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Kelas : Web C

Link : https://github.com/FaizDiandraMaulana262/pemrograman_web/tree/master/modul5/tugas

Penjelasan :

- Class Database.php

```
<?php

namespace Config;

class Database{
    public $host = "localhost";
    public $user = "root";
    public $password = "";
    public $database_name = "praktikum";
    public $port = 3306;
}

?>
```

Melakukan koneksi pada Database.

- Class Product.php

```
include "Config/Database.php";

use Config\Database;
use mysqli;

class Product extends Database{
    public $conn;

    public function __construct()
    {
        $this->conn = new mysqli($this->host, $this->user, $this->password, $this->database_name, $this->port);

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

    public function findAll(){
        $sql = "SELECT * FROM products";
        $result = $this->conn->query($sql);
        // var_dump($result);
        // die;
        $this->conn->close();
        $data = [];

        while($row = $result->fetch_assoc()){
            $data[] = $row;
        }
    }
}
```

Melakukan pemanggilan dan pengoprasian pada tabel products yang berada pada database.

- Class ProductController.php

```
<?php

namespace Controller;

include "Traits/ApiResponseFormatter.php";
include "Models/Product.php";

use Models\Product;
use Traits\ApiResponseFormatter;

class ProductController{
    use ApiResponseFormatter;

    public function index(){
        $productModel = new Product();
        $response = $productModel->findAll();
        return $this->apiResponse(200, "success", $response);
    }

    public function getById($id){
        $productModel = new Product();
        $response = $productModel->findById($id);
        return $this->apiResponse(200, "success", $response);
    }

    public function insert(){
        $jsonInput = file_get_contents("php://input");
        $inputData = json_decode($jsonInput, true);

        if(json_last_error()){
```

Melakukan pemanggilan data dari model, dan melakukan return ketampilan utama.

- Class ApiResponseFormatter.php

```
<?php

namespace Traits;

trait ApiResponseFormatter{
    public function apiResponse($code = 200, $message = "success", $data = []){
        return json_encode([
            "code" => $code,
            "message" => $message,
            "data" => $data
        ]);
    }
}

?>
```

Membuat format return pada class controller.

- Class main.php

```
<?php
header("Content-Type: application/json; character=UTF-8");

include "Routes/ProductRoutes.php";

use Routes\ProductRoutes;

$method = $_SERVER['REQUEST_METHOD'];

$path = parse_url($_SERVER['REQUEST_URI'], PHP_URL_PATH);

$productRoute = new ProductRoutes();
$productRoute->handle($method, $path);
```

main.php sebagai tampilan, memanggil class controller untuk melakukan pengoprasian data tergantung method, dan path.