

LAPORAN AKHIR PRAKTIKUM

Mata Praktikum : Pemrograman Web
Kelas : 3IA24
Praktikum ke- : 1
Tanggal : 21 November 2023
Materi : CRUD
NPM : 50421704
Nama : Juan Samuel Christopher
Ketua Asisten : Noviyanto Ramadhanu
Nama Asisten :
Paraf Asisten :
Jumlah Lembar : 10



LABORATORIUM TEKNIK INFORMATIKA

UNIVERSITAS GUNADARMA

2023

LISTING

- connect.php

```
<?php
// Informasi koneksi database
$host = "localhost"; // Nama host database
$username = "root"; // Nama pengguna database
$password = ""; // Kata sandi database
$database = "pweb_juan"; // Nama database

// Membuat koneksi ke database
$koneksi = mysqli_connect($host, $username, $password, $database);
?>
```

- create.php

```
<?php
header('Content-Type: application/json'); // Mengatur header untuk mengindikasikan bahwa respon adalah JSON
// Mengizinkan permintaan dari domain React yang berjalan di http://localhost:3000
header('Access-Control-Allow-Origin: http://localhost:3000');
// Mengizinkan metode HTTP yang diizinkan
header('Access-Control-Allow-Methods: GET, POST, PUT, DELETE, OPTIONS');
// Mengizinkan header yang diizinkan
header('Access-Control-Allow-Headers: Content-Type, Authorization');
// Pastikan metode OPTIONS mendapatkan respons yang benar
if ($_SERVER['REQUEST_METHOD'] === 'OPTIONS') {
    http_response_code(200);
    exit;
}
header('Content-Type: application/json'); // Mengatur header untuk mengindikasikan bahwa respon adalah JSON
require('connection.php');

$response = array(); // Inisialisasi array respons

if ($_SERVER['REQUEST_METHOD'] === 'POST') {
    $npm = $_POST['npm'];
    $nama = $_POST['nama'];
    $kelas = $_POST['kelas'];

    $sql = "INSERT INTO mhs_juan (npm, nama, kelas) VALUES ('$npm', '$nama', '$kelas')";

    if (mysqli_query($koneksi, $sql)) {
        $response['status'] = 'success';
        $response['message'] = 'Data berhasil ditambahkan.';
    } else {
        $response['status'] = 'error';
        $response['message'] = 'Error: ' . $sql . '<br>' . mysqli_error($koneksi);
    }
}

mysqli_close($koneksi);

echo json_encode($response); // Mengirimkan respon dalam format JSON
?>
```

- read.php

```
<?php
header('Content-Type: application/json'); // Mengatur header untuk mengindikasikan bahwa respon adalah JSON

// Mengizinkan permintaan dari domain React yang berjalan di http://localhost:3000
header('Access-Control-Allow-Origin: http://localhost:3000');

// Mengizinkan metode HTTP yang diizinkan
header('Access-Control-Allow-Methods: GET, POST, PUT, DELETE, OPTIONS');

// Mengizinkan header yang diizinkan
header('Access-Control-Allow-Headers: Content-Type, Authorization');

// Pastikan metode OPTIONS mendapatkan respons yang benar
if ($_SERVER['REQUEST_METHOD'] === 'OPTIONS') {
    http_response_code(200);
    exit;
}

// Lanjutkan dengan pemrosesan permintaan
require('connection.php');

$response = array(); // Inisialisasi array respons

if ($_SERVER['REQUEST_METHOD'] === 'GET') {
    $sql = "SELECT * FROM mhs_juan";
    $result = mysqli_query($koneksi, $sql);

    if (mysqli_num_rows($result) > 0) {
        $data = array();

        while ($row = mysqli_fetch_assoc($result)) {
            $item = array(
                "id" => $row['id'],
                "npm" => $row['npm'],
                "nama" => $row['nama'],
                "kelas" => $row['kelas']
            );
            $data[] = $item;
        }

        $response['status'] = 'success';
        $response['data'] = $data;
    } else {
        $response['status'] = 'error';
        $response['message'] = 'Tidak ada data dalam tabel mhs_juan.';
    }
} else {
    $response['status'] = 'error';
    $response['message'] = 'Metode HTTP tidak valid.';
}

mysqli_close($koneksi);

echo json_encode($response); // Mengirimkan respon dalam format JSON
?>
```

- read_by_id.php

```
<?php
header('Content-Type: application/json'); // Mengatur header untuk mengindikasikan bahwa respon adalah JSON

// Mengizinkan permintaan dari domain React yang berjalan di http://localhost:3000
header('Access-Control-Allow-Origin: http://localhost:3000');

// Mengizinkan metode HTTP yang diizinkan
header('Access-Control-Allow-Methods: GET, POST, PUT, DELETE, OPTIONS');

// Mengizinkan header yang diizinkan
header('Access-Control-Allow-Headers: Content-Type, Authorization');

// Pastikan metode OPTIONS mendapatkan respons yang benar
if ($_SERVER['REQUEST_METHOD'] === 'OPTIONS') {
    http_response_code(200);
    exit;
}

header('Content-Type: application/json'); // Mengatur header untuk mengindikasikan bahwa respon adalah JSON
require('connection.php');

$response = array(); // Inisialisasi array respons

if ($_SERVER['REQUEST_METHOD'] === 'GET') {
    // Mengambil ID dari parameter URL
    $url = parse_url($_SERVER['REQUEST_URI'], PHP_URL_PATH);
    $parts = explode('/', $url);
    $id = end($parts);

    // Pastikan ID adalah angka (melakukan validasi jika perlu)
    if (is_numeric($id)) {
        $sql = "SELECT * FROM mhs_juan WHERE id='$id'";
        $result = mysqli_query($koneksi, $sql);

        if (mysqli_num_rows($result) > 0) {
            $row = mysqli_fetch_assoc($result);
            $response['status'] = 'success';
            $response['data'] = $row;
        } else {
            $response['status'] = 'error';
            $response['message'] = 'Data dengan ID ' . $id . ' tidak ditemukan.';
        }
    } else {
        $response['status'] = 'error';
        $response['message'] = 'ID tidak valid.';
    }
} else {
    $response['status'] = 'error';
    $response['message'] = 'Metode HTTP tidak valid.';
}

mysqli_close($koneksi);

echo json_encode($response); // Mengirimkan respon dalam format JSON
?>
```

- update.php

```
<?php
header('Content-Type: application/json'); // Mengatur header untuk mengindikasikan bahwa respon adalah JSON

// Mengizinkan permintaan dari domain React yang berjalan di http://localhost:3000
header('Access-Control-Allow-Origin: http://localhost:3000');

// Mengizinkan metode HTTP yang diizinkan
header('Access-Control-Allow-Methods: GET, POST, PUT, DELETE, OPTIONS');

// Mengizinkan header yang diizinkan
header('Access-Control-Allow-Headers: Content-Type, Authorization');

// Pastikan metode OPTIONS mendapatkan respons yang benar
if ($_SERVER['REQUEST_METHOD'] === 'OPTIONS') {
    http_response_code(200);
    exit;
}

header('Content-Type: application/json'); // Mengatur header untuk mengindikasikan bahwa respon adalah JSON
require('connection.php');

$response = array(); // Inisialisasi array respons

if ($_SERVER['REQUEST_METHOD'] === 'PUT') {
    // Mengambil ID dari parameter URL
    $url = parse_url($_SERVER['REQUEST_URI'], PHP_URL_PATH);
    $parts = explode('/', $url);
    $id = end($parts);

    // Pastikan ID adalah angka (melakukan validasi jika perlu)
    if (!is_numeric($id)) {
        $put_data = json_decode(file_get_contents('php://input'), true);

        if (isset($put_data['npm'])) {
            $npm = $put_data['npm'];
        } else {
            $npm = ''; // Atur ke nilai kosong jika tidak ada perubahan
        }

        if (isset($put_data['nama'])) {
            $nama = $put_data['nama'];
        } else {
            $nama = ''; // Atur ke nilai kosong jika tidak ada perubahan
        }

        if (isset($put_data['kelas'])) {
            $kelas = $put_data['kelas'];
        } else {
            $kelas = ''; // Atur ke nilai kosong jika tidak ada perubahan
        }

        $sql = "UPDATE mhs_juan SET npm='$npm', nama='$nama', kelas='$kelas' WHERE id='$id'";

        if (mysqli_query($koneksi, $sql)) {
            $response['status'] = 'success';
            $response['message'] = "Data dengan ID ' . $id . ' berhasil diperbarui.";
        } else {
            $response['status'] = 'error';
            $response['message'] = "Error: ' . $sql . '<br> ' . mysqli_error($koneksi);
        }
    } else {
        $response['status'] = 'error';
        $response['message'] = 'ID tidak valid.';
    }
} else {
    $response['status'] = 'error';
    $response['message'] = 'Metode HTTP tidak valid.';
}

mysqli_close($koneksi);

echo json_encode($response); // Mengirimkan respon dalam format JSON
?>
```

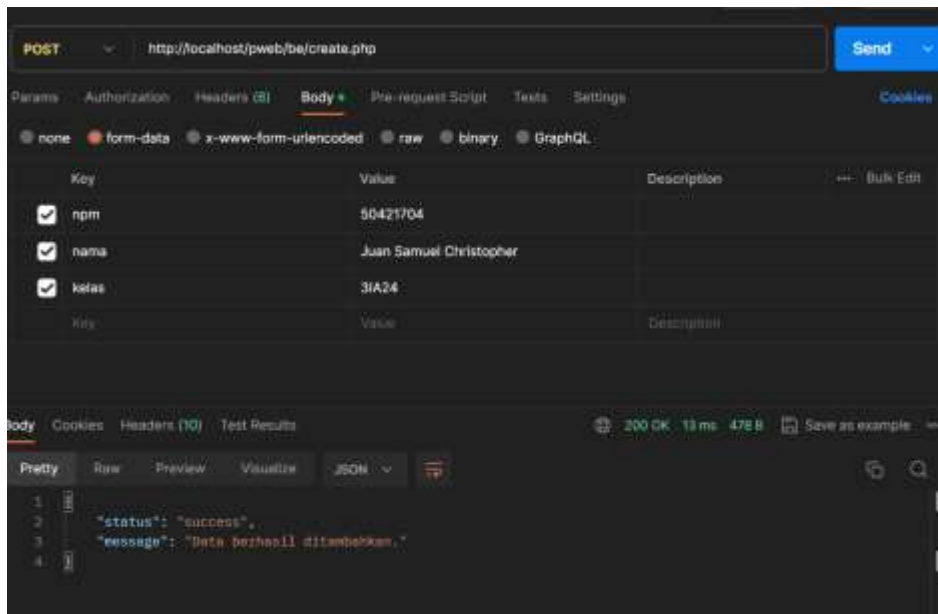
- create table localhost/phpmyadmin

Name	Type	Length/Values	Default	Collation	Attributes	Null	Index	A
id	INT		None			<input type="checkbox"/>	PRIMARY	<input checked="" type="checkbox"/>
Pick from Central Columns								
npm	VARCHAR	10	None			<input type="checkbox"/>		<input type="checkbox"/>
Pick from Central Columns								
nama	VARCHAR	30	None			<input type="checkbox"/>		<input type="checkbox"/>
Pick from Central Columns								
kolias	VARCHAR	5	None			<input type="checkbox"/>		<input type="checkbox"/>
Pick from Central Columns								

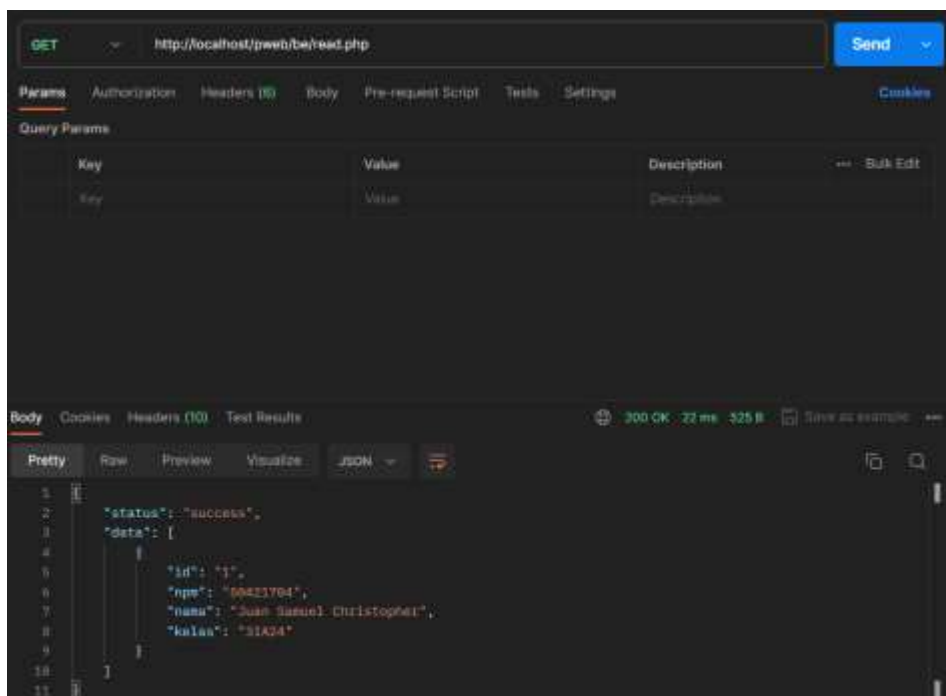
OUTPUT

POSTMAN

- create.php



- read.php



- `read_by_id.php`

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** `http://localhost/pweb/be/read_by_id.php/1`
- Send Button:** A blue button labeled "Send".
- Params Tab:** The "Params" tab is selected, showing a table for Query Params with columns: Key, Value, Description, and Bulk Edit. The table is currently empty.
- Body Tab:** The "Body" tab is selected, showing the response in JSON format. The response is:

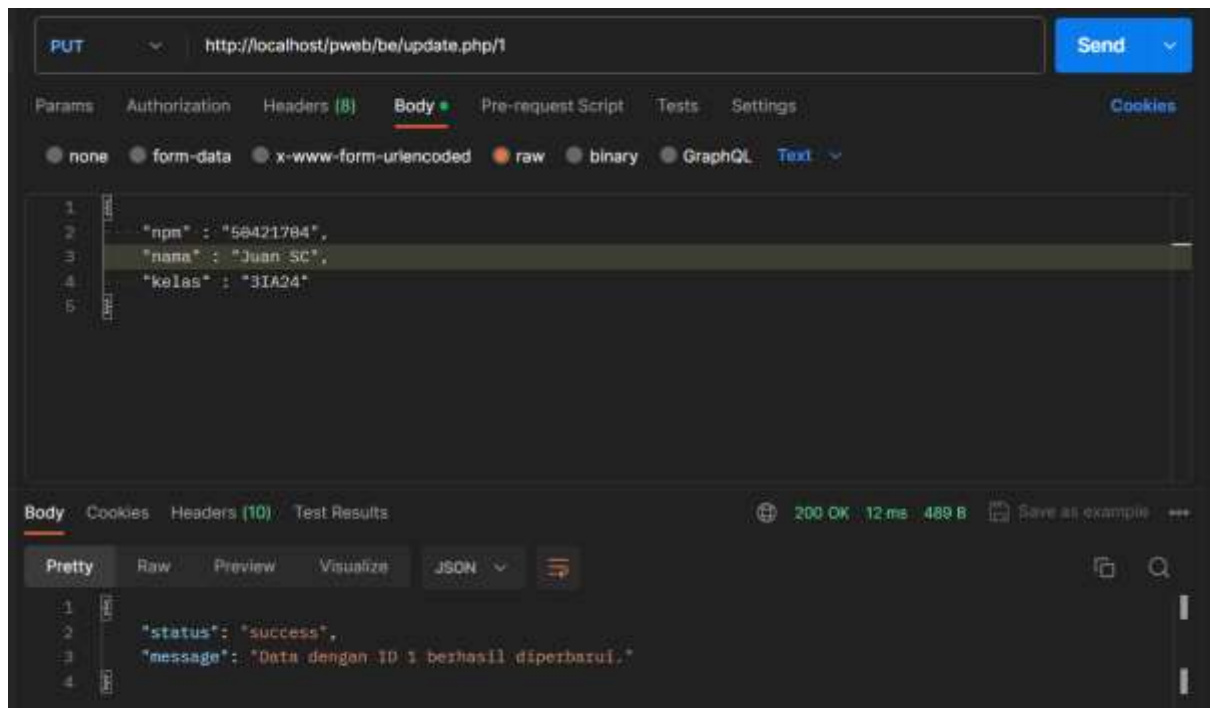
```
{  "status": "success",  "data": {    "id": "1",    "npm": "58421764",    "name": "Juan Samuel Christopher",    "kelas": "31A24"  }}
```
- Status Bar:** Shows "200 OK", "14 ms", and "534 B". There are also buttons for "Save as example" and a menu icon.

The screenshot shows a REST client interface with the following details:

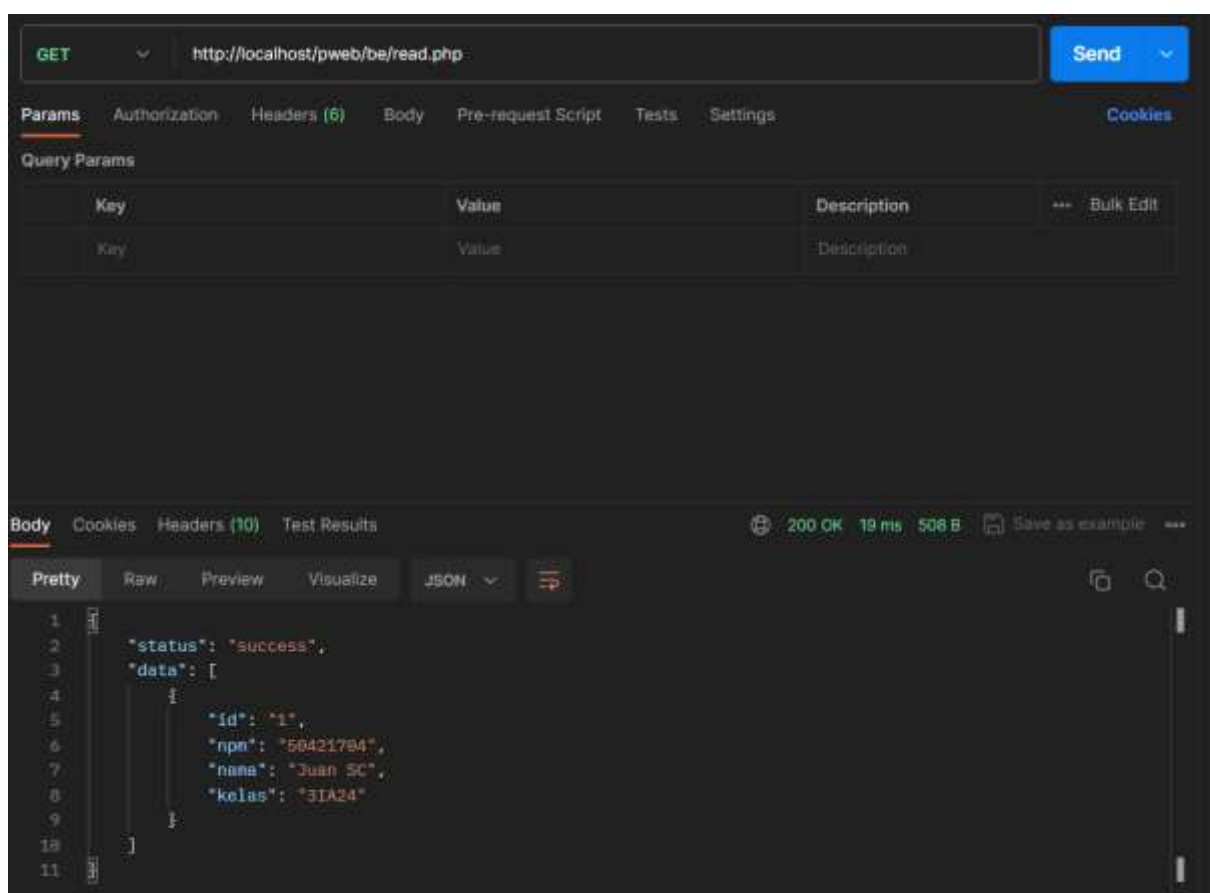
- Method:** GET
- URL:** `http://localhost/pweb/be/read_by_id.php/2`
- Send Button:** A blue button labeled "Send".
- Params Tab:** The "Params" tab is selected, showing a table for Query Params with columns: Key, Value, Description, and Bulk Edit. The table is currently empty.
- Body Tab:** The "Body" tab is selected, showing the response in JSON format. The response is:

```
{  "status": "error",  "message": "Data dengan ID 2 tidak ditemukan."}
```
- Status Bar:** Shows "200 OK", "9 ms", and "463 B". There are also buttons for "Save as example" and a menu icon.

- update.php



- read.php setelah di update data



- localhost/phpMyAdmin

The screenshot displays the phpMyAdmin web interface. On the left, a sidebar shows the database structure with 'pweb_juan' selected and 'mhs_juan' highlighted. The main panel shows the 'Table: mhs_juan' view. A yellow status bar indicates 'Showing rows 0 - 0 (1 total, Query took 0.0007 seconds.)'. Below this, the SQL query 'SELECT * FROM `mhs_juan`' is shown. A table of results is displayed with one row: id 1, npm 50421704, nama Juan Samuel Christopher, and kelas 3IA24. The interface includes various navigation and action buttons like 'Browse', 'Structure', 'SQL', 'Search', 'Insert', 'Export', and 'Import'.

Server: 127.0.0.1 -> Database: pweb_juan -> Table: mhs_juan

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 - New
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- test

Showing rows 0 - 0 (1 total, Query took 0.0007 seconds.)

SELECT * FROM `mhs_juan`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

	id	npm	nama	kelas
<input type="checkbox"/>	1	50421704	Juan Samuel Christopher	3IA24

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query