ACTIVITY PERTEMUAN 4

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NPM : 51422161

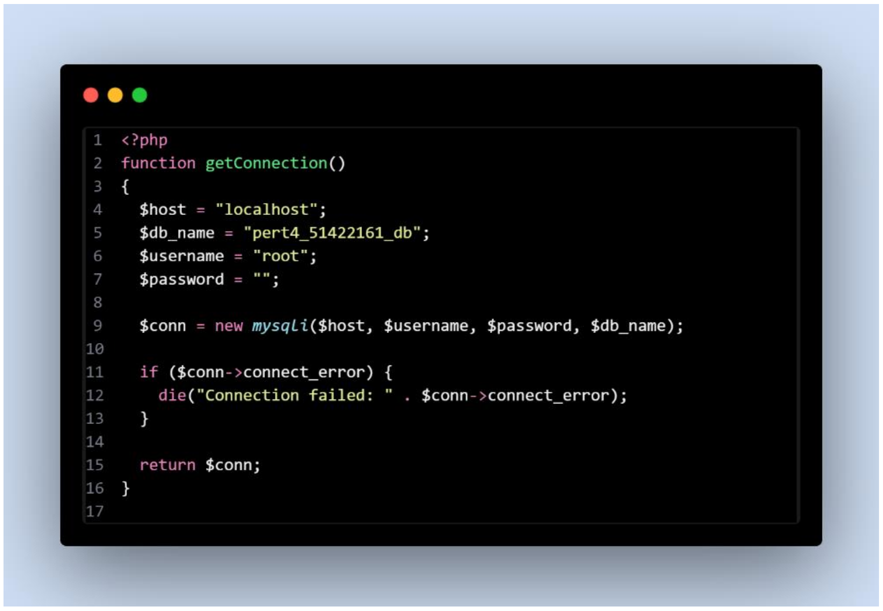
KELAS : 3IA11

MATERI : PHP DAN MYSQL

MATA PRAKTIKUM : PEMOGRAMAN WEBSITE

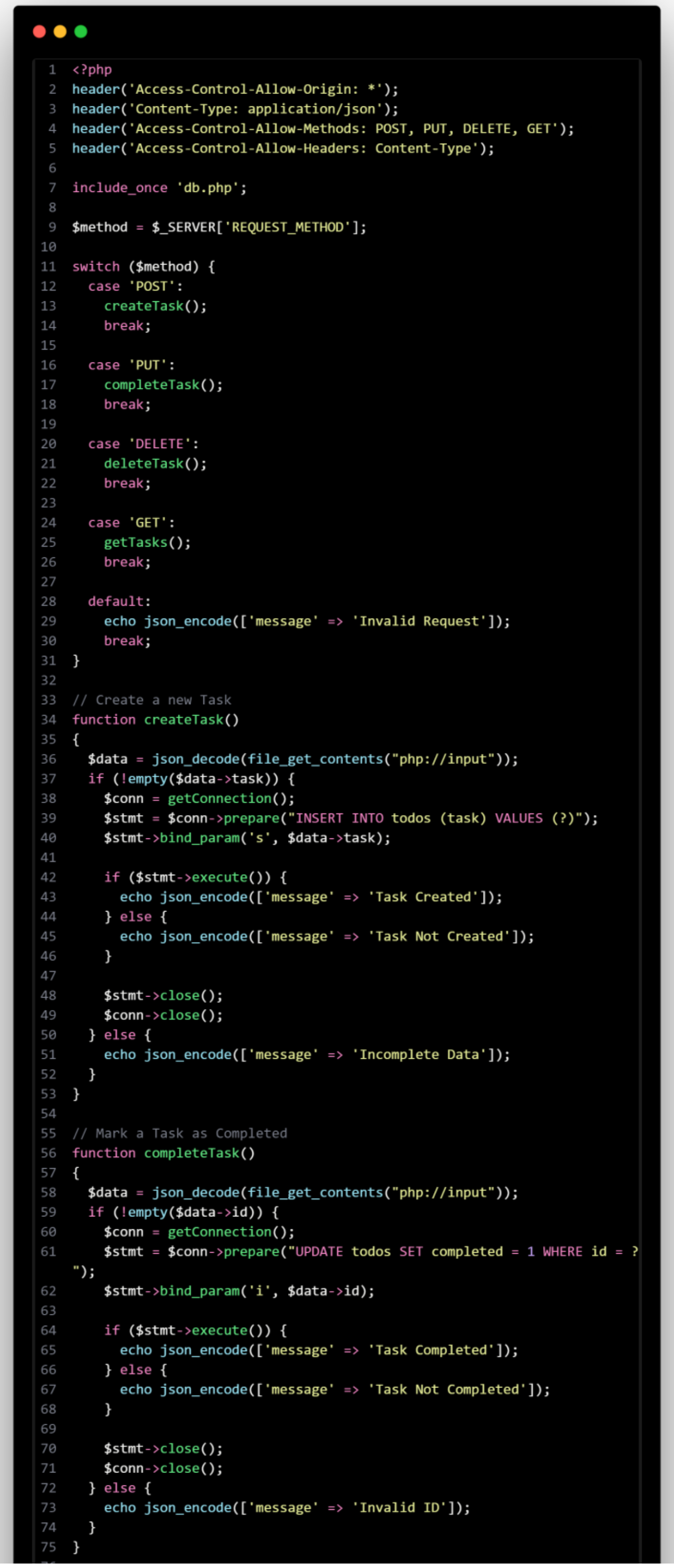
(Screenshoot langkah-langkah sesuai video pembelajaran dan jelaskan dengan ringkas)

db.php

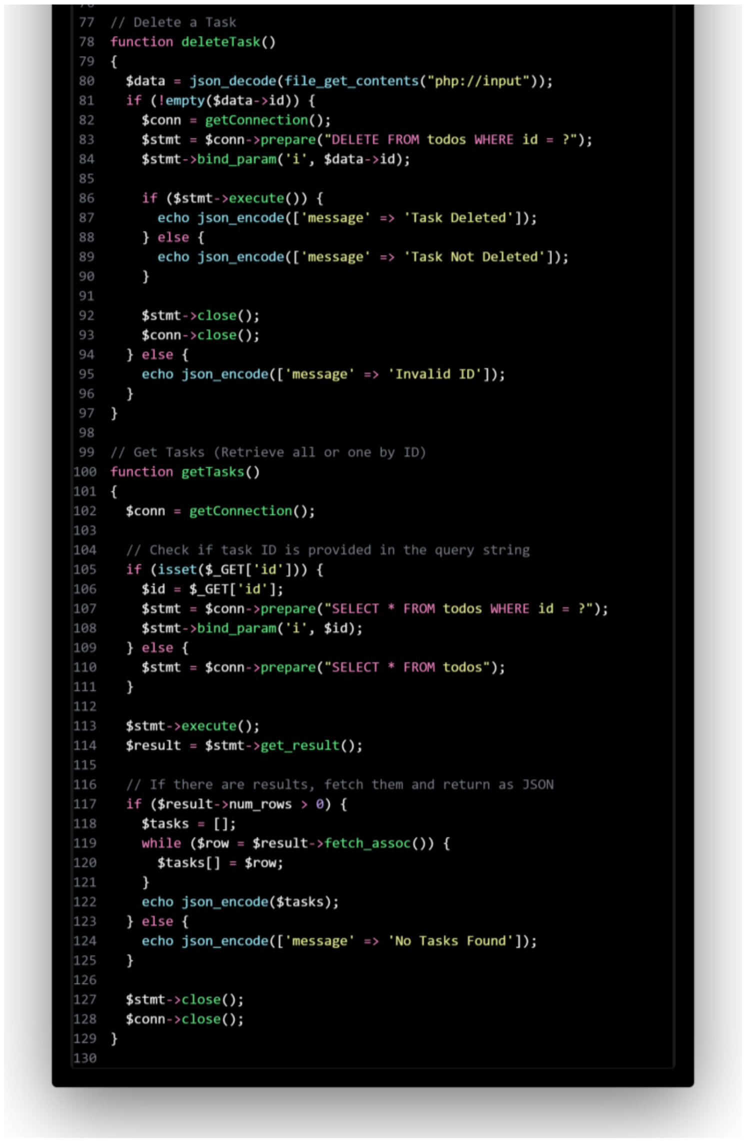


```php
<?php
function getConnection()
{
  $host = "localhost";
  $db_name = "pert4_51422161_db";
  $username = "root";
  $password = "";

  $conn = new mysqli($host, $username, $password, $db_name);

  if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
  }

  return $conn;
}
```

Index.php

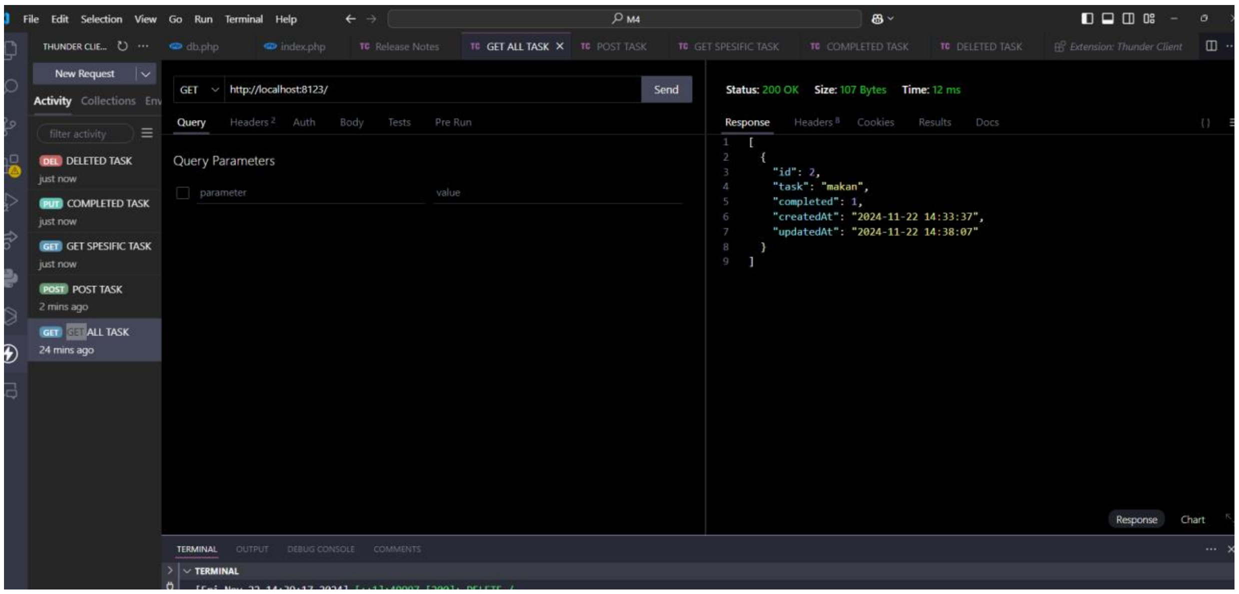


```php
<?php
header('Access-Control-Allow-Origin: *');
header('Content-Type: application/json');
header('Access-Control-Allow-Methods: POST, PUT, DELETE, GET');
header('Access-Control-Allow-Headers: Content-Type');

include_once 'db.php';

$method = $_SERVER['REQUEST_METHOD'];

switch ($method) {
  case 'POST':
    createTask();
    break;

  case 'PUT':
    completeTask();
    break;

  case 'DELETE':
    deleteTask();
    break;

  case 'GET':
    getTasks();
    break;

  default:
    echo json_encode(['message' => 'Invalid Request']);
    break;
}

// Create a new Task
function createTask()
{
  $data = json_decode(file_get_contents("php://input"));
  if (!empty($data->task)) {
    $conn = getConnection();
    $stmt = $conn->prepare("INSERT INTO todos (task) VALUES (?)");
    $stmt->bind_param('s', $data->task);

    if ($stmt->execute()) {
      echo json_encode(['message' => 'Task Created']);
    } else {
      echo json_encode(['message' => 'Task Not Created']);
    }

    $stmt->close();
    $conn->close();
  } else {
    echo json_encode(['message' => 'Incomplete Data']);
  }
}

// Mark a Task as Completed
function completeTask()
{
  $data = json_decode(file_get_contents("php://input"));
  if (!empty($data->id)) {
    $conn = getConnection();
    $stmt = $conn->prepare("UPDATE todos SET completed = 1 WHERE id = ?");
    $stmt->bind_param('i', $data->id);

    if ($stmt->execute()) {
      echo json_encode(['message' => 'Task Completed']);
    } else {
      echo json_encode(['message' => 'Task Not Completed']);
    }

    $stmt->close();
    $conn->close();
  } else {
    echo json_encode(['message' => 'Invalid ID']);
  }
}
```



```php
// Delete a Task
function deleteTask()
{
  $data = json_decode(file_get_contents("php://input"));
  if (!empty($data->id)) {
    $conn = getConnection();
    $stmt = $conn->prepare("DELETE FROM todos WHERE id = ?");
    $stmt->bind_param('i', $data->id);

    if ($stmt->execute()) {
      echo json_encode(['message' => 'Task Deleted']);
    } else {
      echo json_encode(['message' => 'Task Not Deleted']);
    }

    $stmt->close();
    $conn->close();
  } else {
    echo json_encode(['message' => 'Invalid ID']);
  }
}

// Get Tasks (Retrieve all or one by ID)
function getTasks()
{
  $conn = getConnection();

  // Check if task ID is provided in the query string
  if (isset($_GET['id'])) {
    $id = $_GET['id'];
    $stmt = $conn->prepare("SELECT * FROM todos WHERE id = ?");
    $stmt->bind_param('i', $id);
  } else {
    $stmt = $conn->prepare("SELECT * FROM todos");
  }

  $stmt->execute();
  $result = $stmt->get_result();

  // If there are results, fetch them and return as JSON
  if ($result->num_rows > 0) {
    $tasks = [];
    while ($row = $result->fetch_assoc()) {
      $tasks[] = $row;
    }
    echo json_encode($tasks);
  } else {
    echo json_encode(['message' => 'No Tasks Found']);
  }

  $stmt->close();
  $conn->close();
}
```

Get all task

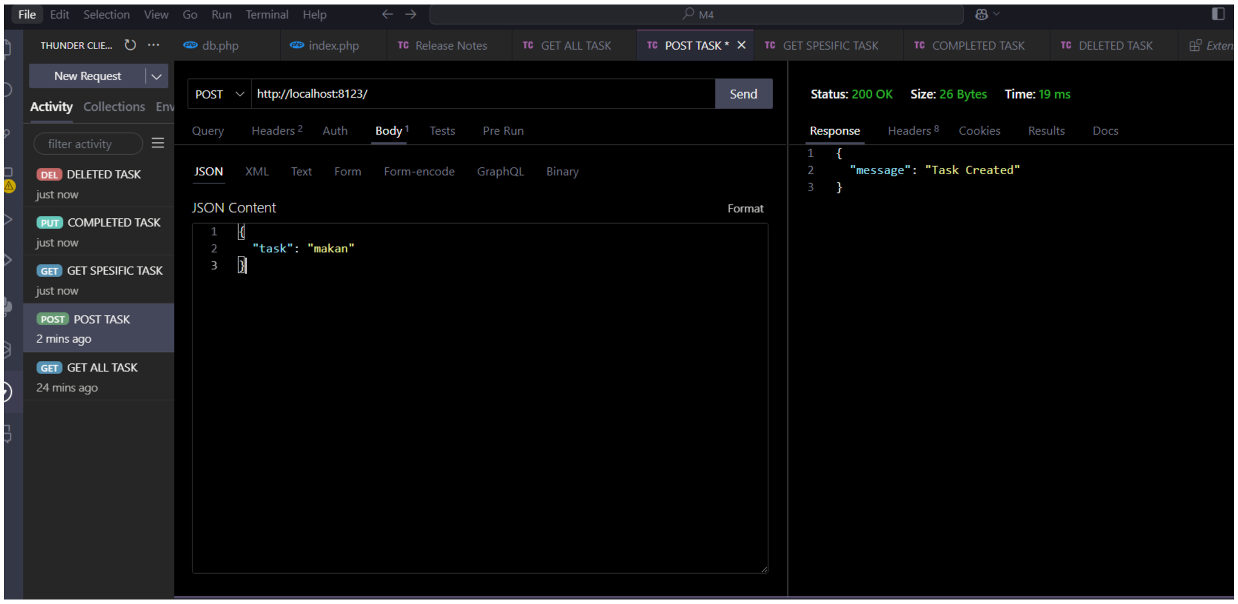

File Edit Selection View Go Run Terminal Help
M4
THUNDER CLIE...
db.php
index.php
Release Notes
GET ALL TASK
POST TASK
GET SPESIFIC TASK
COMPLETED TASK
DELETED TASK
Extension: Thunder Client
New Request
Activity Collections Env
filter activity
DEL DELETED TASK just now
PUT COMPLETED TASK just now
GET GET SPESIFIC TASK just now
POST POST TASK 2 mins ago
GET GET ALL TASK 24 mins ago
Send
Query Headers 2 Auth Body Tests Pre Run
Query Parameters
parameter value
Response Headers 8 Cookies Results Docs
Response Chart
TERMINAL OUTPUT DEBUG CONSOLE COMMENTS
TERMINAL

GET http://localhost:8123/

Status: 200 OK Size: 107 Bytes Time: 12 ms

```json
[
  {
    "id": 2,
    "task": "makan",
    "completed": 1,
    "createdAt": "2024-11-22 14:33:37",
    "updatedAt": "2024-11-22 14:38:07"
  }
]
```

POST TASK



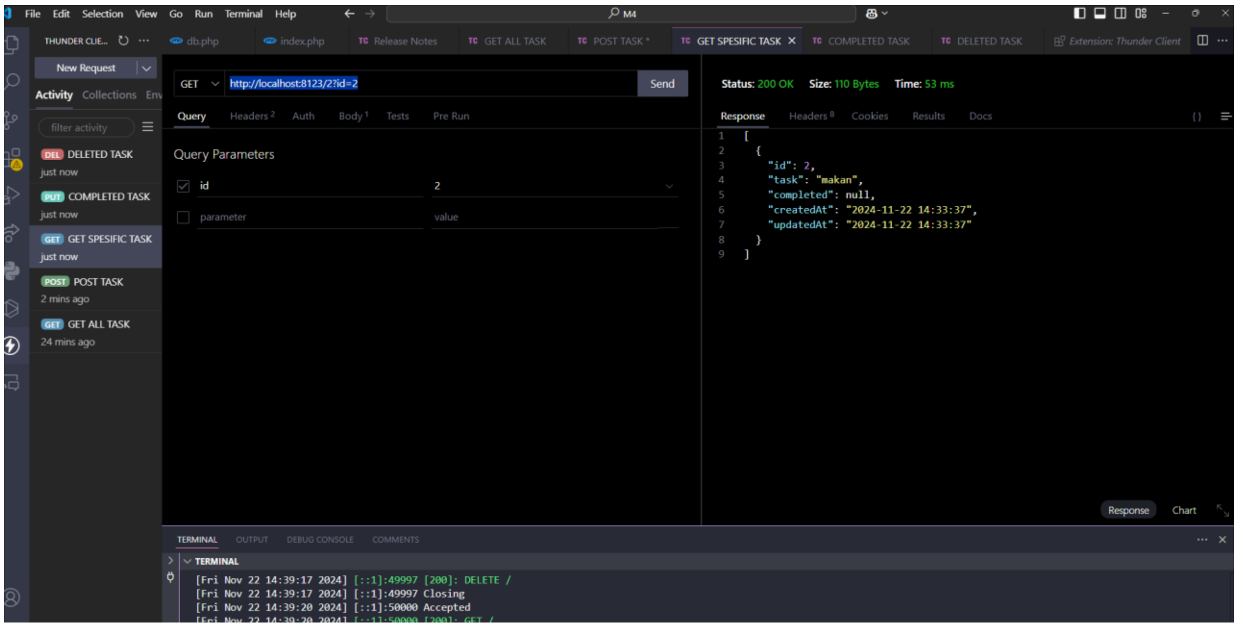
POST http://localhost:8123/

```
{
    "task": "makan"
}
```

Status: 200 OK Size: 26 Bytes Time: 19 ms

```
{
    "message": "Task Created"
}
```

GET SPESIFIC TASK



GET http://localhost:8123/?id=2

Query Parameters

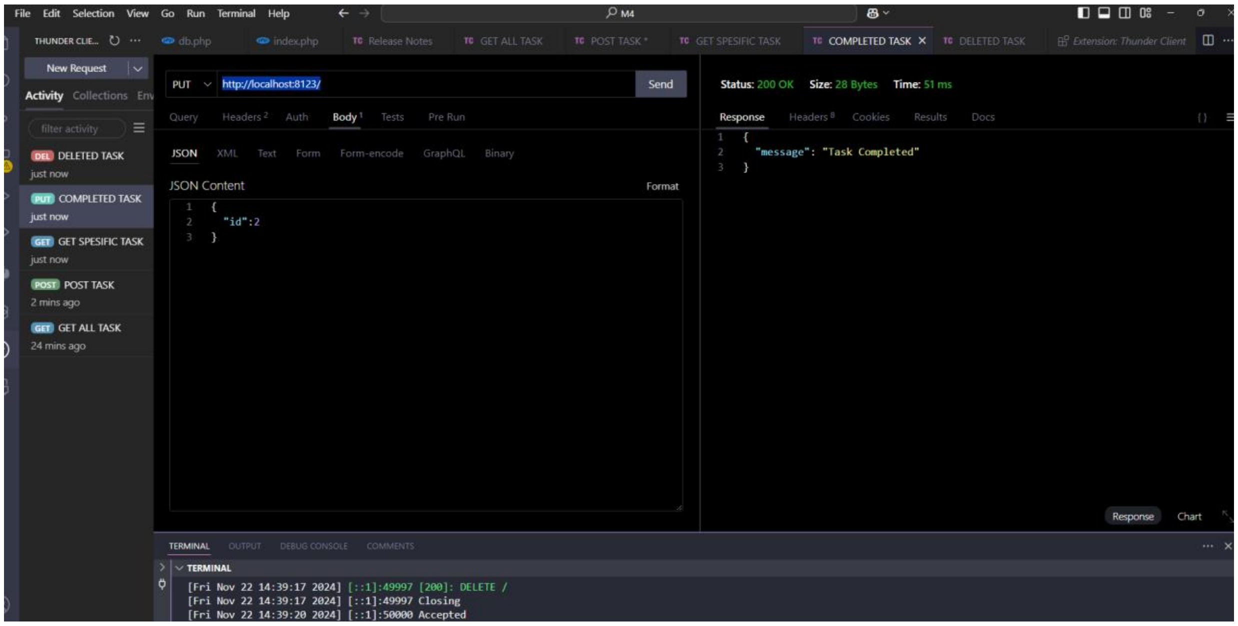
id	2

Status: 200 OK Size: 110 Bytes Time: 53 ms

```
[
  {
    "id": 2,
    "task": "makan",
    "completed": null,
    "createdAt": "2024-11-22 14:33:37",
    "updatedAt": "2024-11-22 14:33:37"
  }
]
```

```
[Fri Nov 22 14:39:17 2024] [::1]:49997 [200]: DELETE /
[Fri Nov 22 14:39:17 2024] [::1]:49997 Closing
[Fri Nov 22 14:39:20 2024] [::1]:50000 Accepted
```

COMPLETED TASK



PUT http://localhost:8123/

JSON Content

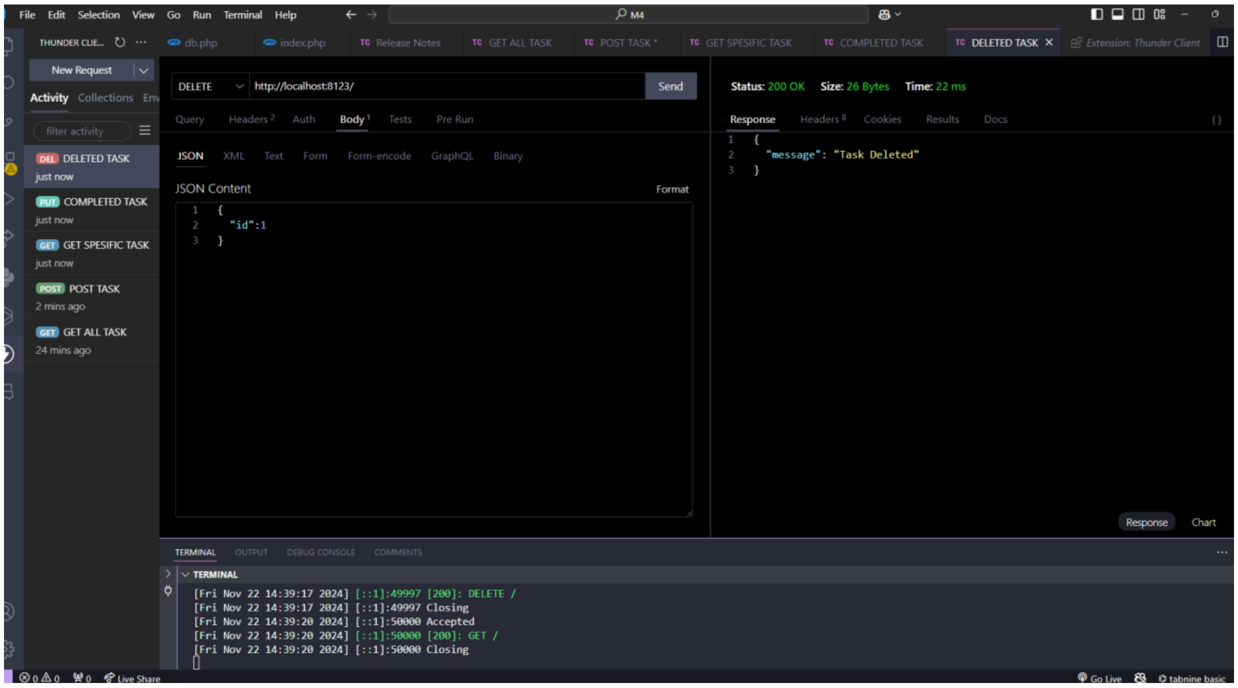
```
{
  "id":2
}
```

Status: 200 OK Size: 28 Bytes Time: 51 ms

```
{
  "message": "Task Completed"
}
```

```
[Fri Nov 22 14:39:17 2024] [::1]:49997 [200]: DELETE /
[Fri Nov 22 14:39:17 2024] [::1]:49997 Closing
[Fri Nov 22 14:39:20 2024] [::1]:50000 Accepted
```

DELETED TASK



DELETE http://localhost:8123/

JSON Content

```
{
  "id":1
}
```

Status: 200 OK Size: 26 Bytes Time: 22 ms

```
{
  "message": "Task Deleted"
}
```

```
[Fri Nov 22 14:39:17 2024] [::1]:49997 [200]: DELETE /
[Fri Nov 22 14:39:17 2024] [::1]:49997 Closing
[Fri Nov 22 14:39:20 2024] [::1]:50000 Accepted
[Fri Nov 22 14:39:20 2024] [::1]:50000 [200]: GET /
[Fri Nov 22 14:39:20 2024] [::1]:50000 Closing
```