt="Door closed icon" data-bbox="167 265 912 270"/>
    <img alt="File earmark text icon" data-bbox="167 270 912 275"/>
    <img alt="Gear wide connected icon" data-bbox="167 275 912 280"/>
    <img alt="List icon" data-bbox="167 280 912 285"/>
    <img alt="House fill icon" data-bbox="167 285 912 290"/>
    <img alt="Dots grid icon" data-bbox="167 290 912 295"/>
    <img alt="Plus circle icon" data-bbox="167 295 912 300"/>
    <img alt="Search icon" data-bbox="167 300 912 305"/>
    <img alt="List icon" data-bbox="167 305 912 310"/>
    <img alt="Evensodd icon" data-bbox="167 310 912 315"/>
    <img alt="File earmark icon" data-bbox="167 315 912 320"/>
    <img alt="Door closed icon" data-bbox="167 320 912 325"/>
    <img alt="File earmark text icon" data-bbox="167 325 912 330"/>
    <img alt="Gear wide connected icon" data-bbox="167 330 912 335"/>
    <img alt="List icon" data-bbox="167 335 912 340"/>
    <img alt="House fill icon" data-bbox="167 340 912 345"/>
    <img alt="Dots grid icon" data-bbox="167 345 912 350"/>
    <img alt="Plus circle icon" data-bbox="167 350 912 355"/>
    <img alt="Search icon" data-bbox="167 355 912 360"/>
    <img alt="List icon" data-bbox="167 360 912 365"/>
    <img alt="Evensodd icon" data-bbox="167 365 912 370"/>
    <img alt="File earmark icon" data-bbox="167 370 912 375"/>
    <img alt="Door closed icon" data-bbox="167 375 912 380"/>
    <img alt="File earmark text icon" data-bbox="167 380 912 385"/>
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    <img alt="List icon" data-bbox="167 390 912 395"/>
    <img alt="House fill icon" data-bbox="167 395 912 400"/>
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    <img alt="Plus circle icon" data-bbox="167 405 912 410"/>
    <img alt="Search icon" data-bbox="167 410 912 415"/>
    <img alt="List icon" data-bbox="167 415 912 420"/>
    <img alt="Evensodd icon" data-bbox="167 420 912 425"/>
    <img alt="File earmark icon" data-bbox="167 425 912 430"/>
    <img alt="Door closed icon" data-bbox="167 430 912 435"/>
    <img alt="File earmark text icon" data-bbox="167 435 912 440"/>
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    <img alt="List icon" data-bbox="167 445 912 450"/>
    <img alt="House fill icon" data-bbox="167 450 912 455"/>
    <img alt="Dots grid icon" data-bbox="167 455 912 460"/>
    <img alt="Plus circle icon" data-bbox="167 460 912 465"/>
    <img alt="Search icon" data-bbox="167 465 912 470"/>
    <img alt="List icon" data-bbox="167 470 912 475"/>
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    <img alt="File earmark icon" data-bbox="167 480 912 485"/>
    <img alt="Door closed icon" data-bbox="167 485 912 490"/>
    <img alt="File earmark text icon" data-bbox="167 490 912 495"/>
    <img alt="Gear wide connected icon" data-bbox="167 495 912 500"/>
    <img alt="List icon" data-bbox="167 500 912 505"/>
    <img alt="House fill icon" data-bbox="167 505 912 510"/>
    <img alt="Dots grid icon" data-bbox="167 510 912 515"/>
    <img alt="Plus circle icon" data-bbox="167 515 912 520"/>
    <img alt="Search icon" data-bbox="167 520 912 525"/>
    <img alt="List icon" data-bbox="167 525 912 530"/>
    <img alt="Evensodd icon" data-bbox="167 530 912 535"/>
    <img alt="File earmark icon" data-bbox="167 535 912 540"/>
    <img alt="Door closed icon" data-bbox="167 540 912 545"/>
    <img alt="File earmark text icon" data-bbox="167 545 912 550"/>
    <img alt="Gear wide connected icon" data-bbox="167 550 912 555"/>
    <img alt="List icon" data-bbox="167 555 912 560"/>
    <img alt="House fill icon" data-bbox="167 560 912 565"/>
    <img alt="Dots grid icon" data-bbox="167 565 912 570"/>
    <img alt="Plus circle icon" data-bbox="167 570 912 575"/>
    <img alt="Search icon" data-bbox="167 575 912 580"/>
    <img alt="List icon" data-bbox="167 580 912 585"/>
    <img alt="Evensodd icon" data-bbox="167 585 912 590"/>
    <img alt="File earmark icon" data-bbox="167 590 912 595"/>
    <img alt="Door closed icon" data-bbox="167 595 912 600"/>
    <img alt="File earmark text icon" data-bbox="167 600 912 605"/>
    <img alt="Gear wide connected icon" data-bbox="167 605 912 610"/>
    <img alt="List icon" data-bbox="167 610 912 615"/>
    <img alt="House fill icon" data-bbox="167 615 912 620"/>
    <img alt="Dots grid icon" data-bbox="167 620 912 625"/>
    <img alt="Plus circle icon" data-bbox="167 625 912 630"/>
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    <img alt="Gear wide connected icon" data-bbox="167 660 912 665"/>
    <img alt="List icon" data-bbox="167 665 912 670"/>
    <img alt="House fill icon" data-bbox="167 670 912 675"/>
    <img alt="Dots grid icon" data-bbox="167 675 912 680"/>
    <img alt="Plus circle icon" data-bbox="167 680 912 685"/>
    <img alt="Search icon" data-bbox="167 685 912 690"/>
    <img alt="List icon" data-bbox="167 690 912 695"/>
    <img alt="Evensodd icon" data-bbox="167 695 912 700"/>
    <img alt="File earmark icon" data-bbox="167 700 912 705"/>
    <img alt="Door closed icon" data-bbox="167 705 912 710"/>
    <img alt="File earmark text icon" data-bbox="167 710 912 715"/>
    <img alt="Gear wide connected icon" data-bbox="167 715 912 720"/>
    <img alt="List icon" data-bbox="167 720 912 725"/>
    <img alt="House fill icon" data-bbox="167 725 912 730"/>
    <img alt="Dots grid icon" data-bbox="167 730 912 735"/>
    <img alt="Plus circle icon" data-bbox="167 735 912 740"/>
    <img alt="Search icon" data-bbox="167 740 912 745"/>
    <img alt="List icon" data-bbox="167 745 912 750"/>
    <img alt="Evensodd icon" data-bbox="167 750 912 755"/>
    <img alt="File earmark icon" data-bbox="167 755 912 760"/>
    <img alt="Door closed icon" data-bbox="167 760 912 765"/>
    <img alt="File earmark text icon" data-bbox="167 765 912 770"/>
    <img alt="Gear wide connected icon" data-bbox="167 770 912 775"/>
    <img alt="List icon" data-bbox="167 775 912 780"/>
    <img alt="House fill icon" data-bbox="167 780 912 785"/>
    <img alt="Dots grid icon" data-bbox="167 785 912 790"/>
    <img alt="Plus circle icon" data-bbox="167 790 912 795"/>
    <img alt="Search icon" data-bbox="167 795 912 800"/>
    <img alt="List icon" data-bbox="167 800 912 805"/>
    <img alt="Evensodd icon" data-bbox="167 805 912 810"/>
    <img alt="File earmark icon" data-bbox="167 810 912 815"/>
    <img alt="Door closed icon" data-bbox="167 815 912 820"/>
    <img alt="File earmark text icon" data-bbox="167 820 912 825"/>
    <img alt="Gear wide connected icon" data-bbox="167 825 912 830"/>
    <img alt="List icon" data-bbox="167 830 912 835"/>
    <img alt="House fill icon" data-bbox="167 835 912 840"/>
    <img alt="Dots grid icon" data-bbox="167 840 912 845"/>
    <img alt="Plus circle icon" data-bbox="167 845 912 850"/>
    <img alt="Search icon" data-bbox="167 850 912 855"/>
    <img alt="List icon" data-bbox="167 855 912 860"/>
    <img alt="Evensodd icon" data-bbox="167 860 912 865"/>
    <img alt="File earmark icon" data-bbox="167 865 912 870"/>
    <img alt="Door closed icon" data-bbox="167 870 912 875"/>
    <img alt="File earmark text icon" data-bbox="167 875 912 880"/>
    <img alt="Gear wide connected icon" data-bbox="167 880 912 885"/>
    <img alt="List icon" data-bbox="167 885 912 890"/>
    <img alt="House fill icon" data-bbox="167 890 912 895"/>
    <img alt="Dots grid icon" data-bbox="167 895 912 900"/>
    <img alt="Plus circle icon" data-bbox="167 900 912 905"/>
    <img alt="Search icon" data-bbox="167 905 912 910"/>
    <img alt="List icon" data-bbox="167 910 912 915"/>
    <img alt="Evensodd icon" data-bbox="167 915 912 920"/>
    <img alt="File earmark icon" data-bbox="167 920 912 925"/>
    <img alt="Door closed icon" data-bbox="167 925 912 930"/>
    <img alt="File earmark text icon" data-bbox="167 930 912 935"/>
    <img alt="Gear wide connected icon" data-bbox="167 935 912 940"/>
    <img alt="List icon" data-bbox="167 940 912 945"/>
    <img alt="House fill icon" data-bbox="167 945 912 950"/>
    <img alt="Dots grid icon" data-bbox="167 950 912 955"/>
    <img alt="Plus circle icon" data-bbox="167 955 912 960"/>
    <img alt="Search icon" data-bbox="167 960 912 965"/>
    <img alt="List icon" data-bbox="167 965 912 970"/>
    <img alt="Evensodd icon" data-bbox="167 970 912 975"/>
    <img alt="File earmark icon" data-bbox="167 975 912 980"/>
    <img alt="Door closed icon" data-bbox="167 980 912 985"/>
    <img alt="File earmark text icon" data-bbox="167 985 912 990"/>
    <img alt="Gear wide connected icon" data-bbox="167 990 912 995"/>
    <img alt="List icon" data-bbox="167 995 912 1000"/>
  </body>
</html>
```

	Jika anda lelah untuk mengetiknya bisa download di “ <a href="https://github.com/twbs/bootstrap/releases/download/v5.3.2/bootstrap-5.3.2-examples.zip">https://github.com/twbs/bootstrap/releases/download/v5.3.2/bootstrap-5.3.2-examples.zip</a> ” Dan cari tampilan dashboard
3	Buat satu file baru bernama <code>footer.php</code> di dalam folder <b>template</b> . Ketikkan kode di bawah ini <pre>&lt;script src="assets/dist/js/bootstrap.bundle.min.js"&gt;&lt;/script&gt;  &lt;script src="https://cdn.jsdelivr.net/npm/chart.js@4.3.2/dist/chart.umd.js" integrity="sha384-eI7PSr3L1XLISH8JdDI5YN/njoSxfrkCTnJrzXt+NP5MOVbxD+l6sEG4zolP" crossorigin="anonymous"&gt;&lt;/script&gt; &lt;script src="assets/custom/dashboard.js"&gt;&lt;/script&gt; &lt;/body&gt;  &lt;/html&gt;</pre>
4	Buat satu file baru bernama <code>menu.php</code> di dalam folder <b>template</b> . Ketikkan kode di bawah ini <pre>&lt;div class="sidebar border-right col-md-3 col-lg-2 p-0 bg-body-tertiary"&gt;     &lt;div class="offcanvas-end bg-body-tertiary" tabindex="-1" id="sidebarMenu" aria-labelledby="sidebarMenuLabel"&gt;         &lt;div class="offcanvas-header"&gt;             &lt;h5 class="offcanvas-title" id="sidebarMenuLabel"&gt;Aplikasi Kantor Siapa&lt;/h5&gt;             &lt;button type="button" class="btn-close" data-bs-dismiss="offcanvas" data-bs-target="#sidebarMenu" aria-label="Close"&gt;&lt;/button&gt;         &lt;/div&gt;         &lt;div class="offcanvas-body d-md-flex flex-column p-0 pt-lg-3 overflow-y-auto"&gt;             &lt;ul class="nav flex-column"&gt;                 &lt;li class="nav-item"&gt;                     &lt;a class="nav-link d-flex align-items-center gap-2 active" aria-current="page" href="index.php"&gt;                         &lt;svg class="bi"&gt;                             &lt;use xlink:href="#house-fill" /&gt;                         &lt;/svg&gt;                         Dashboard                     &lt;/a&gt;                 &lt;/li&gt;                 &lt;li class="nav-item"&gt;                     &lt;a class="nav-link d-flex align-items-center gap-2" href="index.php?page=anggota"&gt;                         &lt;svg class="bi"&gt;                             &lt;use xlink:href="#people" /&gt;                         &lt;/svg&gt;                         Anggota                     &lt;/a&gt;                 &lt;/li&gt;                 &lt;li class="nav-item"&gt;                     &lt;a class="nav-link d-flex align-items-center gap-2" href="index.php?page=jabatan"&gt;                         &lt;svg class="bi"&gt;                             &lt;use xlink:href="#puzzle" /&gt;                         &lt;/svg&gt;                         Jabatan                     &lt;/a&gt;                 &lt;/li&gt;             &lt;/ul&gt;             &lt;hr class="my-3"&gt;             &lt;ul class="nav flex-column mb-auto"&gt;                 &lt;li class="nav-item"&gt;                     &lt;a class="nav-link d-flex align-items-center gap-2" href="#"&gt;                         &lt;svg class="bi"&gt;                             &lt;use xlink:href="#gear-wide-connected" /&gt;                         &lt;/svg&gt;                         Settings                     &lt;/a&gt;                 &lt;/li&gt;                 &lt;li class="nav-item"&gt;                     &lt;a class="nav-link d-flex align-items-center gap-2" href="logout.php"&gt;                         &lt;svg class="bi"&gt;                             &lt;use xlink:href="#door-closed" /&gt;                         &lt;/svg&gt;                         Log out                     &lt;/a&gt;                 &lt;/li&gt;             &lt;/ul&gt;         &lt;/div&gt;     &lt;/div&gt; &lt;/div&gt;</pre>
5	Buat satu file baru bernama <code>home.php</code> di dalam folder <b>template</b> . Ketikkan kode di bawah ini

```

<div class="container-fluid">
    <div class="row">
        <?php
            include "menu.php";
        ?>

        $query_anggota = "SELECT count(id) as jml FROM anggot ";
        $result_anggota = mysqli_query($koneksi, $query_anggota);
        $row_anggota = mysqli_fetch_assoc($result_anggota);

        $query_jabatan = "SELECT count(id) as jml FROM jabata ";
        $result_jabatan = mysqli_query($koneksi, $query_jabatan);
        $row_jabatan = mysqli_fetch_assoc($result_jabatan);
    ?>

    <main class="col-md-9 ms-sm-auto col-lg-10 px-md-4">
        <div class="d-flex justify-content-between flex-wrap flex-md-nowrap align-items-center pt-3 pb-2 mb-3 border-bottom">
            <h1 class="h2">Dashboard</h1>
        </div>
        <div class="row">
            <div class="col-sm-6">
                <div class="card">
                    <div class="card-body">
                        <h5 class="card-title">ANGGOTA</h5>
                        <p class="card-text">Total anggota sejumlah <?= $row_anggota['jml'] ?> orang.</p>
                        <a href="index.php?page=anggota" class="btn btn-primary"><i class="fa fa-users" aria-hidden="true"></i> Kelola</a>
                    </div>
                </div>
            <div class="col-sm-6">
                <div class="card">
                    <div class="card-body">
                        <h5 class="card-title">JABATAN</h5>
                        <p class="card-text">Total jabatan sejumlah <?= $row_jabatan['jml'] ?>. </p>
                        <a href="index.php?page=jabatan" class="btn btn-primary"><i class="fa fa-puzzle-piece" aria-hidden="true"></i> Kelola</a>
                    </div>
                </div>
            </div>
        </div>
    </main>
</div>

```

6	<p>Isi tabel user dengan ketentuan username: admin, password: <b>\$2y\$10\$KVL240kvYhk1htnB0BvXL.0SInfs2QcJ/LvzzR7IPhkGfS3GBelW00</b>, salt: 8ad2e053c563c20a803cf4698d95bf9d, level: admin. Kemudian buka browser dan jalankan/refresh localhost/webprograming2023/ Untuk masuk gunakan username: admin dan password: admin. Catat di sini apa yang anda amati dari praktikum 1 sampai dengan 3. (soal no 3.1)</p>
---	---

#### Praktikum 4. Folder Module – Bagian Jabatan

Langkah-langkah Praktikum :

Langkah	Keterangan
1	Buat satu folder baru dengan nama <b>jabatan</b> berada di dalam folder <b>module</b> dan berada di dalam folder <b>admin</b> . Kemudian buat file baru bernama <b>index.php</b> . Ketikkan kode seperti di bawah ini.

```


<?php
require 'admin/template/menu.php';
?>

<main class="col-md-9 ms-sm-auto col-lg-10 px-md-4">
<div class="d-flex justify-content-between flex-wrap flex-md-nowrap align-items-center pt-3 pb-2 mb-3 border-bottom">
<div>
<h2>Jabatan</h2>
</div>
<div class="row">
<div class="col-lg-2">
<button type="button" class="btn btn-primary" data-bs-toggle="modal" data-bs-target="#exampleModal" data-bs-whatever="@mdo">
<i class="fa fa-plus"></i> Tambah Jabatan</button>
</div>
</div>
<?php if (isset($_SESSION['_flashdata'])) {
echo "<br>";
foreach ($_SESSION['_flashdata'] as $key => $val) {
echo get_flashdata($key);
}
}
?>
<div class="table-responsive small">
<table class="table table-striped">
<thead>
<tr>
<th scope="col">No</th>
<th scope="col">Jabatan</th>
<th scope="col">Keterangan</th>
<th scope="col">Aksi</th>
</tr>
</thead>
<tbody>
<?php
$no = 1;
$query = "SELECT * FROM jabatan order by id desc";
$result = mysqli_query($koneksi, $query);
while ($row = mysqli_fetch_assoc($result)) {
?>
<tr>
<th scope="row"><?= $no++ ; ?></th>
<td><?= $row['jabatan'] ; ?></td>
<td><?= $row['keterangan'] ; ?></td>
<td>
<a href="index.php?page=jabatan/edit&id=<?php echo $row['id'] ; ?>" class="btn btn-warning btn-xs"><i class="fa fa-pencil-square-o" aria-hidden="true"></i> Edit</a>
<a href="fungsi/hapus.php?jabatan=hapus&id=<?php echo $row['id'] ; ?>" onclick="javascript:return confirm('Hapus Data Jabatan ?');" class="btn btn-danger btn-xs"><i class="fa fa-trash-o" aria-hidden="true"></i> Hapus</a>
</td>
</tr>
<?php
}
?>
</tbody>
</table>
</div>

<div class="modal fade" id="exampleModal" tabindex="-1" aria-labelledby="exampleModalLabel" aria-hidden="true">
<div class="modal-dialog">
<div class="modal-content">
<div class="modal-header">
<h1 class="modal-title fs-5" id="exampleModalLabel">Form Jabatan</h1>
<button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
</div>
<form action="fungsi/tambah.php?jabatan=tambah" method="POST">
<div class="modal-body">
<div class="mb-3">
<label for="recipient-name" class="col-form-label">Nama Jabatan:</label>
<input type="text" name="jabatan" class="form-control" id="recipient-name">
</div>
<div class="mb-3">
<label for="message-text" class="col-form-label">Keterangan:</label>
<textarea class="form-control" name="keterangan" id="message-text" ></textarea>
</div>
<div class="modal-footer">
<button type="button" class="btn btn-secondary" data-bs-dismiss="modal"><i class="fa fa-times" aria-hidden="true"></i> Close</button>
<button type="submit" class="btn btn-primary"><i class="fa fa-floppy-o" aria-hidden="true"></i> Simpan</button>
</div>
</div>
</form>
</div>
</div>
</main>
</div>
</div>


```

3	Buat satu file dengan nama tambah.php dan dimasukan dalam folder <b>fungsi</b> . Ketikkan kode seperti di bawah ini
4	<pre> &lt;?php session_start(); if (!empty(\$_SESSION['username'])) {     require '../config/koneksi.php';     require '../fungsi/pesan_kilat.php';     require '../fungsi/anti_injection.php';     if (!empty(\$_GET['jabatan'])) {         \$jabatan = antiinjection(\$koneksi, \$_POST['jabatan']);         \$keterangan = antiinjection(\$koneksi, \$_POST['keterangan']);         \$query = "INSERT INTO jabatan (jabatan,keterangan) VALUES('\$jabatan','\$keterangan')";         if (mysqli_query(\$koneksi, \$query)) {             pesan('success', "Jabatan Baru Ditambahkan.");         } else {             pesan('danger', "Menambahkan Jabatan Karena: " . mysqli_error(\$koneksi));         }         header("Location: ../index.php?page=jabatan");     } } </pre> <p>Kemudian buka browser dan jalankan/refresh localhost/webprograming2023/index.php?page=jabatan . Lakukan penambahan data jabatan. Catat di sini apa yang anda amati dari penambahan kode program di atas. (soal no 4.1)</p>
5	Buat satu file dengan nama hapus.php dan dimasukan dalam folder <b>fungsi</b> . Ketikkan kode seperti di bawah ini
6	<pre> &lt;?php session_start(); if (!empty(\$_SESSION['username'])) {     require '../config/koneksi.php';     require '../fungsi/pesan_kilat.php';     require '../fungsi/anti_injection.php';     if (!empty(\$_GET['jabatan'])) {         \$id = antiinjection(\$koneksi, \$_GET['id']);         \$query = "DELETE FROM jabatan WHERE id = '\$id'";         if (mysqli_query(\$koneksi, \$query)) {             pesan('success', "Jabatan Telah Terhapus.");         } else {             pesan('danger', "Jabatan Tidak Terhapus Karena: " . mysqli_error(\$koneksi));         }         header("Location: ../index.php?page=jabatan");     } } </pre> <p>Kemudian buka browser dan jalankan/refresh localhost/webprograming2023/index.php?page=jabatan . Lakukan penghapusan data jabatan. Catat di sini apa yang anda amati dari penghapusan kode program di atas. (soal no 4.2)</p>
7	Buat satu folder <b>edit</b> di dalam folder <b>jabatan</b> dan buat file baru dengan nama index.php. Ketikkan kode seperti di bawah ini

8	<pre> &lt;div class="container-fluid"&gt;     &lt;div class="row"&gt;         &lt;?php             require 'admin/template/menu.php';             \$id = \$_GET['id'];             \$query = "SELECT * FROM jabatan WHERE id = '\$id'";             \$result = mysqli_query(\$koneksi, \$query);             \$row = mysqli_fetch_assoc(\$result);         ?&gt;          &lt;main class="col-md-9 ms-sm-auto col-lg-10 px-md-4"&gt;             &lt;div class="d-flex justify-content-between flex-wrap flex-md-nowrap align-items-center pt-3 pb-2 mb-3 border-bottom"&gt;                 &lt;h2&gt;Jabatan&lt;/h2&gt;             &lt;/div&gt;             &lt;div class="card col-md-6"&gt;                 &lt;div class="card-header"&gt;                     Form Edit Jabatan                 &lt;/div&gt;                 &lt;div class="card-body"&gt;                     &lt;form action="fungsi/edit.php?jabatan=edit" method="POST"&gt;                         &lt;input type="hidden" value="&lt;?php echo \$row['id']; ?&gt;" name="id"&gt;                         &lt;div class="mb-3"&gt;                             &lt;label for="jabatan" class="form-label"&gt;Jabatan&lt;/label&gt;                             &lt;input type="text" class="form-control" name="jabatan" value="&lt;?= \$row['jabatan']; ?&gt;"&gt;                         &lt;/div&gt;                         &lt;div class="mb-3"&gt;                             &lt;label for="keterangan" class="form-label"&gt;Keterangan&lt;/label&gt;                             &lt;textarea class="form-control" name="keterangan"&gt;&lt;?= \$row['keterangan']; ?&gt;&lt;/textarea&gt;                         &lt;/div&gt;                         &lt;button type="submit" class="btn btn-primary"&gt;&lt;i class="fa fa-floppy-o" aria-hidden="true"&gt;&lt;/i&gt; Ubah&lt;/button&gt;                         &lt;a href="index.php?page=jabatan" class="btn btn-secondary"&gt;&lt;i class="fa fa-times" aria-hidden="true"&gt;&lt;/i&gt; Batal&lt;/a&gt;                     &lt;/form&gt;                 &lt;/div&gt;             &lt;/div&gt;         &lt;/main&gt;     &lt;/div&gt; </pre>
9	Buat satu file dengan nama edit.php dan dimasukan dalam folder <b>fungsi</b> . Ketikkan kode seperti di bawah ini
10	<pre> &lt;?php session_start(); if (!empty(\$_SESSION['username'])) {     require '../config/koneksi.php';     require '../fungsi/pesan_kilat.php';     require '../fungsi/anti_injection.php';     if (!empty(\$_GET['jabatan'])) {         \$id = antiinjection(\$koneksi, \$_POST['id']);         \$jabatan = antiinjection(\$koneksi, \$_POST['jabatan']);         \$keterangan = antiinjection(\$koneksi, \$_POST['keterangan']);         \$query = "UPDATE jabatan SET jabatan = '\$jabatan', keterangan = '\$keterangan' WHERE id = '\$id'";         if (mysqli_query(\$koneksi, \$query)) {             pesan('success', "Jabatan Telah Diubah.");         } else {             pesan('danger', "Mengubah Jabatan Karena: " . mysqli_error(\$koneksi));         }         header("Location: ../index.php?page=jabatan");     } } </pre> <p>Kemudian buka browser dan jalankan/refresh <code>localhost/webprogramming2023/index.php?page=jabatan</code>. Lakukan pengubahan data jabatan. Catat di sini apa yang anda amati dari penambahan kode program di atas. <b>(soal no 4.3)</b></p>

## Praktikum 5. Folder Module – Bagian Anggota

Langkah-langkah Praktikum :

Langkah	Keterangan
1	Buat satu folder baru dengan nama <b>anggota</b> berada di dalam folder <b>module</b> dan berada di dalam folder <b>admin</b> . Kemudian buat file baru bernama <b>index.php</b> . Ketikkan kode seperti di bawah ini.
2	<pre> &lt;div class="container-fluid"&gt;     &lt;div class="row"&gt;         &lt;?php         require 'admin/template/menu.php';     ?&gt;      &lt;main class="col-md-9 ms-sm-auto col-lg-10 px-md-4"&gt;         &lt;div class="d-flex justify-content-between flex-wrap flex-md-nowrap align-items-center pt-3 pb-2 mb-3 border-bottom"&gt;             &lt;h1 class="h2"&gt;Anggota&lt;/h1&gt;         &lt;/div&gt;         &lt;div class="row"&gt;             &lt;div class="col-lg-3"&gt;                 &lt;button type="button" class="btn btn-primary" data-bs-toggle="modal" data-bs-target="#exampleModal" data-bs-whatever="@mdo"&gt;                     &lt;i class="fa fa-plus"&gt;&lt;/i&gt; Tambah Anggota&lt;/button&gt;                 &lt;/div&gt;             &lt;/div&gt;             &lt;?php if (isset(\$_SESSION['_flashdata'])) {&gt;                 echo "&lt;br&gt;";                 foreach (\$_SESSION['_flashdata'] as \$key =&gt; \$val) {                     echo get_flashdata(\$key);                 }             }             ?&gt;             &lt;div class="table-responsive small"&gt;                 &lt;table class="table table-striped"&gt;                     &lt;thead&gt;                         &lt;tr&gt;                             &lt;th scope="col"&gt;No&lt;/th&gt;                             &lt;th scope="col"&gt;Nama&lt;/th&gt;                             &lt;th scope="col"&gt;Jabatan&lt;/th&gt;                             &lt;th scope="col"&gt;Username&lt;/th&gt;                             &lt;th scope="col"&gt;Aksi&lt;/th&gt;                         &lt;/tr&gt;                     &lt;/thead&gt;                     &lt;tbody&gt;                         &lt;?php                             \$no = 1;                             \$query = "SELECT * FROM anggota a, jabatan j, user u WHERE a.jabatan_id = j.id AND a.user_id = u.id order by a.id desc";                             \$result = mysqli_query(\$koneksi, \$query);                             while (\$row = mysqli_fetch_assoc(\$result)) {                         ?&gt;                             &lt;tr&gt;                                 &lt;th scope="row"&gt;&lt;?= \$no++ ; ?&gt;&lt;/th&gt;                                 &lt;td&gt;&lt;?= \$row['nama'] ; ?&gt;&lt;/td&gt;                                 &lt;td&gt;&lt;?= \$row['jabatan'] ; ?&gt;&lt;/td&gt;                                 &lt;td&gt;&lt;?= \$row['username'] ; ?&gt;&lt;/td&gt;                                 &lt;td&gt;                                     &lt;a href="index.php?page=anggota/edit&amp;id=&lt;?php echo \$row['user_id']; ?&gt;" class="btn btn-warning btn-xs"&gt;&lt;i class="fa fa-pencil-square-o" aria-hidden="true"&gt;&lt;/i&gt; Edit&lt;/a&gt;                                     &lt;a href="fungsi/hapus.php?anggota=hapus&amp;id=&lt;?php echo \$row['user_id']; ?&gt;" onclick="javascript: return confirm('Hapus Data Jabatan ?');"&gt;&lt;?php echo \$row['user_id']; ?&gt;&lt;/a&gt; Hapus&lt;/a&gt;                                 &lt;/td&gt;                             &lt;/tr&gt;                         &lt;?php                             }                         ?&gt;                     &lt;/tbody&gt;                 &lt;/table&gt;             &lt;/div&gt;         &lt;div class="modal fade" id="exampleModal" tabindex="-1" aria-labelledby="exampleModalLabel" aria-hidden="true"&gt;             &lt;div class="modal-dialog"&gt;                 &lt;div class="modal-content"&gt;                     &lt;div class="modal-header"&gt;                         &lt;h5 class="modal-title fs-5" id="exampleModalLabel"&gt;Form Anggota&lt;/h5&gt;                         &lt;button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"&gt;&lt;/button&gt;                     &lt;/div&gt;                     &lt;form action="fungsi/tambah.php?anggota=tambah" method="POST"&gt;                         &lt;div class="modal-body"&gt;                             &lt;div class="mb-3"&gt;                                 &lt;label for="recipient-name" class="col-form-label"&gt;Nama:&lt;/label&gt;                                 &lt;input type="text" name="nama" class="form-control" id="recipient-name"&gt;                             &lt;/div&gt;                         &lt;/div&gt;                     &lt;/form&gt;                 &lt;/div&gt;             &lt;/div&gt;         &lt;/div&gt;     </pre>

```

<div class="mb-3">
    <label for="recipient-name" class="col-form-label">Jabatan:</label>
    <select class="form-select" name="jabatan" name aria-label="Default select example">
        <option selected>Pilih Jabatan</option>
        <?php
        $query2 = "SELECT * FROM jabatan order by jabatan asc";
        $result2 = mysqli_query($koneksi, $query2);
        while ($row2 = mysqli_fetch_assoc($result2)) {
            ?>
            <option value=<?= $row2['id']; ?><?= $row2['jabatan']; ?></option>
        }
    </select>
</div>
<div class="mb-3">
    <label for="recipient-name" class="col-form-label">Jenis Kelamin:</label>
    <br>
    <div class="form-check form-check-inline">
        <input class="form-check-input" type="radio" name="jenis_kelamin" value="L"
checked>
            <label class="form-check-label" for="inlineRadio1">Laki-Laki</label>
        </div>
        <div class="form-check form-check-inline">
            <input class="form-check-input" type="radio" name="jenis_kelamin" value="P">
            <label class="form-check-label" for="inlineRadio2">Perempuan</label>
        </div>
    </div>
    <div class="mb-3">
        <label for="message-text" class="col-form-label">Alamat:</label>
        <textarea class="form-control" name="alamat" id="message-text"></textarea>
    </div>
    <div class="mb-3">
        <label for="recipient-name" class="col-form-label">No Telepon:</label>
        <input type="number" name="no_telp" class="form-control" id="recipient-name">
    </div>
    <hr class="border border-primary border-3 opacity-75">
    <div class="mb-3">
        <label for="recipient-name" class="col-form-label">Username:</label>
        <input type="text" name="username" class="form-control" id="recipient-name">
    </div>
    <div class="mb-3">
        <label for="recipient-name" class="col-form-label">Password:</label>
        <input type="password" name="password" class="form-control" id="recipient-name">
    </div>
    <div class="mb-3">
        <label for="recipient-name" class="col-form-label">Level:</label>
        <select class="form-select" name="level" name aria-label="Default select example">
            <option selected>Pilih Level</option>
            <option value="user">User</option>
            <option value="admin">Admin</option>
        </select>
    </div>
    <div class="modal-footer">
        <button type="button" class="btn btn-secondary" data-bs-dismiss="modal"><i class="fa fa-times" aria-hidden="true"></i> Close</button>
        <button type="submit" class="btn btn-primary"><i class="fa fa-floppy-o" aria-hidden="true"></i> Simpan</button>
    </div>
</form>
</div>
</div>
</main>
</div>
</div>

```

3

Tambahkan isi code pada file tambah.php yang berada dalam folder **fungsi**. Ketikkan kode seperti di bawah ini

```

4 elseif (!empty($_GET['anggota'])) {
    !$username = antiinjection($koneksi, $_POST['username']);
    $password = antiinjection($koneksi, $_POST['password']);
    $level = antiinjection($koneksi, $_POST['level']);
    $jabatan = antiinjection($koneksi, $_POST['jabatan']);
    $nama = antiinjection($koneksi, $_POST['nama']);
    $jenis_kelamin = antiinjection($koneksi, $_POST['jenis_kelamin']);
    $alamat = antiinjection($koneksi, $_POST['alamat']);
    $no_telp = antiinjection($koneksi, $_POST['no_telp']);

    $salt = bin2hex(random_bytes(16));
    $combined_password = $salt . $password;
    $hashed_password = password_hash($combined_password, PASSWORD_BCRYPT);

    $query = "INSERT INTO user (username, password, salt, level) VALUES '$username', '$hashed_password', '$salt', '$level'";
    if (mysqli_query($koneksi, $query)) {
        $last_id = mysqli_insert_id($koneksi);
        $query2 = "INSERT INTO anggota (nama, jenis_kelamin, alamat, no_telp, user_id, jabatan_id) VALUES '$nama', '$jenis_kelamin', '$alamat', '$no_telp', '$last_id', '$jabatan'";
        if (mysqli_query($koneksi, $query2)) {
            pesan('success', "Anggota Baru Ditambahkan.");
        } else {
            pesan('warning', "Gagal Menambahkan Anggota Tetapi Data Login Tersimpan Karena: " . mysqli_error($koneksi));
        }
    } else {
        pesan('danger', "Menambahkan Anggota Karena: " . mysqli_error($koneksi));
    }
    header("Location: ../index.php?page=anggota");
}

```

Kemudian buka browser dan jalankan/refresh localhost/webprograming2023/index.php?page=anggota . Lakukan penambahan data anggota.

Catat di sini apa yang anda amati dari penambahan kode program di atas. (soal no 5.1)

5 Tambahkan isi code pada file hapus.php yang berada dalam folder **fungsi**. Ketikkan kode seperti di bawah ini

```

6 elseif (!empty($_GET['anggota'])) {
    $id = antiinjection($koneksi, $_GET['id']);
    $query = "DELETE FROM user WHERE id = '$id'";
    if (mysqli_query($koneksi, $query)) {
        $query2 = "DELETE FROM anggota WHERE user_id = '$id'";
        if (mysqli_query($koneksi, $query2)) {
            pesan('success', "Anggota Telah Terhapus.");
        } else {
            pesan('warning', "Data Login Terhapus Tetapi Data Anggota Tidak Terhapus Karena: " . mysqli_error($koneksi));
        }
    } else {
        pesan('danger', "Anggota Tidak Terhapus Karena: " . mysqli_error($koneksi));
    }
    header("Location: ../index.php?page=anggota");
}

```

Kemudian buka browser dan jalankan/refresh localhost/webprograming2023/index.php?page=anggota . Lakukan penghapusan data anggota.

Catat di sini apa yang anda amati dari penambahan kode program di atas. (soal no 5.2)

7 Buat satu folder **edit** di dalam folder **anggota** dan buat file baru dengan nama index.php. Ketikkan kode seperti di bawah ini

```

<div class="container-fluid">
    <div class="row">
        <?php
            require 'admin/template/menu.php';
            $id = $_GET['id'];
            $query = "SELECT * FROM anggota a, jabatan j, user u WHERE a.jabatan_id = j.id AND a.user_id = u.id AND a.user_id = '$id'";
            $result = mysqli_query($koneksi, $query);
            $row = mysqli_fetch_assoc($result);
        ?>

        <main class="col-md-9 ms-sm-auto col-lg-10 px-md-4">
            <div class="d-flex justify-content-between flex-wrap flex-md-nowrap align-items-center pt-3 pb-2 mb-3 border-bottom">
                <h1 class="h2">Anggota</h1>
            </div>
            <form action="fungsi/edit.php?anggota=edit" method="POST">
                <div class="row">
                    <div class="col-sm-6">
                        <div class="card">
                            <div class="card-header">
                                Form Edit Anggota
                            </div>
                            <div class="card-body">
                                <input type="hidden" value="<?php echo $row['user_id']; ?>" name="id">
                                <div class="mb-3">
                                    <label for="nama" class="form-label">Nama</label>
                                    <input type="text" class="form-control" name="nama" value="<?= $row['nama']; ?>">
                                </div>
                                <div class="mb-3">
                                    <label for="recipient-name" class="col-form-label">Jabatan:</label>
                                    <select class="form-select" name="jabatan" name="aria-label="Default select example">
                                        <option selected>Pilih Jabatan</option>
                                    <?php
                                        $query2 = "SELECT * FROM jabatan order by jabatan asc";
                                        $result2 = mysqli_query($koneksi, $query2);
                                        while ($row2 = mysqli_fetch_assoc($result2)) {
                                            ?>
                                            <option value="<?= $row2['id']; ?>" <?= ($row['jabatan_id'] == $row2['id']) ? 'selected' : '' ?>><?= $row2['jabatan']; ?></option>
                                    <?php
                                    }
                                    ?>
                                    </select>
                                </div>
                                <div class="mb-3">
                                    <label for="recipient-name" class="col-form-label">Jenis Kelamin:</label>
                                    <br>
                                    <div class="form-check form-check-inline">
                                        <input class="form-check-input" type="radio" name="jenis_kelamin" value="L" <?= ($row['jenis_kelamin'] === "L") ? 'checked' : '' ?>>
                                        <label class="form-check-label" for="inlineRadio1">Laki-Laki</label>
                                    </div>
                                    <div class="form-check form-check-inline">
                                        <input class="form-check-input" type="radio" name="jenis_kelamin" value="P" <?= ($row['jenis_kelamin'] === "P") ? 'checked' : '' ?>>
                                        <label class="form-check-label" for="inlineRadio2">Perempuan</label>
                                    </div>
                                </div>
                                <div class="mb-3">
                                    <label for="alamat" class="form-label">Alamat</label>
                                    <textarea class="form-control" name="alamat"><?= $row['alamat']; ?></textarea>
                                </div>
                                <div class="mb-3">
                                    <label for="no_telp" class="form-label">No Telepon</label>
                                    <input type="number" class="form-control" name="no_telp" value="<?= $row['no_telp']; ?>">
                                </div>
                            </div>
                        </div>
                    </div>
                    <div class="col-sm-6">
                        <div class="card">
                            <div class="card-header">
                                Form Edit Login Anggota
                            </div>
                            <div class="card-body">
                                <div class="mb-3">
                                    <label for="username" class="form-label">Username</label>
                                    <input type="text" class="form-control" name="username" value="<?= $row['username']; ?>">
                                </div>
                                <div class="mb-3">
                                    <label for="password" class="form-label">Password</label>
                                    <input type="password" class="form-control" name="password">
                                    <div class="form-text">Kosongi password, jika tidak ingin menggantinya.</div>
                                </div>
                            </div>
                        </div>
                    </div>
                    <br>
                    <div class="row">
                        <div class="col-sm-12">
                            <div class="card">
                                <div class="card-body" style="text-align: center;">
                                    <button type="submit" class="btn btn-primary"><i class="fa fa-floppy-o" aria-hidden="true" aria-hidden="true"></i> Ubah</button>
                                    <a href="index.php?page=anggota" class="btn btn-secondary"><i class="fa fa-times" /></a>
                                    </div>
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
            </form>
        </main>
    </div>

```

9	Tambahkan isi code pada file edit.php yang berada dalam folder <b>fungsi</b> . Ketikkan kode seperti di bawah ini
10	<pre> elseif( empty(\$_GET['anggota'])) {     (!\$user_id = antiinjection(\$koneksi, \$_POST['id']));     \$nama = antiinjection(\$koneksi, \$_POST['nama']);     \$jabatan = antiinjection(\$koneksi, \$_POST['jabatan']);     \$jenis_kelamin = antiinjection(\$koneksi, \$_POST['jenis_kelamin']);     \$alamat = antiinjection(\$koneksi, \$_POST['alamat']);     \$no_telp = antiinjection(\$koneksi, \$_POST['no_telp']);     \$username = antiinjection(\$koneksi, \$_POST['username']);     \$query_anggota = "UPDATE anggota SET nama = '\$nama',                                 jenis_kelamin = '\$jenis_kelamin',                                 alamat = '\$alamat',                                 no_telp = '\$no_telp',                                 jabatan_id = '\$jabatan'                                 WHERE user_id = '\$user_id'";     if (mysqli_query(\$koneksi, \$query_anggota)) {         if( empty(\$_POST['password'])) {             (!\$password = \$_POST['password']);             // Generate random salt             \$salt = bin2hex(random_bytes(16));             // Gabungkan salt dengan password             \$combined_password = \$salt . \$password;             // Hash password dengan salt             \$hashed_password = password_hash(\$combined_password, PASSWORD_BCRYPT);              \$query_user = "UPDATE user SET username = '\$username', password = '\$hashed_password', salt = '\$salt' WHERE id = '\$user_id'";             if (mysqli_query(\$koneksi, \$query_user)) {                 pesan('success', "Anggota Telah Diubah.");             } else {                 pesan('warning', "Data Anggota Berhasil Diubah, Tetapi Password Gagal Diubah Karena: " . mysqli_error( \$koneksi));             }         } else {             \$query_user = "UPDATE user SET username = '\$username' WHERE id = '\$user_id'";             if (mysqli_query(\$koneksi, \$query_user)) {                 pesan('success', "Anggota Telah Diubah.");             } else {                 pesan('warning', "Data Anggota Berhasil Diubah, Tetapi Username Gagal Diubah Karena: " . mysqli_error( \$koneksi));             }         }     } else {         pesan('danger', "Mengubah Anggota Karena: " . mysqli_error(\$koneksi));     }     header("Location: ../index.php?page=anggota"); } </pre>

Kemudian buka browser dan jalankan/refresh localhost/webprogramming2023/index.php?page=anggota . Lakukan pengubahan data anggota.

Catat di sini apa yang anda amati dari penambahan kode program di atas. **(soal no 5.3)**