

LAPORAN PRAKTIKUM

PEMROGRAMAN WEB D



**SOFTWARE ENGINEERING
LABORATORY**

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INSTITUT TEKNOLOGI PLN

TEKNIK INFORMATIKA

2025

LAPORAN PRAKTIKUM

From_mahasiswa.php

```
form_mahasiswa.php > ...
1  <?php
2  ?>
3  <!DOCTYPE html>
4  <html lang="id">
5  <head>
6      <meta charset="UTF-8">
7      <title>Form Input Data Mahasiswa</title>
8  </head>
9  <body>
10     <h2>Form Input Data Mahasiswa</h2>
11     <form action="simpan_mahasiswa.php" method="post">
12         <label>NIM</label><br>
13         <input type="text" name="nim" required><br><br>
14
15         <label>Nama</label><br>
16         <input type="text" name="nama" required><br><br>
17
18         <label>Program Studi</label><br>
19         <select name="prodi" required>
20             <option value="">-- Pilih Prodi --</option>
21             <option value="Informatika">Informatika</option>
22             <option value="Sistem Informasi">Sistem Informasi</option>
23             <option value="Teknik Komputer">Teknik Komputer</option>
24             <option value="Lainnya">Lainnya</option>
25         </select><br><br>
26
27         <label>Jenis Kelamin</label><br>
28         <input type="radio" name="jenis_kelamin" value="L" required> Laki-laki
29         <input type="radio" name="jenis_kelamin" value="P" required> Perempuan
30         <br><br>
31
32         <label>Alamat</label><br>
33         <textarea name="alamat" rows="4" cols="40"></textarea><br><br>
34
35         <button type="submit">Simpan</button>
36         <button type="reset">Reset</button>
37     </form>
38
39     <br>
40     <a href="tampil_mahasiswa.php">Lihat Data Mahasiswa</a>
41 </body>
42 </html>
```

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Koneksi.php

```
FTP koneksi.php > ...
1  <?php
2
3  $host      = "localhost";
4  $user       = "root";
5  $password   = "";
6  $dbname     = "db_mahasiswa";
7
8  $koneksi = mysqli_connect(hostname: $host, username: $user, password: $password, database: $dbname);
9
10 if (!$koneksi) {
11     die("Koneksi gagal: " . mysqli_connect_error());
12 }
13 ?>
```

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Simpan_mahasiswa.php

```
FTP simpan_mahasiswa.php > ...
1  <?php
2  include 'koneksi.php';
3
4  $nim          = isset($_POST['nim']) ? trim(string: $_POST['nim']) : '';
5  $nama         = isset($_POST['nama']) ? trim(string: $_POST['nama']) : '';
6  $prodi        = isset($_POST['prodi']) ? trim(string: $_POST['prodi']) : '';
7  $jenis_kelamin = isset($_POST['jenis_kelamin']) ? $_POST['jenis_kelamin'] : '';
8  $alamat        = isset($_POST['alamat']) ? trim(string: $_POST['alamat']) : '';
9
10 if ($nim == '' || $nama == '' || $prodi == '' || $jenis_kelamin == '') {
11     echo "Semua field (kecuali alamat) wajib diisi. <br>";
12     echo "<a href='form_mahasiswa.php'>Kembali ke Form</a>";
13     exit;
14 }
15
16 $nim          = mysqli_real_escape_string(mysql: $koneksi, string: $nim);
17 $nama         = mysqli_real_escape_string(mysql: $koneksi, string: $nama);
18 $prodi        = mysqli_real_escape_string(mysql: $koneksi, string: $prodi);
19 $jenis_kelamin = mysqli_real_escape_string(mysql: $koneksi, string: $jenis_kelamin);
20 $alamat        = mysqli_real_escape_string(mysql: $koneksi, string: $alamat);
21
22 $sql = "INSERT INTO mahasiswa (nim, nama, prodi, jenis_kelamin, alamat)
23 |     VALUES ('$nim', '$nama', '$prodi', '$jenis_kelamin', '$alamat')";
24
25 if (mysqli_query(mysql: $koneksi, query: $sql)) {
26     echo "Data berhasil disimpan.<br>";
27     echo "<a href='tampil_mahasiswa.php'>Lihat Data Mahasiswa</a><br>";
28     echo "<a href='form_mahasiswa.php'>Input Lagi</a>";
29 } else {
30     echo "Error: " . $sql . "<br>" . mysqli_error(mysql: $koneksi);
31     echo "<br><a href='form_mahasiswa.php'>Kembali ke Form</a>";
32 }
33
34 mysqli_close(mysql: $koneksi);
35 ?>
```

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Tampil_mahasiswa

```

    tampil_mahasiswa.php > html > body > table
● 1  <?php
  2  include 'koneksi.php';
  3  $sql   = "SELECT * FROM mahasiswa ORDER BY nim";
  4  $query = mysqli_query(mysql: $koneksi, query: $sql);
  5  ?>
  6  <!DOCTYPE html>
  7  <html lang="id">
  8  <head>
  9    <meta charset="UTF-8">
10    <title>Data Mahasiswa</title>
11  </head>
12  <body>
13    <h2>Data Mahasiswa</h2>
14  <table border="1" cellpadding="8" cellspacing="0">
15    <tr>
16      <th>No</th>
17      <th>NIM</th>
18      <th>Nama</th>
19      <th>Program Studi</th>
20      <th>Jenis Kelamin</th>
21      <th>Alamat</th>
22    </tr>
23  <?php
24  $no = 1;
25  if (mysqli_num_rows(result: $query) > 0) {
26    while ($row = mysqli_fetch_assoc(result: $query)) {
27      echo "<tr>";
28      echo "<td>".$no++. "</td>";
29      echo "<td>".$row['NIM']. "</td>";
30      echo "<td>".$row['Nama']. "</td>";
31      echo "<td>".$row['Prodi']. "</td>";
32      echo "<td>".$row['jenis_kelamin']. "</td>";
33      echo "<td>".$row['Alamat']. "</td>";
34      echo "</tr>";
35    }
  202431110 AbdillahGestaFahrezi
36  } else {
37    echo "<tr><td colspan='6'>Belum ada data.</td></tr>";
38  }
  ?>
</table>
<br>
<a href="form_mahasiswa.php">Kembali ke Form Input</a>
</body>
</html>
<?php
mysqli_close(mysql: $koneksi);
?>
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```

database

The screenshot shows the 'Table structure' tab for the 'mahasiswa' table. The table has five columns: NIM, Nama, Prodi, jenis_kelamin, and Alamat. The 'NIM' column is the primary key (PRIMARY). The data is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	NIM	varchar(15)	utf8mb4_general_ci		No	None			Change Drop More
2	Nama	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
3	Prodi	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
4	jenis_kelamin	enum('L','P')	utf8mb4_general_ci		No	None			Change Drop More
5	Alamat	text	utf8mb4_general_ci		Yes	NULL			Change Drop More

Below the table structure, there is a note: **202431110 AbdillahGestaFahrezi**.

The screenshot shows the 'Browse' tab for the 'mahasiswa' table. The data is as follows:

	NIM	Nama	Prodi	jenis_kelamin	Alamat
1	16198498	Abdillah Gesta Fahrezi	Sistem Informasi	L	xaxX
2	202431110	Abdillah Gesta Fahrezi	Informatika	L	indonesia
3	216156	Abdillah Gesta Fahrezi	Informatika	L	gsgrshs

Below the table, there is a note: **202431110 AbdillahGestaFahrezi**.

Outputnya

Data berhasil disimpan.
[Lihat Data Mahasiswa](#)
[Input Lagi](#)

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Form Input Data Mahasiswa

NIM

Nama

Program Studi

Jenis Kelamin
 Laki-laki Perempuan

Alamat

[Lihat Data Mahasiswa](#)

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A screenshot of a web browser window displaying a table titled "Data Mahasiswa". The table has columns for No, NIM, Nama, Program Studi, Jenis Kelamin, and Alamat. The data is as follows:

No	NIM	Nama	Program Studi	Jenis Kelamin	Alamat
1	16198498	Abdillah Gesta Fahrezi	Sistem Informasi	L	xaxX
2	202431110	Abdillah Gesta Fahrezi	Informatika	L	indonesia
3	2024311111111	Abdillah Gesta Fahrezi	Teknik Komputer	L	mars
4	216156	Abdillah Gesta Fahrezi	Informatika	L	gsgsrshs

[Kembali ke Form Input](#)

The browser's address bar shows "localhost / 127.0.0.1 / db_mahasiswa" and the title "Data Mahasiswa". The taskbar at the bottom of the screen shows various pinned icons and the date/time "03/12/2024 20:29".