Department of Information Technology, State Polytechnic of Malang

Jobsheet-10: PHP – CRUD & Bootstrap

Web Design and Programming Courses

Web Design and Programming Teaching Team

October 2024

Topic

- CRUD concepts with PHP and Bootstrap

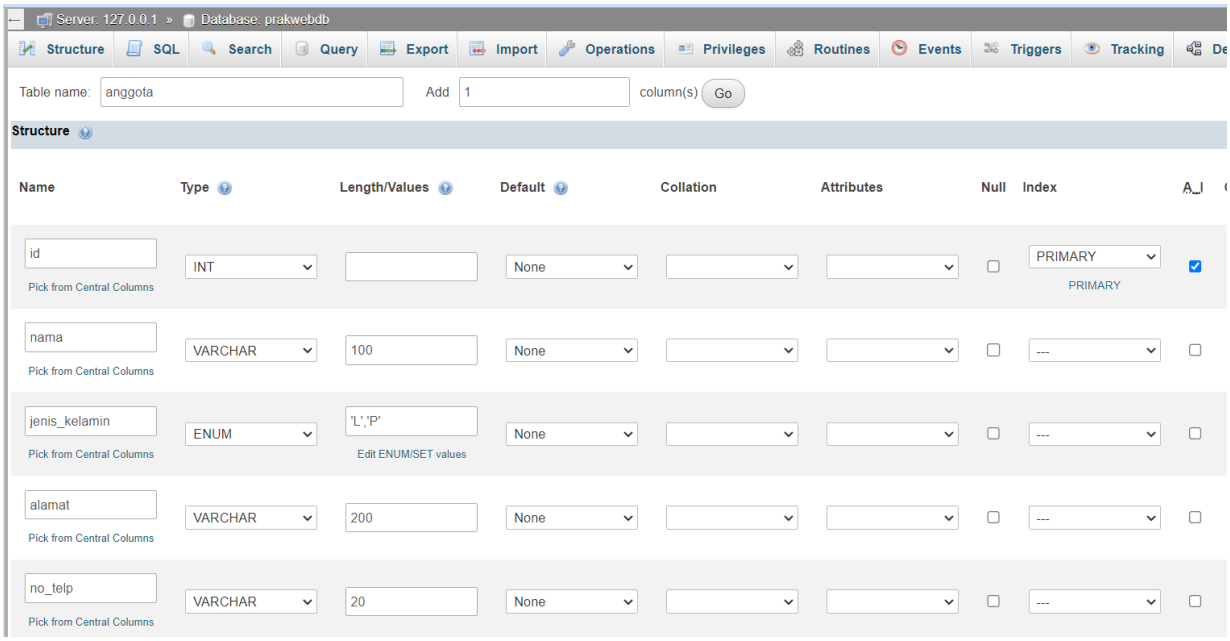
Objectives

Students are expected to:

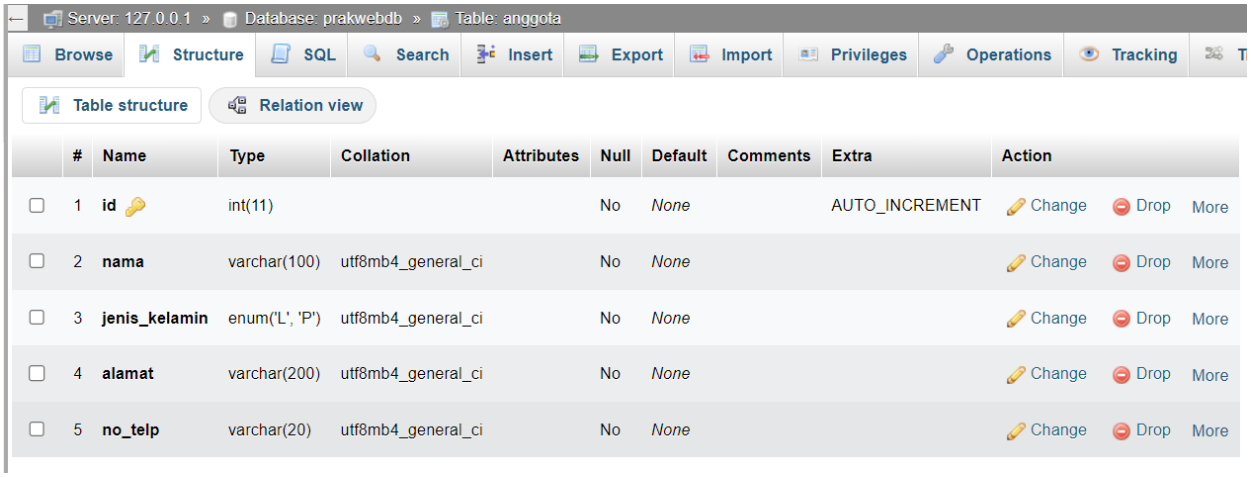
1. Students are able to create CRUD forms using PHP
2. Students are able to create CRUD forms using Bootsrtap
3. Students are able to create CRUD forms using Jquery and Ajax

Creating a Member (Anggota) Table

The first step in creating a CRUD feature is to create a "anggota" table. In this practicum, we will use *a database*. Create *a database* on MySQL named "prakwebdb". Next, the thing that must be done is to create *a "anggota"* table. The *"anggota" table* consists of *nama, jenis_kelamin, alamat,* and *no_telp*. The following are the conditions made in the *"anggota" table*:



If successful, it will appear as below, make sure *jenis_kelamin* is of the enum type. An enum is a type of data in a Mysql *database* that contains predefined string values. An enum column can only contain one of several specified string values .

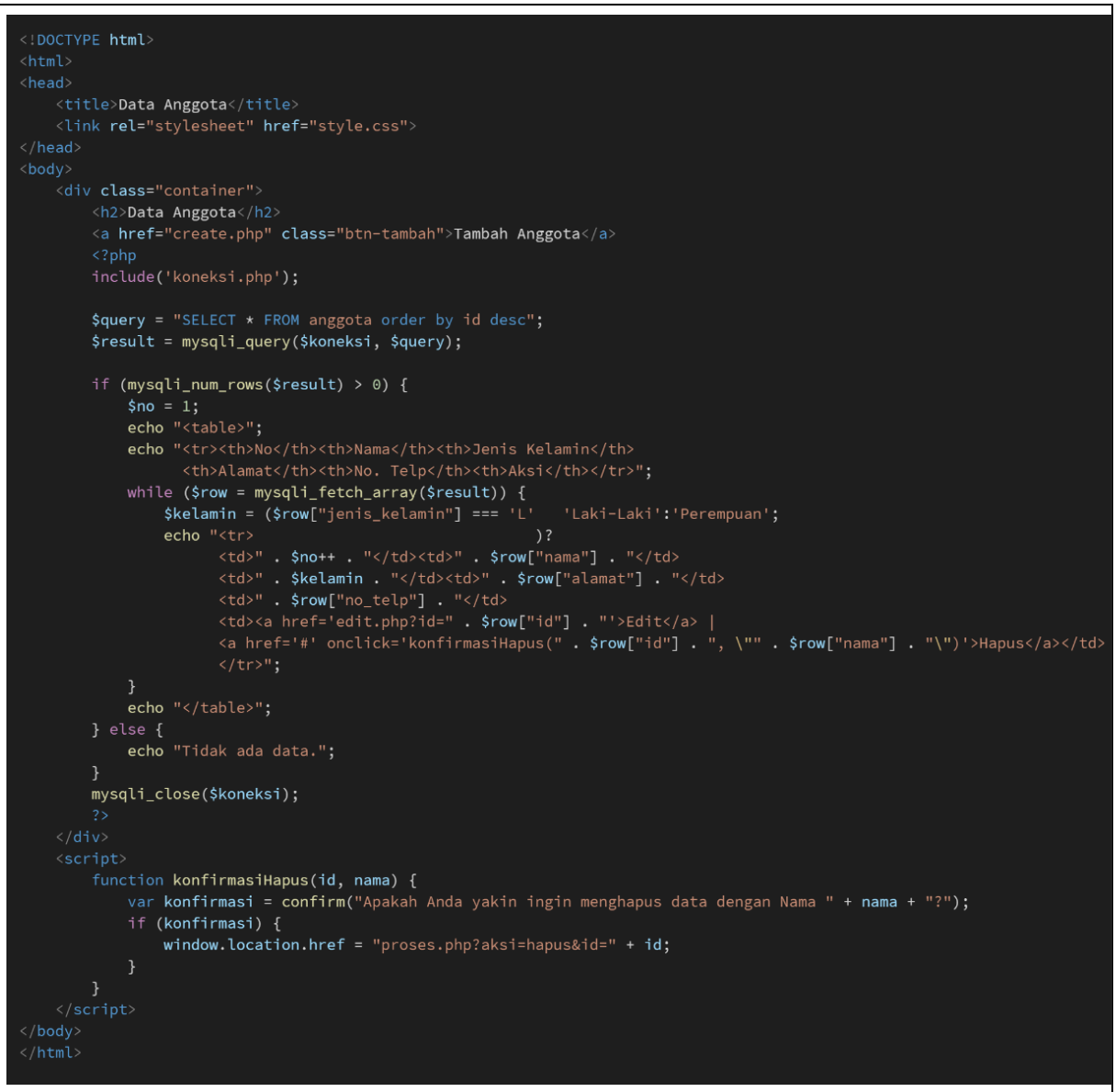


Practical Section 1. CRUD - Read

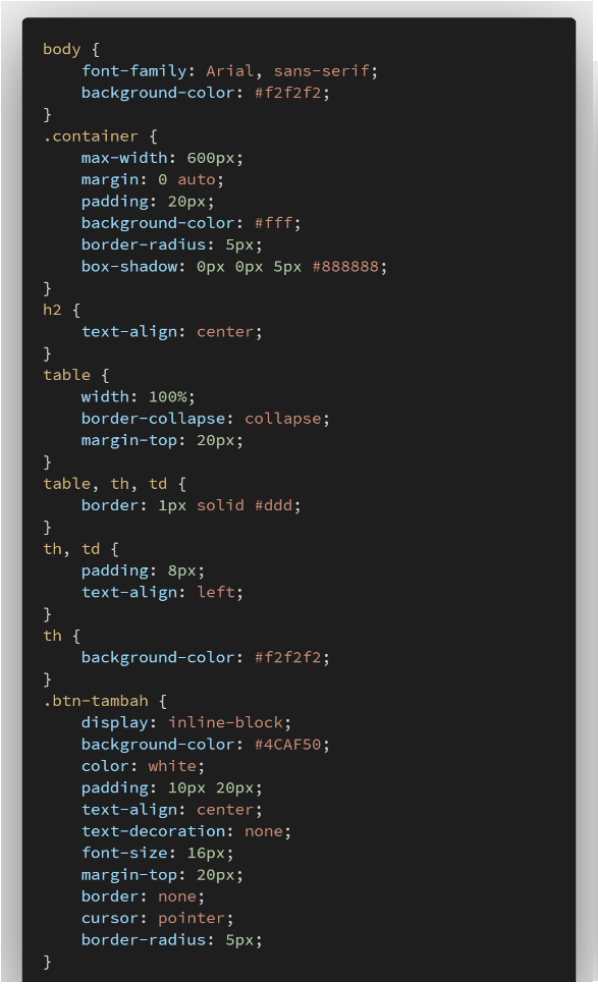
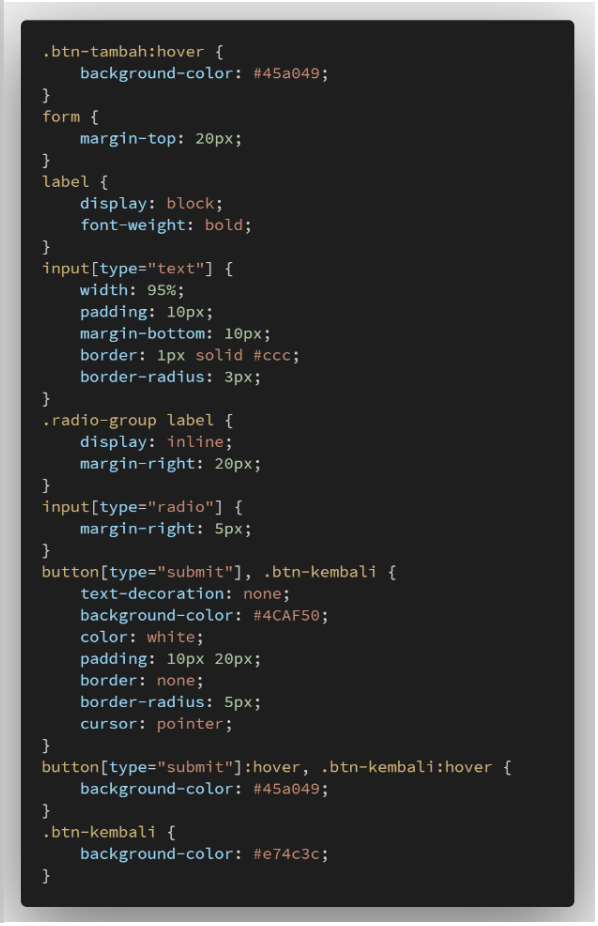
Step	Information
1	Create a new file in the `week10` directory, naming it `koneksi.php`.
2	Type into the `koneksi.php` file the code below.

3	<?php
	// Koneksi ke database
	$koneksi = mysqli_connect("localhost", "root", "", "prakwebdb");
	
	// Periksa koneksi
	if (mysqli_connect_errno()) {
	    die("Koneksi database gagal: " . mysqli_connect_error());
	}

4	Create a new file in the `week10` directory, naming it `index.php`.
5	Type into the `index.php` file the code below.

	
6	Create a new file in the `week10` directory, naming it `style.css`.
7	Type into the `style.css` file the code below.

```php
<!DOCTYPE html>
<html>
<head>
    <title>Data Anggota</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <div class="container">
        <h2>Data Anggota</h2>
        <a href="create.php" class="btn-tambah">Tambah Anggota</a>
        <?php
        include('koneksi.php');

        $query = "SELECT * FROM anggota order by id desc";
        $result = mysqli_query($koneksi, $query);

        if (mysqli_num_rows($result) > 0) {
            $no = 1;
            echo "<table>";
            echo "<tr><th>No</th><th>Nama</th><th>Jenis Kelamin</th>
                <th>Alamat</th><th>No. Telp</th><th>Aksi</th></tr>";
            while ($row = mysqli_fetch_array($result)) {
                $kelamin = ($row["jenis_kelamin"] === 'L'   'Laki-Laki':'Perempuan';
                echo "<tr>                                )?
                      <td>" . $no++ . "</td><td>" . $row["nama"] . "</td>
                      <td>" . $kelamin . "</td><td>" . $row["alamat"] . "</td>
                      <td>" . $row["no_telp"] . "</td>
                      <td><a href='edit.php?id=" . $row["id"] . "'>Edit</a> |
                      <a href='#' onclick='konfirmasiHapus(" . $row["id"] . ", \"" . $row["nama"] . "\")'>Hapus</a></td>
                      </tr>";
            }
            echo "</table>";
        } else {
            echo "Tidak ada data.";
        }
        mysqli_close($koneksi);
        ?>
    </div>
    <script>
        function konfirmasiHapus(id, nama) {
            var konfirmasi = confirm("Apakah Anda yakin ingin menghapus data dengan Nama " + nama + "?");
            if (konfirmasi) {
                window.location.href = "proses.php?aksi=hapus&id=" + id;
            }
        }
    </script>
</body>
</html>
```

	
	``css
	body {
	font-family: Arial, sans-serif;
	background-color: #f2f2f2;
	}
	.container {
	max-width: 600px;
	margin: 0 auto;
	padding: 20px;
	background-color: #fff;
	border-radius: 5px;
	box-shadow: 0px 0px 5px #888888;
	}
	h2 {
	text-align: center;
	}
	table {
	width: 100%;
	border-collapse: collapse;
	margin-top: 20px;
	}
	table, th, td {
	border: 1px solid #ddd;
	}
	th, td {
	padding: 8px;
	text-align: left;
	}
	th {
	background-color: #f2f2f2;
	}
	.btn-tambah {
	display: inline-block;
	background-color: #4CAF50;
	color: white;
	padding: 10px 20px;
	text-align: center;
	text-decoration: none;
	font-size: 16px;
	margin-top: 20px;
	border: none;
	cursor: pointer;
	border-radius: 5px;
	}
	``
	 
	``css
	.btn-tambah:hover {
	background-color: #45a049;
	}
	form {
	margin-top: 20px;
	}
	label {
	display: block;
	font-weight: bold;
	}
	input[type="text"] {
	width: 95%;
	padding: 10px;
	margin-bottom: 10px;
	border: 1px solid #ccc;
	border-radius: 3px;
	}
	.radio-group label {
	display: inline;
	margin-right: 20px;
	}
	input[type="radio"] {
	margin-right: 5px;
	}
	button[type="submit"], .btn-kembali {
	text-decoration: none;
	background-color: #4CAF50;
	color: white;
	padding: 10px 20px;
	border: none;
	border-radius: 5px;
	cursor: pointer;
	}
	button[type="submit"]:hover, .btn-kembali:hover {
	background-color: #45a049;
	}
	.btn-kembali {
	background-color: #e74c3c;
	}
	``

8	Save the file, then open a browser and run `localhost/week10` . What do you understand from the use of the script. Record below your understanding. (Question No. 1)

Practical Section 2. CRUD - Create

Step	Information
1	Create a new file in the `week10` directory, naming it `create.php`.
2	Type into the `create.php` file the code below.

3	
4	Create a new file in the `week10` directory, naming it `proses.php`.
5	Type into the `proses.php` file the code below.
6	
7	Save the file, then open a browser and run `localhost/week10`. Add anggota data and then save. What do you understand from the script in the file. Record below your understanding. (Question No. 2)

Practical Section 3. CRUD - Update

Step	Information

1	Create a new file in the `week10` directory, naming it `edit.php`.
2	Type into the `edit.php` file the code below.

3	<pre><!DOCTYPE html>
	<html>
	<head>
	    <title>Edit Data Anggota</title>
	    <link rel="stylesheet" href="style.css">
	</head>
	<body>
	    <?php
	    include('koneksi.php');
	    $id = $_GET['id'];
	    $query = "SELECT * FROM anggota WHERE id = $id";
	    $result = mysqli_query($koneksi, $query);
	    $row = mysqli_fetch_assoc($result);
	    mysqli_close($koneksi);
	    ?>
	    <div class="container">
	        <h2>Edit Data Anggota</h2>
	        <form action="proses.php?aksi=ubah" method="post">
	            <input type="hidden" name="id" value="<?php echo $row['id']; ?>">
	            <label for="nama">Nama:</label>
	            <input type="text" name="nama" id="nama" value="<?php echo $row['nama']; ?>" required>
	            <label for="jenis_kelamin">Jenis Kelamin:</label>
	            <div class="radio-group">
	                <input type="radio" name="jenis_kelamin" value="L" id="laki" <?php if ($row['jenis_kelamin'] === 'L')
	echo 'checked'; ?> required><label for="laki">Laki-laki</label>
	                <input type="radio" name="jenis_kelamin" value="P" id="perempuan" <?php if ($row['jenis_kelamin'] ===
	'P') echo 'checked'; ?> required><label for="perempuan">Perempuan</label>
	            </div>
	            <label for="alamat">Alamat:</label>
	            <input type="text" name="alamat" id="alamat" value="<?php echo $row['alamat']; ?>" required>
	            <label for="no_telp">No. Telp:</label>
	            <input type="text" name="no_telp" id="no_telp" value="<?php echo $row['no_telp']; ?>" required>
	            <button type="submit">Simpan Perubahan</button> <a href="index.php" class="btn-kembali">Kembali</a>
	            </form>
	
	            </div>
	</body>
	</html></pre>

4	Add the contents of the file inside the `week10` directory, with the name `proses.php`.
5	Type into the `proses.php` file the code below.

6	<pre>elseif($aksi == 'ubah'){
	    if (isset($_POST['id'])) {
	        $id = $_POST['id'];
	
	        $query = "UPDATE anggota SET nama='$nama', jenis_kelamin='$jenis_kelamin', alamat='$alamat', no_telp=
	'$no_telp' WHERE i =$id";
	                d
	        if (mysqli_query($koneksi, $query)) {
	            header("Location: index.php");
	            exit();
	        } else {
	            echo "Gagal mengupdate data: " . mysqli_error($koneksi);
	        }
	    } else {
	        echo "ID tidak valid.";
	    }
	}
	
	mysqli_close($koneksi);</pre>

7	Save the file, then open a browser and run `localhost/week10`. Make changes to the anggota data and then save it. What do you understand from the script in the file. Record below your understanding. (Question No. 3)

Practical Section 4. CRUD Section Delete

Step	Information
1	Add the contents of the file inside the week10 directory, with the name proses.php.
2	Type into the proses.php file the code below.
3	
4	Save the file, then open a browser and run localhost/week10. Delete member data. What do you understand from the script in the file. Record below your understanding. (Question No. 4)

```php
elseif($aksi == 'hapus'){
    if (isset($_GET['id'])) {
        $id = $_GET['id'];

        $query = "DELETE FROM anggota WHERE i =$id";
                                            d
        if (mysqli_query($koneksi, $query)) {
            header("Location: index.php");
            exit();
        } else {
            echo "Gagal menghapus data: " . mysqli_error($koneksi);
        }
    } else {
        echo "ID tidak valid.";
    }
}else{
    header("Location: index.php");
}

mysqli_close($koneksi);
```

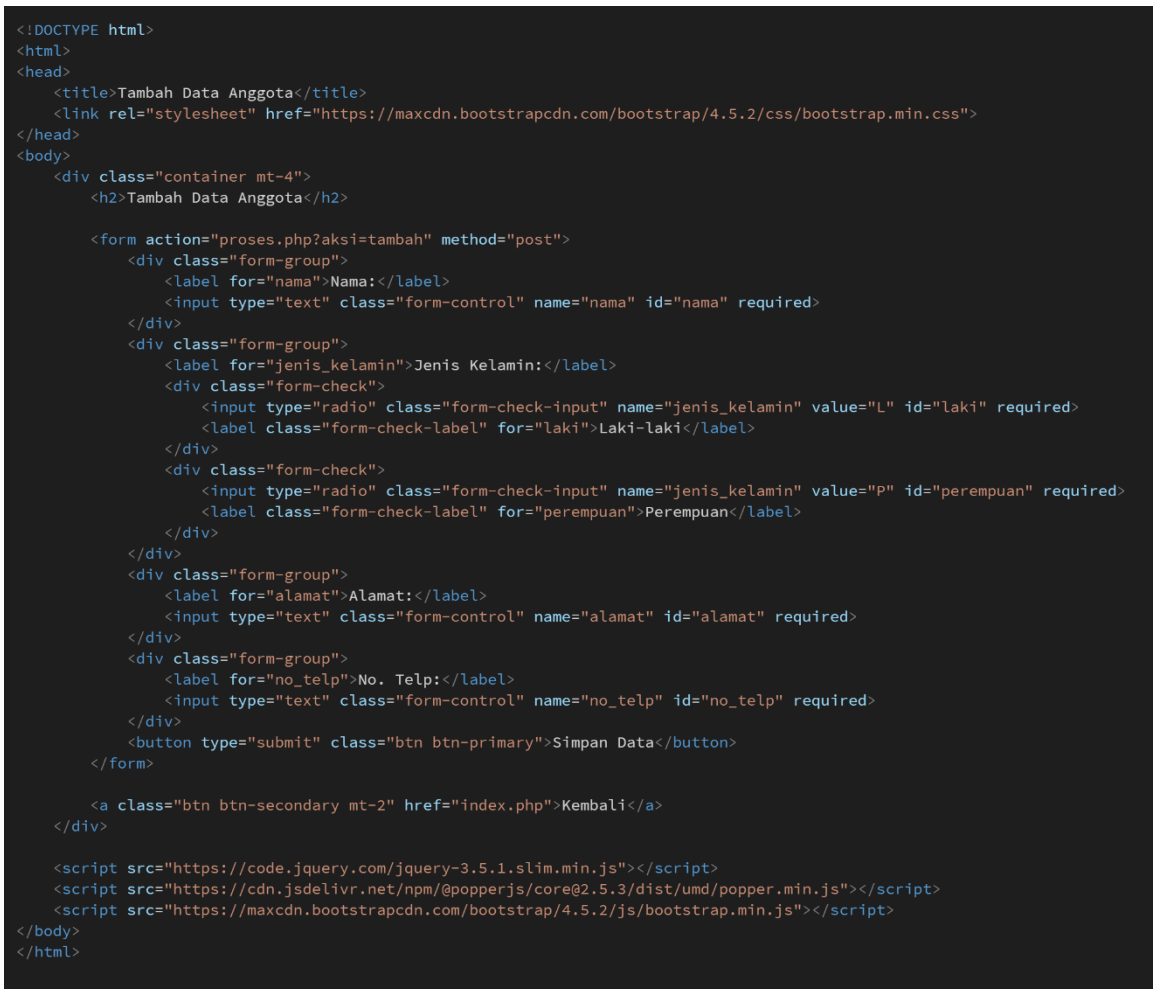
Practical Section 5. CRUD View with Bootstrap

Step	Information
1	Change the contents of the file to the name index.php in the week10 directory.
2	Type into the index.php file the code below.

3	

```
<!DOCTYPE html>
<html>
<head>
    <title>Data Anggota</title>
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
</head>
<body>
    <div class="container mt-4">
        <h2>Data Anggota</h2>
        <a class="btn btn-success mt-2" href="create.php">Tambah Data</a>
        <br><br>
        <?php
        include('koneksi.php');
        $query = "SELECT * FROM anggota order by id desc";
        $result = mysqli_query($koneksi, $query);
        ?>
        <table class="table">
            <thead class="thead-light">
                <tr>
                    <th>No</th>
                    <th>Nama</th>
                    <th>Jenis Kelamin</th>
                    <th>Alamat</th>
                    <th>No. Telp</th>
                    <th>Aksi</th>
                </tr>
            </thead>
            <tbody>
            <?php
            $no = 1;
            while ($row = mysqli_fetch_assoc($result)) {
                $kelamin = ($row["jenis_kelamin"] == 'L')?'Laki-Laki':'Perempuan';
                ?>
                <tr>
                    <td><?=$no++?></td>
                    <td><?=$row["nama"]?></td>
                    <td><?=$kelamin?></td>
                    <td><?=$row["alamat"]?></td>
                    <td><?=$row["no_telp"]?></td>
                    <td>
                        <a class="btn btn-primary" href="edit.php?id=<?=$row["id"]?>">Edit</a>
                        <a class='btn btn-danger' href='#' data-toggle='modal' data-target='#hapusModal<?=$row["id"]?>'>
Hapus</a>
                    </td>
                </tr>
                <div class='modal fade' id='hapusModal<?= $row["id"] ?>' tabindex='-1' role='dialog' aria-labelledby=
'exampleModalLabel' aria-hidden='true'>
                    <div class='modal-dialog' role='document'>
                        <div class='modal-content'>
                            <div class='modal-header'>
                                <h5 class='modal-title' id='exampleModalLabel'>Konfirmasi Hapus</h5>
                                <button type='button' class='close' data-dismiss='modal' aria-label='Close'>
                                    <span aria-hidden='true'>&times;</span>
                                </button>
                            </div>
                            <div class='modal-body'>
                                <?= "Apakah Anda yakin ingin menghapus data dengan nama " . $row["nama"] . "?" ?>
                            </div>
                            <div class='modal-footer'>
                                <a class='btn btn-danger' href='proses.php?aksi=hapus&id=<?= $row["id"] ?>'>Hapus</a>
                                <button type='button' class='btn btn-secondary' data-dismiss='modal'>Batal</button>
                            </div>
                        </div>
                    </div>
                </div>
                <?php
            }
            ?>
            </tbody>
        </table>
    </div>

    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
    <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.5.3/dist/umd/popper.min.js"></script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
</body>
</html>
```

4	Save the file, then open a browser and run `localhost/week10`. What do you understand from the script in the file. Record below your understanding. (Question No. 5)

5	Change the contents of the file to the name `create.php` in the `week10 directory`.
6	Type into the `create.php` file the code below.
7	
8	Save the file, then open a browser and run `localhost/week10`. Add anggota data and then save. What do you understand from the script in the file. Record below your understanding. (Question No. 6)
9	Change the contents of the file in `the week10 directory`, with the name `edit.php`
10	Type into the `edit.php` file the code below.

```
<!DOCTYPE html>
<html>
<head>
    <title>Tambah Data Anggota</title>
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
</head>
<body>
    <div class="container mt-4">
        <h2>Tambah Data Anggota</h2>

        <form action="proses.php?aksi=tambah" method="post">
            <div class="form-group">
                <label for="nama">Nama:</label>
                <input type="text" class="form-control" name="nama" id="nama" required>
            </div>
            <div class="form-group">
                <label for="jenis_kelamin">Jenis Kelamin:</label>
                <div class="form-check">
                    <input type="radio" class="form-check-input" name="jenis_kelamin" value="L" id="laki" required>
                    <label class="form-check-label" for="laki">Laki-laki</label>
                </div>
                <div class="form-check">
                    <input type="radio" class="form-check-input" name="jenis_kelamin" value="P" id="perempuan" required>
                    <label class="form-check-label" for="perempuan">Perempuan</label>
                </div>
            </div>
            <div class="form-group">
                <label for="alamat">Alamat:</label>
                <input type="text" class="form-control" name="alamat" id="alamat" required>
            </div>
            <div class="form-group">
                <label for="no_telp">No. Telp:</label>
                <input type="text" class="form-control" name="no_telp" id="no_telp" required>
            </div>
            <button type="submit" class="btn btn-primary">Simpan Data</button>
        </form>

        <a class="btn btn-secondary mt-2" href="index.php">Kembali</a>
    </div>

    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
    <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.5.3/dist/umd/popper.min.js"></script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
</body>
</html>
```

11	
12	Save the file, then open a browser and run `localhost/week10`. Make changes at anggota data, then save. What do you understand from the script in the file. Record below your understanding. (Question No. 7)

```php
<!DOCTYPE html>
<html>
<head>
    <title>Edit Data Anggota</title>
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
</head>
<body>
    <?php
    include('koneksi.php');
    $id = $_GET['id'];
    $query = "SELECT * FROM anggota WHERE id = $id";
    $result = mysqli_query($koneksi, $query);
    $row = mysqli_fetch_assoc($result);
    mysqli_close($koneksi);
    ?>
    <div class="container mt-4">
        <h2>Edit Data Anggota</h2>

        <form action="proses.php?aksi=ubah" method="post">
            <input type="hidden" name="id" value="<?php echo $row['id']; ?>">
            <div class="form-group">
                <label for="nama">Nama:</label>
                <input type="text" class="form-control" name="nama" id="nama" value="<?php echo $row['nama']; ?>" required
>
            </div>
            <div class="form-group">
                <label for="jenis_kelamin">Jenis Kelamin:</label>
                <div class="form-check">
                    <input type="radio" class="form-check-input" name="jenis_kelamin" value="L" id="laki" <?php if ($row[
'jenis_kelamin'] === 'L') echo 'checked'; ?> required>
                    <label class="form-check-label" for="laki">Laki-laki</label>
                </div>
                <div class="form-check">
                    <input type="radio" class="form-check-input" name="jenis_kelamin" value="P" id="perempuan" <?php if (
$row['jenis_kelamin'] === 'P') echo 'checked'; ?> required>
                    <label class="form-check-label" for="perempuan">Perempuan</label>
                </div>
            </div>
            <div class="form-group">
                <label for="alamat">Alamat:</label>
                <input type="text" class="form-control" name="alamat" id="alamat" value="<?php echo $row['alamat']; ?>"
required>
            </div>
            <div class="form-group">
                <label for="no_telp">No. Telp:</label>
                <input type="text" class="form-control" name="no_telp" id="no_telp" value="<?php echo $row['no_telp']; ?>"
 required>
            </div>
            <button type="submit" class="btn btn-primary">Simpan Perubahan</button>
        </form>

        <a class="btn btn-secondary mt-2" href="index.php">Kembali</a>
    </div>

    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
    <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.5.3/dist/umd/popper.min.js"></script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
</body>
</html>
```

Practical Section 6. CRUD Display with Ajax

Step	Information
1	Create a new folder inside `week10` with the name `ajax`. In that folder, create a new file with the name `koneksi.php`.
2	Type into the `koneksi.php` file the code below.

3	<?php
	define('HOST','localhost');
	define('USER','root');
	define('PASS','');
	define('DB1', 'prakwebdb');
	
	// Buat Koneksinya
	$db1 = new mysqli(HOST, USER, PASS, DB1);

4	Create a **auth.php** file to authenticate it and for its security. Fill in the code below

5	<?php
	//Membuat Token Keamanan Ajax Request (Csrf Token)
	session_start();
	if (empty($_SESSION['csrf_token'])) {
	  $_SESSION['csrf_token'] = bin2hex(random_bytes(32));
	}
	
	?>

6	Create a **index.php** file and fill it in with the script below

7

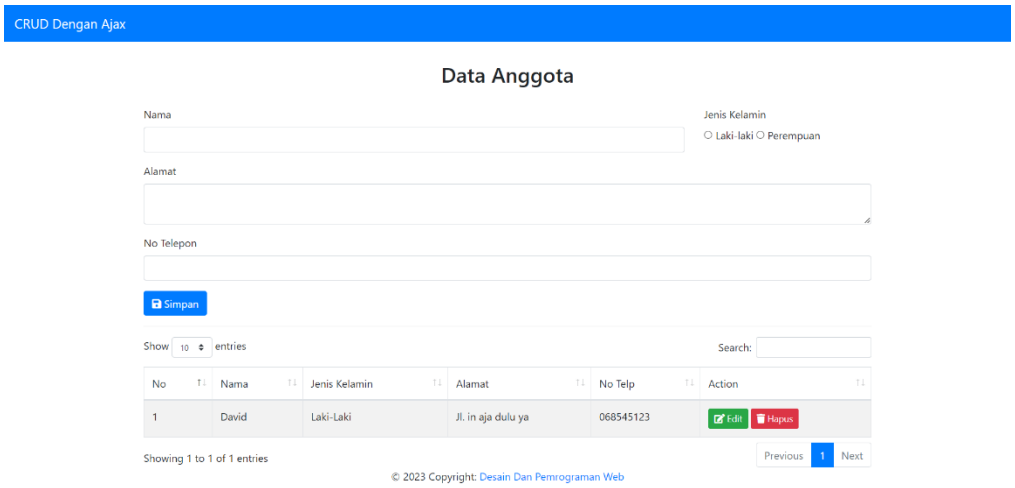
```php
<?php
include 'auth.php';
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <!-- Csrf Token -->
    <meta name="csrf-token" content="<?= $_SESSION['csrf_token'] ?>">
    <!-- Bootstrap -->
    <link href="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.1.3/css/bootstrap.css" rel="stylesheet">
    <!-- Font Awesome -->
    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.7.2/css/all.css" integrity=
"sha384-fnmOCqbTlWIlj8LyTjo7mOUStjsKC4pOpQbqyi7RrhN7udi9RwhKkMHpvLbHG9Sr" crossorigin="anonymous">
    <!-- Datatable -->
    <link rel="stylesheet" type="text/css" href="https://cdn.datatables.net/1.10.19/css/dataTables.bootstrap4.min.css">
    <title>Data Anggota</title>
</head>
<body>
    <nav class="navbar navbar-dark bg-primary">
      <a class="navbar-brand" href="index.php" style="color: #fff;">
        CRUD Dengan Ajax
      </a>
    </nav>

    <div class="container">
        <h2 align="center" style="margin: 30px;">Data Anggota</h2>

        <form method="post" class="form-data" id="form-data">
            <div class="row">
                <div class="col-sm-9">
                    <div class="form-group">
                        <label>Nama</label>
                        <input type="hidden" name="id" id="id">
                        <input type="text" name="nama" id="nama" class="form-control" required="true">
                    </div>
                </div>
                <div class="col-sm-3">
                    <div class="form-group">
                        <label>Jenis Kelamin</label><br>
                        <input type="radio" name="jenis_kelamin" id="jenkel1" value="L" required="true"> Laki-laki
                        <input type="radio" name="jenis_kelamin" id="jenkel2" value="P"> Perempuan
                    </div>
                </div>
            </div>

            <div class="form-group">
                <label>Alamat</label>
                <textarea name="alamat" id="alamat" class="form-control" required="true"></textarea>
            </div>

            <div class="form-group">
                <label>No Telepon</label>
                <input type="number" name="no_telp" id="no_telp" class="form-control" required="true">
            </div>

            <div class="form-group">
                <button type="button" name="simpan" id="simpan" class="btn btn-primary">
                    <i class="fa fa-save"></i> Simpan
                </button>
            </div>
        </form>
        <hr>

        <div class="data"></div>

    </div>

    <div class="text-center">© <?php echo date('Y'); ?> Copyright:
        <a href="https://google.com/"> Desain Dan Pemrograman Web</a>
    </div>

    <!-- JQuery -->
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js"></script>
    <!-- DataTable -->
    <script src="https://cdn.datatables.net/1.10.19/js/jquery.dataTables.min.js"></script>
    <script src="https://cdn.datatables.net/1.10.19/js/dataTables.bootstrap4.min.js"></script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"></script>

    <script type="text/javascript">
        $(document).ready(function(){
            //Mengirimkan Token Keamanan
            $.ajaxSetup({
                headers : {
                    'Csrf-Token': $('meta[name="csrf-token"]').attr('content')
                }
            });

            $('.data').load("data.php");
        });
        </script>
</body>
</html>
```

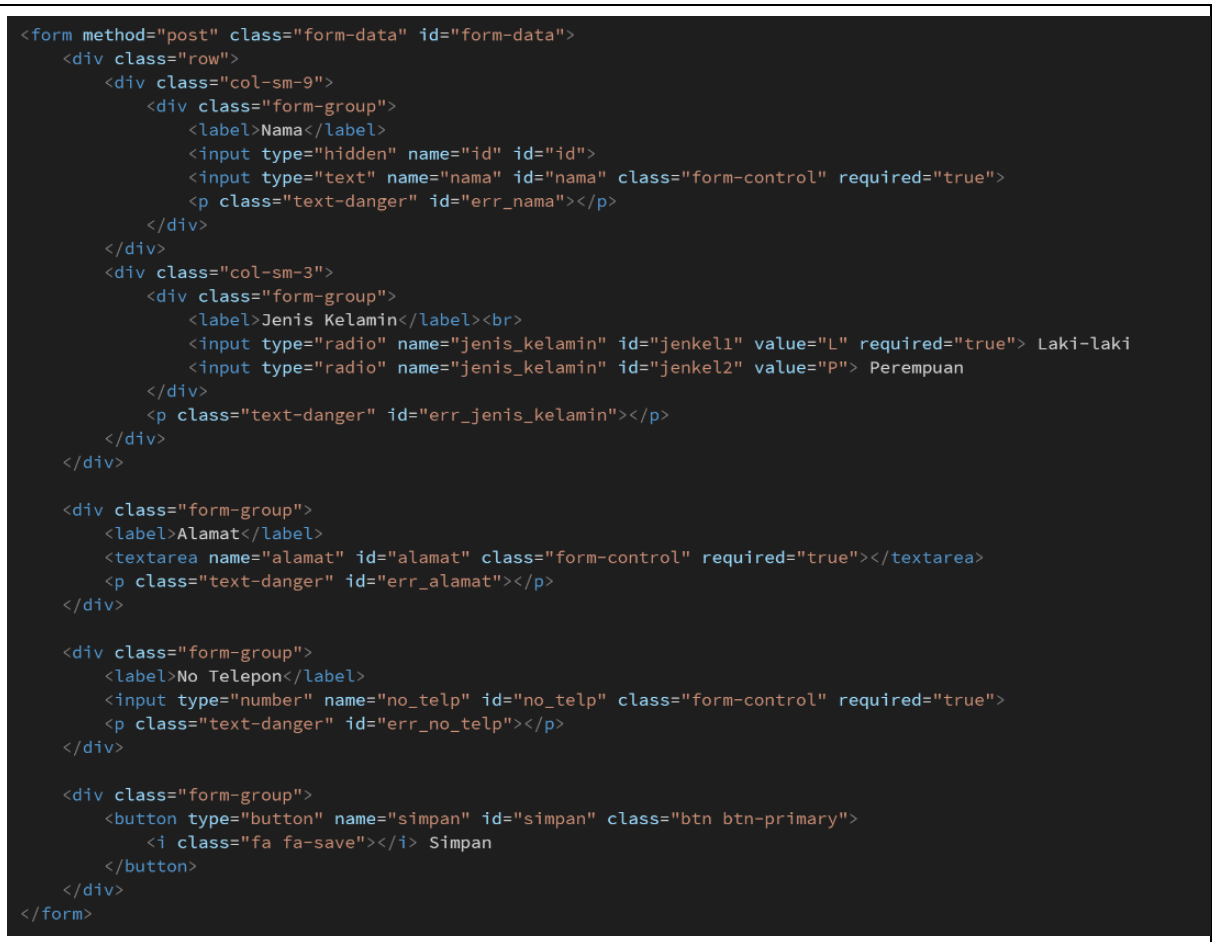
	<!-- Bootstrap --> <link href="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.1.3/css/bootstrap.css" rel="stylesheet"> <!-- Font Awesome --> <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.7.2/css/all.css" integrity="sha384-fnmOCqbTlWIlj8LyTjo7mOUStjsKC4pOpQbqyi7RrhN7udi9RwhKkMHpvLbHG9Sr" crossorigin="anonymous">
8	Create a **data.php** file that functions to reload data using ajax so that the application does not need to load when saving data or there is data update. Fill in **data.php** with the script below

9	<table id="example" class="table table-striped table-bordered" style="width:100%">
	<thead>
	<tr>
	<td>No</td>
	<td>Nama</td>
	<td>Jenis Kelamin</td>
	<td>Alamat</td>
	<td>No Telp</td>
	<td>Action</td>
	</tr>
	</thead>
	<tbody>
	<?php
	include 'koneksi.php';
	$no = 1;
	$query = "SELECT * FROM anggota ORDER BY id DESC";
	$sql = $db1->prepare($query);
	$sql->execute();
	$res1 = $sql->get_result();
	
	if ($res1->num_rows > 0) {
	while ($row = $res1->fetch_assoc()) {
	$id = $row['id'];
	$nama = $row['nama'];
	$jenis_kelamin = ($row['jenis_kelamin'] == 'L')?'Laki-Laki':'Perempuan';
	$alamat = $row['alamat'];
	$no_telp = $row['no_telp'];
	?>
	<tr>
	<td><?php echo $no++; ?></td>
	<td><?php echo $nama; ?></td>
	<td><?php echo $jenis_kelamin; ?></td>
	<td><?php echo $alamat; ?></td>
	<td><?php echo $no_telp; ?></td>
	<td>
	<button id="<?php echo $id; ?>" class="btn btn-success btn-sm edit_data"> Edit </button>
	<button id="<?php echo $id; ?>" class="btn btn-danger btn-sm hapus_data"> <i class="fa fa-trash"></i> Hapus </button>
	</td>
	</tr>
	<?php } } else { ?>
	<tr>
	<td colspan='7'>Tidak ada data ditemukan</td>
	</tr>
	<?php } ?>
	</tbody>
	</table>
	
	<script type="text/javascript">
	$(document).ready(function() {
	$('#example').DataTable();
	});
	</script>

10	For security because we use headers in ajax, we need to create a **csrf.php** file and then fill it with the script below

11	<?php
	header('Content-Type: application/json');
	
	//Mengirimkan Token Keamanan
	if (empty($_SESSION['csrf_token'])) {
	$_SESSION['csrf_token'] = bin2hex(random_bytes(32));
	}
	
	$headers = apache_request_headers();
	if (isset($headers['Csrf-Token'])) {
	if ($headers['Csrf-Token'] !== $_SESSION['csrf_token']) {
	exit(json_encode(['error' => 'Wrong CSRF token.']));
	}
	} else {
	exit(json_encode(['error' => 'No CSRF token.']));
	}
	?>

12	Save the file, then open a browser and run `localhost/week10/ajax`. It should appear like the image below  What do you understand from the scripts on those files. Record below your understanding. (Question No. 8)
13	Next, create a form with data that can be saved. Open the **index.php** file and add some scripts below so that the ones added are only for the error check section with examples

14	
15	Still in the **index.php** file with the addition of the javascript script, insert the script below in the jquery that is already in step 7
16	

```
<form method="post" class="form-data" id="form-data">
    <div class="row">
        <div class="col-sm-9">
            <div class="form-group">
                <label>Nama</label>
                <input type="hidden" name="id" id="id">
                <input type="text" name="nama" id="nama" class="form-control" required="true">
                <p class="text-danger" id="err_nama"></p>
            </div>
        </div>
        <div class="col-sm-3">
            <div class="form-group">
                <label>Jenis Kelamin</label><br>
                <input type="radio" name="jenis_kelamin" id="jenkel1" value="L" required="true"> Laki-laki
                <input type="radio" name="jenis_kelamin" id="jenkel2" value="P"> Perempuan
            </div>
            <p class="text-danger" id="err_jenis_kelamin"></p>
        </div>
    </div>

    <div class="form-group">
        <label>Alamat</label>
        <textarea name="alamat" id="alamat" class="form-control" required="true"></textarea>
        <p class="text-danger" id="err_alamat"></p>
    </div>

    <div class="form-group">
        <label>No Telepon</label>
        <input type="number" name="no_telp" id="no_telp" class="form-control" required="true">
        <p class="text-danger" id="err_no_telp"></p>
    </div>

    <div class="form-group">
        <button type="button" name="simpan" id="simpan" class="btn btn-primary">
            <i class="fa fa-save"></i> Simpan
        </button>
    </div>
</form>
```

```
$("#simpan").click(function(){
                var data = $('.form-data').serialize();
                var jenkel1 = document.getElementById("jenkel1").value;
                var jenkel2 = document.getElementById("jenkel2").value;
                var nama = document.getElementById("nama").value;
                var alamat = document.getElementById("alamat").value;
                var no_telp = document.getElementById("no_telp").value;

                if (nama=="") {
                    document.getElementById("err_nama").innerHTML = "Nama Harus Diisi";
                } else {
                    document.getElementById("err_nama").innerHTML = "";
                }
                if (alamat=="") {
                    document.getElementById("err_alamat").innerHTML = "Alamat Harus Diisi";
                } else {
                    document.getElementById("err_alamat").innerHTML = "";
                }
                if (document.getElementById("jenkel1").checked==false && document.getElementById("jenkel2").checked==false
) {
                    document.getElementById("err_jenis_kelamin").innerHTML = "Jenis Kelamin Harus Dipilih";
                } else {
                    document.getElementById("err_jenis_kelamin").innerHTML = "";
                }
                if (no_telp=="") {
                    document.getElementById("err_no_telp").innerHTML = "No Telepon Harus Diisi";
                } else {
                    document.getElementById("err_no_telp").innerHTML = "";
                }
```

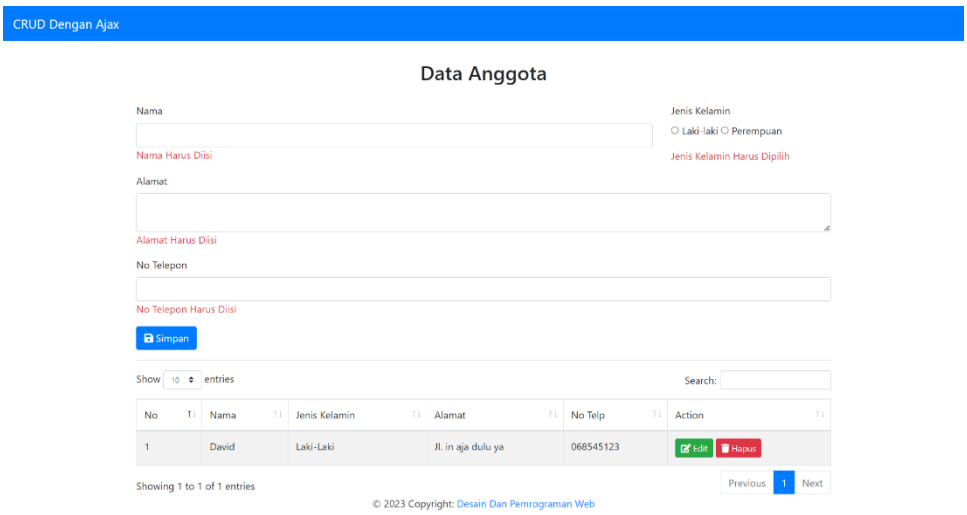
```
            if (nama!=""  && alamat!="" && (document.getElementById("jenkel1").checked==true || document.
getElementById("jenkel2").checked==true) && no_telp!="") {
                $.ajax({
                    type: 'POST',
                    url: "form_action.php",
                    data: data,
                    success: function() {
                        $('.data').load("data.php");
                        document.getElementById("id").value = "";
                        document.getElementById("form-data").reset();
                    }, error: function(response){
                    console.log(response.responseText);
                }
                });
            }

        });
```

17 Next is to create a **form_action.php** file that functions to save into the database. Then fill it in with the script below

18

```php
<?php
session_start();
include 'koneksi.php';
include 'csrf.php';

$nama = stripslashes(strip_tags(htmlspecialchars($_POST['nama'] ,ENT_QUOTES)));
$jenis_kelamin = stripslashes(strip_tags(htmlspecialchars($_POST['jenis_kelamin'] ,ENT_QUOTES)));
$alamat = stripslashes(strip_tags(htmlspecialchars($_POST['alamat'] ,ENT_QUOTES)));
$no_telp = stripslashes(strip_tags(htmlspecialchars($_POST['no_telp'] ,ENT_QUOTES)));

$query = "INSERT into anggota (nama, jenis_kelamin, alamat, no_telp) VALUES (?, ?, ?, ?)";
$sql = $db1->prepare($query);
$sql->bind_param("ssss", $nama, $jenis_kelamin, $alamat, $no_telp);
$sql->execute();

echo json_encode(['success' => 'Sukses']);

$db1->close();
?>
```

19 Save the file, then open a browser and run `localhost/week10/ajax`. It should appear like the image below if you click the save button without filling in any data



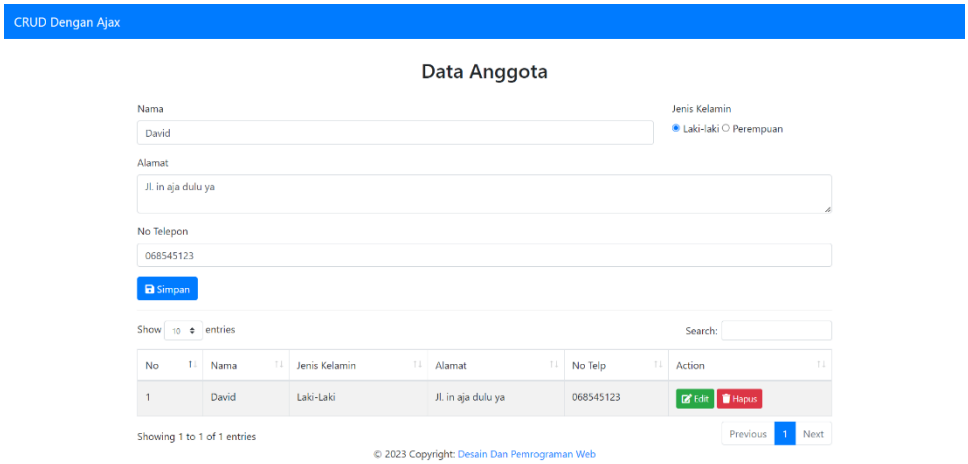
What do you understand from the scripts on those files. Record below your understanding. (Question No. 9)

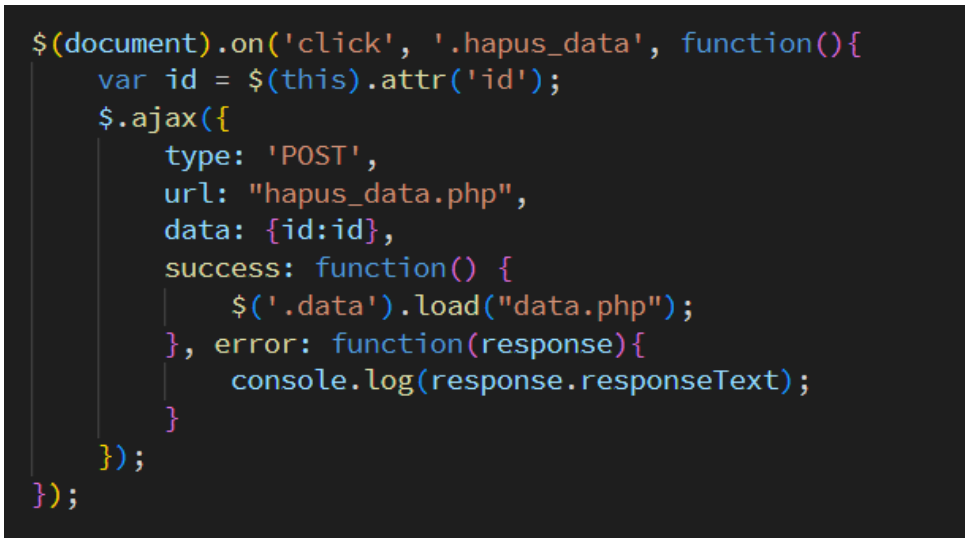
20	Next, create a form with data that can be changed. Open the **data.php** file and add some scripts below so the ones added in the jquery section
21	
22	Create a **get_data.php** file and fill it in with the script below
23	
24	Finally, change the **form_action.php** file to the one below so that you can edit the form

```
<script type="text/javascript">
    $(document).ready(function() {
        $('#example').DataTable();
    }
     );
    function reset(){
        document.getElementById("err_nama").innerHTML = "";
        document.getElementById("err_jenis_kelamin").innerHTML = "";
        document.getElementById("err_alamat").innerHTML = "";
        document.getElementById("err_no_telp").innerHTML = "";
    }

    $(document).on('click', '.edit_data', function(){
        $('html, body').animate({ scrollTop: 0 }, 'slow');
        var id = $(this).attr('id');
        $.ajax({
            type: 'POST',
            url: "get_data.php",
            data: {id:id},
            dataType:'json',
            success: function(response) {
                reset();
                $('html, body').animate({ scrollTop: 30 }, 'slow');
                document.getElementById("id").value = response.id;
                document.getElementById("nama").value = response.nama;
                document.getElementById("alamat").value = response.alamat;
                document.getElementById("no_telp").value = response.no_telp;
                if (response.jenis_kelamin=="L") {
                    document.getElementById("jenkel1").checked = true;
                } else {
                    document.getElementById("jenkel2").checked = true;
                }
            }, error: function(response){
            console.log(response.responseText);
            }
        });
    });
</script>
```

```
<?php
session_start();
include 'koneksi.php';
include 'csrf.php';

$id = $_POST['id'];
$query = "SELECT * FROM anggota WHERE id=? ORDER BY id DESC";
$sql = $db1->prepare($query);
$sql->bind_param('i', $id);
$sql->execute();
$res1 = $sql->get_result();
while ($row = $res1->fetch_assoc()) {
    $h['id'] = $row["id"];
    $h['nama'] = $row["nama"];
    $h['jenis_kelamin'] = $row["jenis_kelamin"];
    $h['alamat'] = $row["alamat"];
    $h['no_telp'] = $row["no_telp"];
}
echo json_encode($h);

$db1->close();
?>
```

25	<?php
	session_start();
	include 'koneksi.php';
	include 'csrf.php';
	
	$id = stripslashes(strip_tags(htmlspecialchars($_POST['id'] ,ENT_QUOTES)));
	$nama = stripslashes(strip_tags(htmlspecialchars($_POST['nama'] ,ENT_QUOTES)));
	$jenis_kelamin = stripslashes(strip_tags(htmlspecialchars($_POST['jenis_kelamin'] ,ENT_QUOTES)));
	$alamat = stripslashes(strip_tags(htmlspecialchars($_POST['alamat'] ,ENT_QUOTES)));
	$no_telp = stripslashes(strip_tags(htmlspecialchars($_POST['no_telp'] ,ENT_QUOTES)));
	
	if ($id == "") {
	$query = "INSERT into anggota (nama, jenis_kelamin, alamat, no_telp) VALUES (?, ?, ?, ?)";
	$sql = $db1->prepare($query);
	$sql->bind_param("ssss", $nama, $jenis_kelamin, $alamat, $no_telp);
	$sql->execute();
	} else {
	$query = "UPDATE anggota SET nama=?, jenis_kelamin=?, alamat=?, no_telp=? WHERE id=?";
	$sql = $db1->prepare($query);
	$sql->bind_param("ssssi", $nama, $jenis_kelamin, $alamat, $no_telp, $id);
	$sql->execute();
	}
	echo json_encode(['success' => 'Sukses']);
	
	$db1->close();
	?>

26	Save the file, then open a browser and run `localhost/week10/ajax`. When clicking the edit button, it should appear as shown in the image below with the form auto-filled from the previous data  What do you understand from the scripts on those files. Record below your understanding. (Question No. 10)
27	On the <script>... </script> in the data.php file add the code below

28	
29	Create a **hapus_data.php** file on your project and type the script below
30	
31	Save the file, then open a browser and run `localhost/week10/ajax`. When you click the delete button, the data should be deleted. What do you understand from the scripts on those files. Record below your understanding. (Question No. 11)