

# LATIHAN

## (Siapkan PC/Laptop)

Sudah Terinstall (Minimal):

1. Xampp (jalankan Localhost)
2. Teks Editor (Menulis Script)

# Pakai Bootstrap

<https://getbootstrap.com/docs/5.3/getting-started/introduction/>

# Koneksi Database (koneksi.php)

## Nama Database (lat\_pegawai)

- <?php
- \$konek =  
mysqli\_connect('localhost','root','','lat\_pegaw  
ai');
- ?>

**BUAT FORM LOGIN**

# CRUD PHP Sederhana

Contoh CRUD (Create, Read, Update, Delete)

<https://www.php.net/manual/en/>

Input Login:

- - username
- - password

# Struktur Tabel MySQL

- Buat Database dengan nama lat\_pegawai
  - Pakai XAMPP
- 
- CREATE TABLE user (
    - id INT AUTO\_INCREMENT PRIMARY KEY,
    - username VARCHAR(100),
    - password VARCHAR(100)
    - );

# XAMPP

http://localhost/phpmyadmin/

The screenshot displays the phpMyAdmin web interface. The top navigation bar shows the server path: Server: 127.0.0.1 » Database: lat\_pegawai » Table: user. Below this, a row of tabs includes Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, and Triggers. The 'Structure' tab is active, showing a table with three columns: id, username, and password. Each column has a checkbox for selection and a set of action links (Change, Drop, More). At the bottom, there are links for Print, Propose table structure, Move columns, and Normalize. The left sidebar contains the phpMyAdmin logo, a search bar, and a tree view of the database structure showing 'lat\_pegawai' with sub-items 'New', 'pegawai', and 'user'.

phpMyAdmin

Recent Favorites

Type to filter these, Enter to search al X

1 >>>

lat\_pegawai

- New
- pegawai
- user

Server: 127.0.0.1 » Database: lat\_pegawai » Table: user

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 id	int(5)			No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/>	2 username	varchar(100)	latin1_swedish_ci		No	None			Change  Drop  More
<input type="checkbox"/>	3 password	varchar(50)	latin1_swedish_ci		No	None			Change  Drop  More

☐ Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Print Propose table structure Move columns Normalize

# MEENGAMBIL DATA LOGIN

- <?php
- include 'koneksi.php';
- \$data = mysqli\_query(\$konek, "SELECT \*  
FROM user");
- ?>



# Terapkan Select

```
<?php
session_start();
include "koneksi.php";

// Jika tombol login diklik
if ($_SERVER['REQUEST_METHOD'] === 'POST') {
    $user = $_POST['username'];
    $pass = $_POST['password'];

    // QUERY CEK USER
    $sql = "SELECT * FROM user WHERE username='$user' AND password='$pass'";
    $cek = mysqli_query($koneksi, $sql);

    // Jika data ditemukan
    if (mysqli_num_rows($cek) === 1) {
        $_SESSION['login'] = true;
        $_SESSION['username'] = $user;
        header("Location: dashboard.php");
        exit;
    } else {
        session_start();
        $error = "Username atau Password Salah!";
        $_SESSION['login_error'] = $error;
        header("Location: login.php");
        exit;
    }
}
```

```
<h3 class="text-center">Login</h3>
```

```
<?php
// Kiriman dari proses_login.php
session_start();
if (isset($_SESSION['login_error'])) {
    echo "<div class='alert alert-danger text-center fw-bold'>
        \"$_SESSION['login_error']\"
    </div>";
    unset($_SESSION['login_error']);
}
?>
```

```
<form method="POST" action="proses_login.php">
    <div class="mb-3">
        <label class="form-label">Username</label>
        <input type="text" name="username" required class="form-control" placeholder="Masukkan username">
    </div>

    <div class="mb-3">
        <label class="form-label">Password</label>
        <input type="password" name="password" required class="form-control" placeholder="Masukkan password">
    </div>

    <button type="submit" class="btn btn-primary w-100 mt-2">Login</button>
</form>
```

```
</div>
```

```
</div>
```

```
</div>
```



**BALAI KARANTINA HEWAN IKAN DAN  
TUMBUHAN GORONTALO**

**LATIHAN MEMBUAT APLIKASI KEPEGAWAIAN**

## Login

**Username atau Password Salah!**

Username

bkhitgto

Password

.....

Login

# CRUD PHP Sederhana

Contoh CRUD (Create, Read, Update, Delete)

Input Data:

- - Nama
- - NIP
- - Jabatan

# Struktur Tabel MySQL

- Buat Database dengan nama lat\_pegawai
- Pakai XAMPP
- CREATE TABLE user (
  - id INT AUTO\_INCREMENT PRIMARY KEY,
  - nama VARCHAR(100),
  - nip VARCHAR(50),
  - jabatan VARCHAR(150)
  - );

# XAMPP

http://localhost/phpmyadmin/

The screenshot displays the phpMyAdmin web interface. On the left is a sidebar with the 'phpMyAdmin' logo and a list of databases including 'lat\_pegawai'. The main panel shows the 'Table structure' view for the 'pegawai' table. The table has four columns: 'id' (int(11), primary key), 'nama' (varchar(100)), 'nip' (int(50)), and 'jabatan' (varchar(150)). Below the table structure, there are options to 'Add' a new column, with a dropdown menu set to 'after jabatan'. The 'Indexes' section shows a primary index on the 'id' column. At the bottom, there is a 'Partitions' section and a 'Console' tab.

Server: 127.0.0.1 » Database: lat\_pegawai » Table: pegawai

Table structure | Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	nama	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
3	nip	int(50)			No	None			Change Drop More
4	jabatan	varchar(150)	utf8mb4_general_ci		No	None			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Add to central columns Remove from central columns

Print Propose table structure Track table Move columns Normalize

Add 1 column(s) after jabatan Go

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	id	0	A	No	

Create an index on 1 columns Go

Partitions

Console

**BUAT FORM INPUTAN**

# CREATE (Tambah Data)

- <?php
- include 'koneksi.php';
- \$nama = \$\_POST['nama'];
- \$nip = \$\_POST['nip'];
- \$jabatan = \$\_POST['jabatan'];
- mysqli\_query(\$konek, "INSERT INTO pegawai (nama, nip, jabatan) VALUES('', '\$nama', '\$nip', '\$jabatan')");
- ?>



# Terapkan Create

```
<?php
include 'koneksi.php';

$nama  = $_POST['nama'];
$nip   = $_POST['nip'];
$jabatan = $_POST['jabatan'];

$ccek = mysqli_query($koneksi, "SELECT * FROM pegawai WHERE nip='$nip'");

if ($ccek->num_rows > 0) {
    // Jika data sudah ada
    echo "<script>
        alert('Data Sudah Ada Yang Sama!');
        window.location.href = 'edit.php';
    </script>";
} else {

    $simpan=mysqli_query($koneksi, "INSERT INTO pegawai (nama, nip, jabatan)
        VALUES ('$nama', '$nip', '$jabatan')");

    if ($simpan) {
        echo "<script>
            alert('Data berhasil disimpan!');
            window.location.href = 'edit.php';
        </script>";
    } else {
        echo "<script>
            alert('Gagal menyimpan data: " . mysqli_error($koneksi) . "');
            window.history.back();
        </script>";
    }
}

?>
```

```
<h2 class="text-primary">Form Inputan</h2>
</center>
<div class="container d-flex justify-content-center align-items-center vh-20">

  <form method="post" action="simpan.php">
    <div class="row mb-3">
      <label for="nama" class="col-sm-2 col-form-label text-front">Nama</label>
      <div class="col-sm-10">
        <input type="text" name="nama" class="form-control" placeholder="Input Nama" required autofocus>
      </div>
    </div>
    <div class="row mb-3">
      <label for="nip" class="col-sm-2 col-form-label text-front">NIP</label>
      <div class="col-sm-10">
        <input type="number" name="nip" class="form-control" placeholder="Input NIP" required>
      </div>
    </div>
    <div class="row mb-3">
      <label for="jabatan" class="col-sm-2 col-form-label text-front">Jabatan</label>
      <div class="col-sm-10">
        <input type="text" name="jabatan" class="form-control" placeholder="Input Jabatan" required>
      </div>
    </div>
    <div class="text-center">
      <button type="submit" class="btn btn-info">Simpan</button>
    </div>
  </form>
</div>
<?php
```

# Form Inputan

Dashboard Form Edit/Hapus Tabel-Tabel ▾

## Latihan Aplikasi Pegawai

### Form Inputan

Nama

NIP

Jabatan

Buat Tampilan

# READ (Menampilkan Data)

- <?php
- include 'koneksi.php';
- \$data = mysqli\_query(\$koneksi, "SELECT \* FROM pegawai");
- while(\$d = mysqli\_fetch\_assoc(\$data)){
- echo \$d['nama'].' - '.\$d['nip'].' -  
      '.\$d['jabatan'].'<br>';
- }
- ?>

```

<div class="table-responsive">
  <table class="table table-hover align-middle text-center">
    <thead>
      <tr>
        <th style="width: 5%;">No</th>
        <th style="width: 18%;">Aksi</th>
        <th>Nama</th>
        <th>NIP</th>
        <th>Jabatan</th>
      </tr>
    </thead>
    <tbody>
      <?php
        $sql = mysqli_query($koneksi, "SELECT * FROM pegawai ORDER BY id DESC");
        $no = 1;
        while ($d = mysqli_fetch_array($sql)) {
          ?>
          <tr>
            <td class="text-center fw-semibold"><?= $no++; ?></td>
            <td class="text-center">
              <a href="editpegawai.php?id=<?= htmlspecialchars($d['id']); ?>" class="btn btn-warning btn-sm rounded-pill px-3 me-1">
                Edit
              </a>
              <a href="hapuspegawai.php?id=<?= htmlspecialchars($d['id']); ?>" class="btn btn-danger btn-sm rounded-pill px-3"
                onclick="return confirm('Yakin ingin menghapus data ini?');">
                Hapus
              </a>
            </td>
            <td><?= htmlspecialchars($d['nama']); ?></td>
            <td><?= htmlspecialchars($d['nip']); ?></td>
            <td><?= htmlspecialchars($d['jabatan']); ?></td>
          </tr>
        }
      </tbody>
    </table>
  </div>

```

# READ (Menampilkan Data)

DASHBOARD FORM EDIT/HAPUS TABEL-TABEL ▾ KELUAR

## TABEL EDIT/HAPUS

No	Aksi	Nama	NIP	Jabatan
1	<input type="button" value="Edit"/> <input type="button" value="Hapus"/>	Nugroho Lejar Hadi Widodo	198403152010121002	Pranata Komputer Mahir
2	<input type="button" value="Edit"/> <input type="button" value="Hapus"/>	Hasanuddin	197704182008121002	Paramedik Karantina Hewan Mahir
3	<input type="button" value="Edit"/> <input type="button" value="Hapus"/>	Loyis Marali	198408012008011004	Pengendali Hama Penyakit Ikan Ahli Pertama
4	<input type="button" value="Edit"/> <input type="button" value="Hapus"/>	Muh. Ardiansyah	199006152015031005	Pengendali Hama Penyakit Ikan Mahir
5	<input type="button" value="Edit"/> <input type="button" value="Hapus"/>	Muh. Khurniani Adnan	200303182025061002	Calon Pengendali Hama dan Penyakit Ikan Ahli Pertama

BUAT UPDATE/EDIT



# UPDATE (Edit Data)

- <?php
- include 'koneksi.php';
- \$id = \$\_POST['id'];
- \$nama = \$\_POST['nama'];
- \$nip = \$\_POST['nip'];
- \$jabatan = \$\_POST['jabatan'];
- mysqli\_query(\$koneksi, "UPDATE pegawai SET nama='\$nama', nip='\$nip', jabatan='\$jabatan' WHERE id='\$id'");
- ?>

# Terapkan Update

```
<?php
include 'koneksi.php';
$id      = $_POST['id'];
$nama    = $_POST['nama'];
$nip     = $_POST['nip'];
$jabatan = $_POST['jabatan'];

$ccek = mysqli_query($konek, "SELECT * FROM pegawai WHERE nama='$nama' and nip='$nip' and jabatan='$jabatan'");

if ($ccek->num_rows > 0) {
    // Jika data sudah ada
    echo "<script>
        alert('Tidak Jadi Disimpan, Tidak Ada Perubahan Data!');
        window.location.href = 'edit.php';
    </script>";
} else {

    $update=mysqli_query($konek, "UPDATE pegawai SET nama='$nama', nip='$nip', jabatan='$jabatan' WHERE id='$id'");

    if ($update) {
        echo "<script>
            alert('Data berhasil diupdate!');
            window.location.href = 'edit.php';
        </script>";
    } else {
        echo "<script>
            alert('Gagal mengupdate data: " . mysqli_error($konek) . "');
            window.history.back();
        </script>";
    }
}
?>
```

```
<h2 class="text-primary">Form Edit</h2>
</center>

<div class="container d-flex justify-content-center align-items-center vh-20">
  <form method="post" action="update.php">
    <input type="hidden" name="id" value="<?= htmlspecialchars($data['id']); ?>">
      <div class="row mb-3">
        <label for="nama" class="col-sm-2 col-form-label text-front">Nama</label>
        <div class="col-sm-10">
          <input type="text" name="nama" class="form-control" value="<?= htmlspecialchars($data['nama']); ?>" required autofocus>
        </div>
      </div>
      <div class="row mb-3">
        <label for="nip" class="col-sm-2 col-form-label text-front">NIP</label>
        <div class="col-sm-10">
          <input type="number" name="nip" class="form-control" value="<?= htmlspecialchars($data['nip']); ?>" required>
        </div>
      </div>
      <div class="row mb-3">
        <label for="jabatan" class="col-sm-2 col-form-label text-front">Jabatan</label>
        <div class="col-sm-10">
          <input type="text" name="jabatan" class="form-control" value="<?= htmlspecialchars($data['jabatan']); ?>" required>
        </div>
      </div>
      <div class="text-center">
        <button type="submit" class="btn btn-primary">Update</button>
      </div>
    </form>
  </div>
```

# UPDATE (Edit Data)

[DASHBOARD](#) [FORM](#) [EDIT/HAPUS](#) [TABEL-TABEL](#) [NASKAH PDF](#) [KELUAR](#)

## Latihan Aplikasi Pegawai

### Form Edit

Nama

NIP

Jabatan

© November 2025 — Designed by the Gorontalo IT Team of the Indonesian Quarantine Authority

**BUAT DELETE**

# DELETE (Hapus Data)

- <?php
- include 'koneksi.php';
- \$id = \$\_GET['id'];
- mysqli\_query(\$koneksi, "DELETE FROM pegawai WHERE id='\$id'");
- ?>

# Terapkan Delete

```
<?php
require_once "koneksi.php";
$id = $_GET['id'];

$hapus=mysqli_query($koneksi, "DELETE FROM pegawai WHERE id='$id'");

if ($hapus) {
    echo "<script>
        alert('Data berhasil dihapus!');
        window.location.href = 'edit.php';
    </script>";
} else {
    echo "<script>
        alert('Gagal menghapus data: " . mysqli_error($koneksi) . "');
        window.history.back();
    </script>";
}
?>
```

## TABEL EDIT/HAPUS

Tambah Data

No	Aksi	Nama	NIP	Jabatan
1	<a href="#">Edit</a> <a href="#">Hapus</a>	Nugroho Lejar Hadi Widodo	198403152010121002	Pranata Komputer Mahir
2	<a href="#">Edit</a> <a href="#">Hapus</a>	Hasanuddin	197704182008121002	Paramedik Karantina Hewan Mahir
3	<a href="#">Edit</a> <a href="#">Hapus</a>	Loyis Marali	198408012008011004	Pengendali Hama Penyakit Ikan Ahli Pertama
4	<a href="#">Edit</a> <a href="#">Hapus</a>	Muh. Ardiansyah	199006152015031005	Pengendali Hama Penyakit Ikan Mahir
5	<a href="#">Edit</a> <a href="#">Hapus</a>	Muh. Khurniani Adnan	200303182025061002	Calon Pengendali Hama dan Penyakit Ikan Ahli Pertama

localhost says

Yakin ingin menghapus data ini?

OK

Cancel



## ✅ 1. Website Dokumentasi Resmi PHP

👉 <https://www.php.net>

Cara melihat contoh penggunaan fungsi:

1. Buka halaman utama.

2. Masukkan nama fungsi di kolom search, misalnya:

1. `strlen`

2. `array_push`

3. `preg_match`

3. Setiap halaman fungsi memiliki bagian:

1. **Description**

2. **Parameters**

3. **Return Values**

4. **Examples (CONTOH penggunaan)** → *Inilah yang Anda cari*

Contoh:

<https://www.php.net/strlen>

Di bagian **Examples**, ada kode siap pakai.

## ✓ 2. Daftar Fungsi Berdasarkan Kategori

Di dokumentasi resmi ada kategori seperti:

- **Array Functions**

<https://www.php.net/manual/en/ref.array.php>

- **String Functions**

<https://www.php.net/manual/en/ref.strings.php>

- **Date & Time Functions**

<https://www.php.net/manual/en/ref.datetime.php>

- **Filesystem Functions**

<https://www.php.net/manual/en/ref.filesystem.php>

- **MySQLi Functions**

<https://www.php.net/manual/en/ref.mysqli.php>

- **dll.**

Setiap fungsi dalam kategori ini memiliki contoh lengkap.

### 3. Dokumentasi Bisa Dialihkan ke Bahasa Indonesia

Walaupun tidak 100% lengkap, Anda bisa pilih:

**Manual → Language → Indonesian**

Atau langsung menuju:

<https://www.php.net/manual/id/>

Kemudian cari fungsi — kalau terjemahannya belum ada, akan otomatis mengarah ke versi Inggris.

#### 4. Melihat Contoh Fungsi Lewat CLI PHP (Sangat Berguna untuk Developer)

PHP menyediakan dokumentasi lokal lewat CLI:

```
php --rf strlen
```

Output:

- Deskripsi fungsi
- Parameter
- Return type

Dan jika Anda install **php-doc**, Anda bisa:

```
php --re strlen
```

## 5. Untuk Developer: Lihat Implementasi Asli Fungsi

Karena Anda developer, Anda bisa melihat bagaimana fungsi dibuat di source code PHP:

•Folder: **/ext/**

Misalnya:

- `ext/standard/string.c`
- `ext/array/array.c`
- `ext/json/json.c`

Di situ Anda bisa melihat *internal implementation*.

# FILE SCRIPT

## LATIHAN MEMBUAT APLIKASI KEPEGAWAIN

<https://github.com/rirpad/appkepeg>

Developed by Muhammad Sahrir

طوره محمد شاهرير

Ripakalebbiri pole ri Muhammad Sahrir

Hulato'o lo Muhammad Sahrir

Ames a yamar Muhammad Syahrir

TERIMA KASIH

ODU' OLO