



Topic

- Structural Dynamic Web Development Concept with Modular

Purpose

Students are expected to:

1. Students are able to create PHP hashing functions
2. Students are able to create and fill in tables of users, members, and positions
3. Students are able to create login and logout pages
4. Students are able to create the main page, users, members, and positions
5. Students are able to create code in a modular manner

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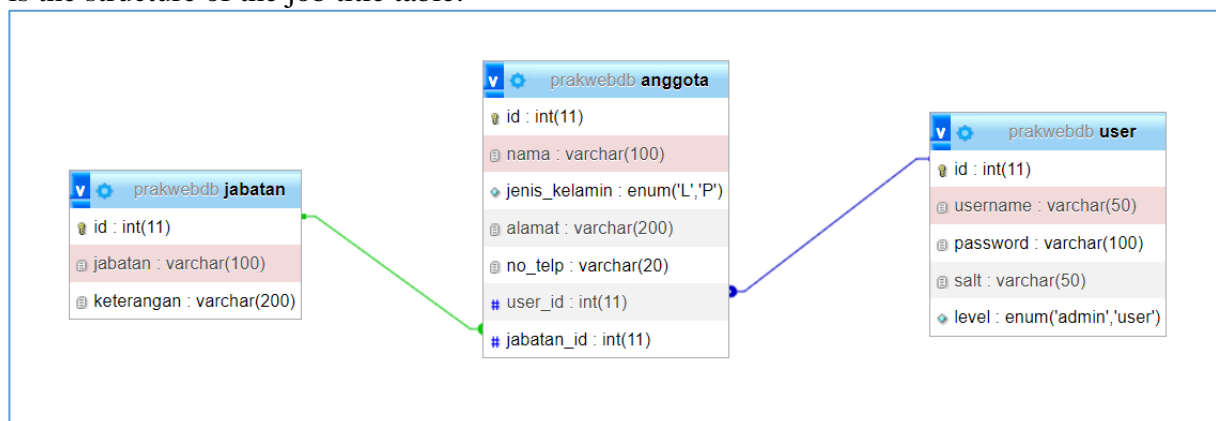
Attention

This jobsheet must be done step-by-step according to the Practical Section steps that have been given. Questions can be answered directly in the column provided using the PDF Editor.

Introduction

Database Structure

The database design that will be created consists of three tables, including **positions**, **members**, and **users**. Below is an example of a series of databases that will be created:
Below is the structure of the job title table:



Below is the structure of the **member** table:

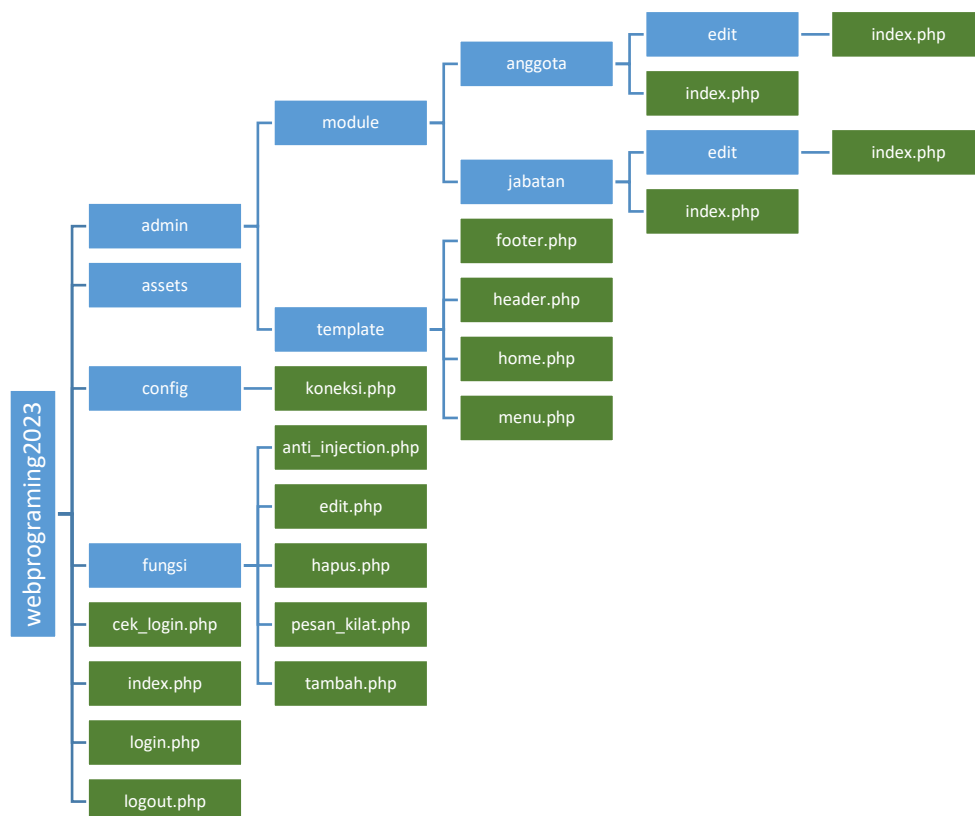
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2 jabatan	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	3 keterangan	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More

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

Below is the structure of the **user** table:

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

Folder Structure and File Contents



The diagram above is the structure of folders and files in the worksheet this time. For blue boxes in the form of folders, while green boxes are in the form of php type files. As can be seen above, it is a modular series of work. There is one folder that does not have a hierarchy, namely the assets folder, so to complete the contents of the folder, please download it at the following link

<https://drive.google.com/file/d/1uwJP5eoT9AsOVqtxCoDulhhCHGKJZCGm/view?usp=sharing>

Practical Section1. Topmost Folder and File Structure

Step	Information
1	Create multiple folders with admin , template , assets , config , and function provisions . Then create a new file with the name index.php .
2	Type into the index.php file the code below.
3	<pre> <?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	<p>Next, create a new file, which is login.php and type the code below.</p> <pre> <?php if (session_status() === PHP_SESSION_NONE) session_start(); include "fungsi/pesan_kilat.php"; ?> <!doctype html> <html lang="en" data-bs-theme="auto"> <head> <script src="assets/js/color-modes.js"></script> <meta charset="utf-8"> <meta name="viewport" content="width=device-width, initial-scale=1"> <meta name="description" content=""> <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 rel="canonical" href="https://getbootstrap.com/docs/5.3/examples/sign-in/"> <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/@docsearch/css@3"> <link rel="icon" href="assets/img/favicons/favicon.ico"> <link href="assets/dist/css/bootstrap.min.css" rel="stylesheet"> <style> .bd-placeholder-img { font-size: 1.125rem; text-align: middle; -webkit-user-select: none; -moz-user-select: none; user-select: none; } </style> </pre>

```

@media (min-width: 768px) {
  .bd-placeholder-img-lg {
    font-size: 3.5rem;
  }
}

.b-example-divider {
  width: 100%;
  height: 3rem;
  background-color: rgba(0, 0, 0, .1);
  border: solid rgba(0, 0, 0, .15);
  border-width: 1px 0;
  box-shadow: inset 0 .5em 1.5em rgba(0, 0, 0, .1), inset 0 .125em .5em rgba(0, 0, 0, .15);
}

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

.bi {
  vertical-align: -.125em;
  fill: currentColor;
}

.nav-scroller {
  position: relative;
  z-index: 2;
  height: 2.75rem;
  overflow-y: hidden;
}

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

.btn-bd-primary {
  --bd-violet-bg: #712cf9;
  --bd-violet-rgb: 112.520718, 44.062154, 249.437846;

  --bs-btn-font-weight: 600;
  --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: #6528e0;
  --bs-btn-hover-border-color: #6528e0;
  --bs-btn-focus-shadow-rgb: var(--bd-violet-rgb);
  --bs-btn-active-color: var(--bs-btn-hover-color);
  --bs-btn-active-bg: #5a23c8;
  --bs-btn-active-border-color: #5a23c8;
}

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

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

<!-- Custom styles for this template -->
<link href="assets/custom/sign-in.css" rel="stylesheet">
</head>

<body class="d-flex align-items-center py-4 bg-body-tertiary">
  <svg xmlns="http://www.w3.org/2000/svg" class="d-none">
    <symbol id="check2" viewBox="0 0 16 16">

```

```

        <path d="M13.854 3.646a.5.5 0 0 1 0 .708l-7 7a.5.5 0 0 1-.708 0l-3.5-3.5a.5.5 0 1 1 .708-.708L6.5 10.293l6.646-6.647a.5.5 0 0 1 .708 0z" />
    </symbol>
    <symbol id="circle-half" viewBox="0 0 16 16">
        <path d="M8 15A7 7 0 1 0 8 1v14zm0 1A8 8 0 1 1 8 0a8 8 0 0 1 0 16z" />
    </symbol>
    <symbol id="moon-stars-fill" viewBox="0 0 16 16">
        <path d="M6 .278a.768.768 0 0 1 .08.858 7.208 7.208 0 0 0-.878 3.46c0 4.021 3.278 7.277 7.318 7.277.527 0 1.04-.055 1.533-.16a.787.787 0 0 1 .81.316.733.733 0 0 1-.031.893A8.349 8.349 0 0 1 8.344 16C3.734 16 0 12.286 0 7.71 0 4.266 2.114 1.312 5.124.06A.752.752 0 0 1 6 .278z" />
        <path d="M10.794 3.148a.217.217 0 0 1 .412 0l.387 1.162c.173.518.579.924 1.097 1.097l1.162.387a.217.217 0 0 1 .412l-1.162.387a1.734 1.734 0 0 0-1.097 1.097l-.387 1.162a.217.217 0 0 1-.412 0l-.387-1.162A1.734 1.734 0 0 0 9.31 6.593l-1.162-.387a.217.217 0 0 1-.412l1.162-.387a1.734 1.734 0 0 0 1.097-1.097l.387-1.162zM13.863.099a.145.145 0 0 1 .274 0l.258.774c.115.346.386.617.732.732l.774.258a.145.145 0 0 1 .274 0l-.258-.774a1.156 1.156 0 0 0-.732-.732l-.774-.258a.145.145 0 0 1-.274-.774-.258c.346-.115.617-.386.732-.732l13.863.1z" />
    </symbol>
    <symbol id="sun-fill" viewBox="0 0 16 16">
        <path d="M8 12a4 4 0 1 0 0 0-8 4 4 0 0 0 8zm8 0a.5.5 0 0 1 .5.5v2a.5.5 0 0 1-1 0v-2a.5.5 0 0 1 1 0zm0 13a.5.5 0 0 1 .5.5v2a.5.5 0 0 1-1 0v-2a.5.5 0 0 1 1 0zm8-5a.5.5 0 0 1-.5.5h-2a.5.5 0 0 1 0-1h2a.5.5 0 0 1 .5.5zM3 8a.5.5 0 0 1-.5.5h-2a.5.5 0 0 1 0-1h2a.5.5 0 0 1 .5.5zM10.657 5.657a.5.5 0 0 1 0 .707l-1.414 1.414a.5.5 0 0 1-.707-.707l1.414-1.414a.5.5 0 0 1 .707 0zm-9.193 9.193a.5.5 0 0 1 0 .707l-1.414 1.414a.5.5 0 0 1-.707-.707l1.414-1.414a.5.5 0 0 1 .707 0zm9.193 2.121a.5.5 0 0 1-.707 0l-1.414-1.414a.5.5 0 0 1 .707-.707l1.414 1.414a.5.5 0 0 1 .707zM4.464 4.464a.5.5 0 0 1-.707 0l-1.414-1.414a.5.5 0 0 1 .707-.707l1.414 1.414a.5.5 0 0 1 .708z" />
    </symbol>
</svg>

<div class="dropdown position-fixed bottom-0 end-0 mb-3 me-3 bd-mode-toggle">
    <button class="btn btn-bd-primary py-2 dropdown-toggle d-flex align-items-center" id="bd-theme" type="button" aria-expanded="false" data-bs-toggle="dropdown" aria-label="Toggle theme (auto)">
        <svg class="bi my-1 theme-icon-active" width="1em" height="1em">
            <use href="#circle-half"></use>
        </svg>
        <span class="visually-hidden" id="bd-theme-text">Toggle theme</span>
    </button>
    <ul class="dropdown-menu dropdown-menu-end shadow" aria-labelledby="bd-theme-text">
        <li>
            <button type="button" class="dropdown-item d-flex align-items-center" data-bs-theme-value="light" aria-pressed="false">
                <svg class="bi me-2 opacity-50 theme-icon" width="1em" height="1em">
                    <use href="#sun-fill"></use>
                </svg>
                Light
                <svg class="bi ms-auto d-none" width="1em" height="1em">
                    <use href="#check2"></use>
                </svg>
            </button>
        </li>
        <li>
            <button type="button" class="dropdown-item d-flex align-items-center" data-bs-theme-value="dark" aria-pressed="false">
                <svg class="bi me-2 opacity-50 theme-icon" width="1em" height="1em">
                    <use href="#moon-stars-fill"></use>
                </svg>
                Dark
                <svg class="bi ms-auto d-none" width="1em" height="1em">
                    <use href="#check2"></use>
                </svg>
            </button>
        </li>
        <li>
            <button type="button" class="dropdown-item d-flex align-items-center active" data-bs-theme-value="auto" aria-pressed="true">
                <svg class="bi me-2 opacity-50 theme-icon" width="1em" height="1em">
                    <use href="#circle-half"></use>
                </svg>
                Auto
                <svg class="bi ms-auto d-none" width="1em" height="1em">
                    <use href="#check2"></use>
                </svg>
            </button>
        </li>
    </ul>
</div>

```

```

<main class="form-signin w-100 m-auto">
  <form action="cek_login.php" method="post">
    
    <h1 class="h3 mb-3 fw-normal">Lakukan Login</h1>
    <?php if (isset($_SESSION['_flashdata'])) {
      foreach ($_SESSION['_flashdata'] as $key => $val) {
        echo get_flashdata($key);
      }
    }
    ?>
    <div class="form-floating">
      <input type="text" class="form-control" name="username" placeholder="Username"
required>
      <label>Username</label>
    </div>
    <div class="form-floating">
      <input type="password" class="form-control" name="password" placeholder="Password"
required>
      <label>Password</label>
    </div>

    <button class="btn btn-primary w-100 py-2" type="submit">Masuk</button>
    <p class="mt-5 mb-3 text-body-secondary">&copy; 2017-2023</p>
  </form>
</main>
<script src="assets/dist/js/bootstrap.bundle.min.js"></script>

</body>

</html>

```

If you are tired of typing it, you can download it at

"<https://github.com/twbs/bootstrap/releases/download/v5.3.2/bootstrap-5.3.2-examples.zip>"

And look for sign-in views

Next, create a new file, which is `cek_login.php` and type the code below.

```

<?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 && $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");
}

```

	<p>What do you understand from the code above. Record below your understanding. (Question No 1.1)</p> <ul style="list-style-type: none"> - This setup features a session-based signup/login system with end-user feedback, organized file structure, input sanitization, and secure password handling using password_hash and password_verify for basic security.
6	<p>Next, create a new file, which is <code>logout.php</code> and type the code below.</p> <pre><?php if (session_status() === PHP_SESSION_NONE) session_start(); session_destroy(); header('location:index.php');</pre>
7	<p>Next, create a new folder, namely config and a new file, namely <code>config/koneksi.php</code> and type the code below.</p> <pre><?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>

Practical Section2. Function Folder

Step	Information
1	Create one new folder with name fungsi and a new file named fungsi/anti_injection.php . Type the code as below.
2	<pre><?php function antiinjection(\$koneksi, \$data) { \$filter_sql = mysqli_real_escape_string(\$koneksi, stripslashes(strip_tags(htmlspecialchars(\$data, ENT_QUOTES)))); return \$filter_sql; }</pre>
3	<p>What do you understand from the code above. Record below your understanding. (Question No 2.1)</p> <ul style="list-style-type: none"> The `antiinjection` function in `fungsi/anti_injection.php` sanitizes user input to prevent SQL injection and XSS attacks. It removes HTML tags, converts special characters, strips backslashes, and uses `mysqli_real_escape_string()` to escape harmful SQL characters, enhancing security in database operations.
4	<p>Create a new file on the fungsi folder with the name fungsi/pesan_kilat.php. Type the code as below.</p> <pre><?php function set_flashdata(\$key = "", \$value = "") { if empty(\$key) && !empty(\$value) { (!\$_SESSION['_flashdata'][\$key] = \$value; return true; } return false; } function get_flashdata(\$key = "") { if empty(\$key) && isset(\$_SESSION['_flashdata'][\$key])) { (!\$data = \$_SESSION['_flashdata'][\$key]; unset(\$_SESSION['_flashdata'][\$key]); return \$data; } else { echo "<script> alert(' Flash Message \"{\$key}\" is not defined. ');</script>"; } } function pesan(\$key = "", \$pesan = "") { if (\$key == "info") { set_flashdata('info', "<div class='alert alert-primary alert-dismissible fade show' role='alert'> Info! {\$pesan} <button type='button' class='btn-close' data-bs-dismiss='alert' aria-label='Close'></button> </div>"); } elseif (\$key == "success") { set_flashdata('success', "<div class='alert alert-success alert-dismissible fade show' role='alert'> Berhasil! {\$pesan} <button type='button' class='btn-close' data-bs-dismiss='alert' aria-label='Close'></button> </div>"); } elseif (\$key == "danger") { set_flashdata('danger', "<div class='alert alert-danger alert-dismissible fade show' role='alert'> Gagal! {\$pesan} <button type='button' class='btn-close' data-bs-dismiss='alert' aria-label='Close'></button> </div>"); } elseif (\$key == "warning") { set_flashdata('warning', "<div class='alert alert-warning alert-dismissible fade show' role='alert'> Peringatan! {\$pesan} <button type='button' class='btn-close' data-bs-dismiss='alert' aria-label='Close'></button> </div>"); } }</pre>
5	<p>What do you understand from the code above. Record below your understanding. (Question No 2.2)</p> <ul style="list-style-type: none"> The code in fungsi/pesan_kilat.php manages one-time flash messages using sessions, with set_flashdata to set messages and get_flashdata to retrieve and remove them. The

	pesan function enables different Bootstrap-styled alerts (info, success, error, warning) for user feedback, enhancing the experience after actions like login or data submission.
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Practical Section3. Template Folders

Step	Information
1	<p>Create a new folder template inside admin folder and a new file named template/header.php. Type the code as below.</p> <pre> <!doctype html> <html lang="en" data-bs-theme="auto"> <head> <script src="assets/js/color-modes.js"></script> <meta charset="utf-8"> <meta name="viewport" content="width=device-width, initial-scale=1"> <meta name="description" content=""> <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/font-awesome/css/font-awesome.css" rel="stylesheet" /> <link rel="canonical" href="https://getbootstrap.com/docs/5.3/examples/dashboard/"> <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/@docsearch/css@3"> <link href="assets/dist/css/bootstrap.min.css" rel="stylesheet"> <style> .bd-placeholder-img { font-size: 1.125rem; text-align: middle; -webkit-user-select: none; -moz-user-select: none; user-select: none; } @media (min-width: 768px) { .bd-placeholder-img-lg { font-size: 3.5rem; } } .b-example-divider { width: 100%; height: 3rem; background-color: rgba(0, 0, 0, .1); border: solid rgba(0, 0, 0, .15); border-width: 1px 0; box-shadow: inset 0 .5em 1.5em rgba(0, 0, 0, .1), inset 0 .125em .5em rgba(0, 0, 0, .15); } .b-example-vr { flex-shrink: 0; width: 1.5rem; height: 100vh; } .bi { vertical-align: -.125em; fill: currentColor; } .nav-scroller { position: relative; z-index: 2; height: 2.75rem; overflow-y: hidden; } .nav-scroller .nav { display: flex; flex-wrap: nowrap; padding-bottom: 1rem; margin-top: -1px; overflow-x: auto; text-align: center; </pre>


```

<ul class="dropdown-menu dropdown-menu-end shadow" aria-labelledby="bd-theme-text">
  <li>
    <button type="button" class="dropdown-item d-flex align-items-center" data-bs-theme-
value="light" aria-pressed="false">
      <svg class="bi me-2 opacity-50 theme-icon" width="1em" height="1em">
        <use href="#sun-fill"></use>
      </svg>
      Light
      <svg class="bi ms-auto d-none" width="1em" height="1em">
        <use href="#check2"></use>
      </svg>
    </button>
  </li>
  <li>
    <button type="button" class="dropdown-item d-flex align-items-center" data-bs-theme-
value="dark" aria-pressed="false">
      <svg class="bi me-2 opacity-50 theme-icon" width="1em" height="1em">
        <use href="#moon-stars-fill"></use>
      </svg>
      Dark
      <svg class="bi ms-auto d-none" width="1em" height="1em">
        <use href="#check2"></use>
      </svg>
    </button>
  </li>
  <li>
    <button type="button" class="dropdown-item d-flex align-items-center active" data-bs-
theme-value="auto" aria-pressed="true">
      <svg class="bi me-2 opacity-50 theme-icon" width="1em" height="1em">
        <use href="#circle-half"></use>
      </svg>
      Auto
      <svg class="bi ms-auto d-none" width="1em" height="1em">
        <use href="#check2"></use>
      </svg>
    </button>
  </li>
</ul>
</div>

<svg xmlns="http://www.w3.org/2000/svg" class="d-none">
  <symbol id="calendar3" viewBox="0 0 16 16">
    <path d="M14 0H2a2 2 0 0 0-2 2v12a2 2 0 0 0 2 2h12a2 2 0 0 0 2-2V2a2 2 0 0 0-2-2zM1
3.857C1 3.84 1.448 3 2 3h12c.552 0 1 .384 1 .857v10.286c0 .473-.448.857-1 .857H2c-.552 0-1 -.384-1-
.857V3.857z" />
    <path d="M6.5 7a1 1 0 1 0 0-2 1 1 0 0 0 2zm3 0a1 1 0 1 0 0-2 1 1 0 0 0 2zm3 0a1 1 0 1
0 0-2 1 1 0 0 0 2zm-9 3a1 1 0 1 0 0-2 1 1 0 0 0 2zm3 0a1 1 0 1 0 0-2 1 1 0 0 0 2zm3 0a1 1 0 1 0
0-2 1 1 0 0 0 2zm3 0a1 1 0 1 0 0-2 1 1 0 0 0 2zm-9 3a1 1 0 1 0 0-2 1 1 0 0 0 2zm3 0a1 1 0 1 0 0-
2 1 1 0 0 0 2zm3 0a1 1 0 1 0 0-2 1 1 0 0 0 2z" />
  </symbol>
  <symbol id="cart" viewBox="0 0 16 16">
    <path d="M0 1.5A.5.5 0 0 1 .5 1H2a.5.5 0 0 1 .485.379L2.89 3H14.5a.5.5 0 0 1 .49.598l-1
5a.5.5 0 0 1-.465.401l-9.397.472L4.415 11H13a.5.5 0 0 1 1 1H4a.5.5 0 0 1-.491-.408L2.01 3.607 1.61
2H.5a.5.5 0 0 1-.5-.5zM3.102 41.84 4.479 9.144-.459L13.89 4H3.102zM5 12a2 2 0 1 0 4 2 2 0 0 0 0-4zm7
0a2 2 0 1 0 4 2 2 0 0 0 0-4zm-7 1a1 1 0 1 0 2 1 1 0 0 1 0-2zm7 0a1 1 0 1 0 2 1 1 0 0 1 0-2z" />
  </symbol>
  <symbol id="chevron-right" viewBox="0 0 16 16">
    <path fill-rule="evenodd" d="M4.646 1.646a.5.5 0 0 1 .708 0l6 6a.5.5 0 0 1 0 .708l-6
6a.5.5 0 0 1-.708-.708L10.293 8 4.646 2.354a.5.5 0 0 1 0-.708z" />
  </symbol>
  <symbol id="door-closed" viewBox="0 0 16 16">
    <path d="M3 2a1 1 0 0 1 1-1h8a1 1 0 0 1 1 1v13h1.5a.5.5 0 0 1 0 1h-13a.5.5 0 0 1 0-
1H3V2zm1 13h8V2H4v13z" />
    <path d="M9 9a1 1 0 1 0 2 0 1 1 0 0 0-2 0z" />
  </symbol>
  <symbol id="file-earmark" viewBox="0 0 16 16">
    <path d="M14 4.5V14a2 2 0 0 1-2 2H4a2 2 0 0 1-2-2V2a2 2 0 0 1 2-2h5.5L14 4.5zm-3 0A1.5 1.5
0 0 1 9.5 3V14a1 1 0 0 0-1 1v12a1 1 0 0 0 1 1h8a1 1 0 0 0 1-1V4.5h-2z" />
  </symbol>
  <symbol id="file-earmark-text" viewBox="0 0 16 16">
    <path d="M5.5 7a.5.5 0 0 0 1h5a.5.5 0 0 0 0-1h-5zM5 9.5a.5.5 0 0 1 .5-.5h5a.5.5 0 0 1 0
1h-5a.5.5 0 0 1-.5-.5zM0 2a.5.5 0 0 1 .5-.5h2a.5.5 0 0 1 0 1h-2a.5.5 0 0 1-.5-.5z" />
    <path d="M9.5 0H4a2 2 0 0 0-2 2v12a2 2 0 0 0 2 2h8a2 2 0 0 0 2-2V4.5L9.5 0zm0 1v2A1.5 1.5
0 0 0 11 4.5h2V14a1 1 0 0 1-1 1H4a1 1 0 0 1-1-1V2a1 1 0 0 1 1-1h5.5z" />
  </symbol>
  <symbol id="gear-wide-connected" viewBox="0 0 16 16">

```


	<pre> </symbol> </svg> <header class="navbar sticky-top bg-dark flex-md-nowrap p-0 shadow" data-bs-theme="dark"> Aplikasi Kantor Siapa <ul class="navbar-nav flex-row d-md-none"> <li class="nav-item text-nowrap"> <button class="nav-link px-3 text-white" type="button" data-bs-toggle="collapse" data- bs-target="#navbarSearch" aria-controls="navbarSearch" aria-expanded="false" aria-label="Toggle search"> <svg class="bi"> <use xlink:href="#search" /> </svg> </button> <li class="nav-item text-nowrap"> <button class="nav-link px-3 text-white" type="button" data-bs-toggle="offcanvas" data-bs-target="#sidebarMenu" aria-controls="sidebarMenu" aria-expanded="false" aria-label="Toggle navigation"> <svg class="bi"> <use xlink:href="#list" /> </svg> </button> <div id="navbarSearch" class="navbar-search w-100 collapse"> <input class="form-control w-100 rounded-0 border-0" type="text" placeholder="Search" aria-label="Search"> </div> </header> </pre>
2	<p>If you are tired of typing it, you can download it at "https://github.com/twbs/bootstrap/releases/download/v5.3.2/bootstrap-5.3.2-examples.zip" And look for the dashboard view</p>
3	<p>Create a new file named template/footer.php inside the template folder. Type the code below</p> <pre> <script src="assets/dist/js/bootstrap.bundle.min.js"></script> <script src="https://cdn.jsdelivr.net/npm/chart.js@4.3.2/dist/chart.umd.js" integrity="sha384-eI7PSr3L1XLISH8JdDII5YN/ njoSsxfrkCTnJrzXt+ENP5MOVbxD+l6sEG4zoLp" crossorigin="anonymous"></script> <script src="assets/custom/dashboard.js"></script> </body> </html> </pre>
4	<p>Create a new file named template/menu.php inside the template folder. Type the code below</p> <pre> <div class="sidebar border border-right col-md-3 col-lg-2 p-0 bg-body-tertiary"> <div class="offcanvas-md offcanvas-end bg-body-tertiary" tabindex="-1" id="sidebarMenu" aria- labelledby="sidebarMenuLabel"> <div class="offcanvas-header"> <h5 class="offcanvas-title" id="sidebarMenuLabel">Aplikasi Kantor Siapa</h5> <button type="button" class="btn-close" data-bs-dismiss="offcanvas" data-bs- target="#sidebarMenu" aria-label="Close"></button> </div> <div class="offcanvas-body d-md-flex flex-column p-0 pt-lg-3 overflow-y-auto"> <ul class="nav flex-column"> <li class="nav-item"> <svg class="bi"> <use xlink:href="#house-fill" /> </svg> Dashboard <li class="nav-item"> </pre>

```

        <svg class="bi">
          <use xlink:href="#people" />
        </svg>
        Anggota
      </a>
    </li>
    <li class="nav-item">
      <a class="nav-link d-flex align-items-center gap-2" href="index.php?page=jabatan">
        <svg class="bi">
          <use xlink:href="#puzzle" />
        </svg>
        Jabatan
      </a>
    </li>
  </ul>

  <hr class="my-3">

  <ul class="nav flex-column mb-auto">
    <li class="nav-item">
      <a class="nav-link d-flex align-items-center gap-2" href="#">
        <svg class="bi">
          <use xlink:href="#gear-wide-connected" />
        </svg>
        Settings
      </a>
    </li>
    <li class="nav-item">
      <a class="nav-link d-flex align-items-center gap-2" href="logout.php">
        <svg class="bi">
          <use xlink:href="#door-closed" />
        </svg>
        Log out
      </a>
    </li>
  </ul>
</div>
</div>
</div>

```

5

Create a new file named `template/home.php`. Type the code below

	<pre> <div class="container-fluid"> <div class="row"> <?php include "menu.php"; \$query_anggota = "SELECT count(id) as jml FROM anggota "; \$result_anggota = mysqli_query(\$koneksi, \$query_anggota); \$row_anggota = mysqli_fetch_assoc(\$result_anggota); \$query_jabatan = "SELECT count(id) as jml FROM jabatan "; \$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> <i class="fa fa-users" aria-hidden= "true"></i> Kelola </div> </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> <i class="fa fa-puzzle-piece" aria-hidden="true"></i> Kelola </div> </div> </div> </div> </main> </div> </div> </pre>
6	<p>Fill in the user table with the conditions username: admin password: \$2y\$10\$KVL240kvYhk1htnB0BvXL.0SInfs2QcJ/LvzzR7IPhkGfS3GBew00 salt: 8ad2e053c563c20a803cf4698d95bf9d level: admin</p> <p>Then open a browser and run/refresh localhost/dasarWeb/JS11/ To log in, use username: admin and password: admin. Record here what you observe from Practical Section1 to 3. (Question No. 3.1)</p> <ul style="list-style-type: none"> - A secure, beginner-friendly PHP web application with user authentication, an admin dashboard, modular components, and a well-organized file structure enhanced by Bootstrap for a clean UI.

Practical Section4. Module Folder – Job Title Section

Practical SectionSteps:

Step	Information
1	Create a new folder “ <code>module/jabatan</code> ” in the <code>admin</code> folder. Then create a new file named <code>module/jabatan/index.php</code> . Type the code as below.
2	<pre> <div class="container-fluid"> <div class="row"> <?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"> <h1 class="h2">Jabatan</h1> </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 "
"; 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 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 </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"> </pre>

	<pre> <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> <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> </pre>
3	Create a single file with fungsi/tambah.php inside JS11 folder. Type the code as below
4	<pre> <?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', "Menabahkan Jabatan Karena: " . mysqli_error(\$koneksi)); } header("Location: ../index.php?page=jabatan"); } } </pre> <p>Then open a browser and run/refresh localhost/dasarWeb/JS11/ index.php?page=job . Add job title data.</p> <p>Note here what you observe from the addition of the program code above. (Question No. 4.1)</p> <ul style="list-style-type: none"> - Adding job title data works, with successful insertions confirmed by flash messages.
5	Create a single file with the name fungsi/hapus.php and put it in the fungsi folder. Type the code as below

6	<pre> <?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>Then open a browser and run/refresh localhost/dasarWeb/JS11/index.php?page=job . Delete position data.</p> <p>Note here what you observe from the addition of the program code above. (Question No. 4.2)</p> <ul style="list-style-type: none"> - Deleting position data is effective, with confirmation prompts and success messages enhancing user experience.
7	<p>Create an edit folder inside the department folder and create a new file with name admin/module/jabatan/edit/index.php. Type the code as below</p>
8	<pre> <div class="container-fluid"> <div class="row"> <?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); ?> <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">Jabatan</h1> </div> <div class="card col-md-6"> <div class="card-header"> Form Edit Jabatan </div> <div class="card-body"> <form action="fungsi/edit.php?jabatan=edit" method="POST"> <input type="hidden" value="<?php echo \$row['id']; ?>" name="id"> <div class="mb-3"> <label for="jabatan" class="form-label">Jabatan</label> <input type="text" class="form-control" name="jabatan" value="<? \$row['jabatan']; ?>"> </div> <div class="mb-3"> <label for="keterangan" class="form-label">Keterangan</label> <textarea class="form-control" name="keterangan"><? \$row['keterangan']; ?></textarea> </div> <button type="submit" class="btn btn-primary"><i class="fa fa-floppy-o" aria-hidden="true"></i> Ubah</button> <i class="fa fa-times" aria-hidden= "true"></i> Batal </form> </div> </div> </main> </div> </div> </pre>
9	<p>Create a single file with the fungsi/edit.php name and put it in the fungsi folder. Type the code as below</p>

10

```
<?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");
    }
}
```

Then open a browser and run/refresh <localhost/dasarWeb/JS11/index.php?page=job> . Change your position data.

Note here what you observe from the addition of the program code above. (Question No. 4.3)

- Editing position data is seamless; pre-filled forms and success messages confirm updates.

Practical Section5. Module Folder – Members Section

Practical SectionSteps:

Step	Information
1	Create a new folder Anggota inside the admin/module folder and inside the admin folder. Then create a new file named admin/module/anggota/index.php . Type the code as below.
2	<pre> <div class="container-fluid"> <div class="row"> <?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"> <h1 class="h2">Anggota</h1> </div> <div class="row"> <div class="col-lg-3"> <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 Anggota</button> </div> </div> <?php if (isset(\$_SESSION['_flashdata'])) { echo "
"; 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">>Nama</th> <th scope="col">Jabatan</th> <th scope="col">Username</th> <th scope="col">Aksi</th> </tr> </thead> <tbody> <?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)) { ?> <tr> <th scope="row"><?=\$no++; ?></th> <td><?=\$row['nama']; ?></td> <td><?=\$row['jabatan']; ?></td> <td><?=\$row['username']; ?></td> <td> <a href="index.php?page=anggota/edit&id=<?php echo \$row['user_id']; ?>" class="btn btn-warning btn-xs"><i class="fa fa-pencil-square-o" aria-hidden="true"></i> Edit <a href="fungsi/hapus.php?anggota=hapus&id=<?php echo \$row['user_id']; ?>" onclick="javascript:confirm('Hapus Data Jabatan ?');"><i class="fa fa-trash-o" aria-hidden="true"></i> Hapus </td> </tr> <?php } ?> </tbody> </table> </div> </div> </pre>

```

<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 Anggota</h1>
        <button type="button" class="btn-close" data-bs-dismiss="modal" aria-
label="Close"></button>
      </div>
      <form action="fungsi/tambah.php?anggota=tambah" method="POST">
        <div class="modal-body">
          <div class="mb-3">
            <label for="recipient-name" class="col-form-label">Nama:</label>
            <input type="text" name="nama" class="form-control"
id="recipient-name">
          </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']; ?>"><?=$
$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" 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">

```

	<pre> <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> <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> </div> </main> </div> </div> </div> </pre>
3	<p>Add the code content to the <code>fungsi/tambah.php</code> file located in the fungsi folder. Type the code as below</p>
4	<pre> 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"); } </pre> <p>Then open a browser and run/refresh <code>localhost/dasarWeb/JS11/index.php?page=member</code>. Add member data.</p> <p>Note here what you observe from the addition of the program code above. (Question No 5.1)</p> <ul style="list-style-type: none"> The form for adding members displays required fields, provides feedback messages on submission, and secures data with input sanitization and password hashing, preventing SQL injection and securing passwords.
5	<p>Add the code content to the <code>hapus.php</code> file in the function folder. Type the code as below</p>

6	<pre> 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"); } </pre> <p>Then open a browser and run/refresh localhost/dasarWeb/JS11/index.php?page=member. Delete member data.</p> <p>Note here what you observe from the addition of the program code above. (Question No. 5.2)</p> <ul style="list-style-type: none"> - The deletion feature includes a confirmation prompt, removes data from both user and anggota tables, and provides feedback on success or failure, preventing silent errors.
7	<p>Create one edit folder inside anggota folder and create a new file with name admin/module/anggota/edit/index.php. Type the code as below</p>
8	<pre> <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"> </pre>


```

        <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 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>
    </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"></i> Ubah</button>
                    <a href="index.php?page=anggota" class="btn btn-secondary"><i
class="fa fa-times" aria-hidden="true"></i> Batal</a>
                </div>
            </div>
        </div>
    </div>
    </form>
</main>
</div>
</div>

```

9

Add the code content to the `fungsi/edit.php` file located in the **fungsi** folder. Type the code as below

10

```
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");
}
```

Then open a browser and run/refresh <localhost/dasarWeb/JS11/index.php?page=member> . Change member data.

Note here what you observe from the addition of the program code above. (Question No 5.3)

- The edit form pre-fills with existing data, allows optional password updates, and displays feedback upon submission. Input sanitization and password security are maintained.