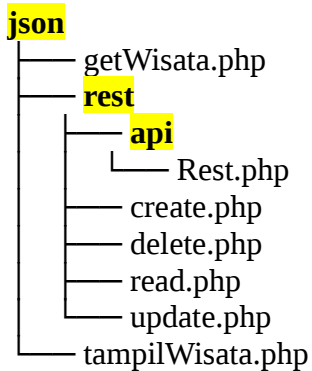


# Praktikum 3:

## PHP CRUD REST API SEDERHANA

### ( Membuat API Rest)

Berikut struktur file & direktori project “json”



**xxx** = folder

Simpan file Rest.php di folder “rest/api” pada folder project pertemuan sebelumnya (c:\xampp\htdocs\json atau /var/www/html/json)

Class Rest.php terdiri dari beberapa fungsi, yaitu:

- \_\_construct() => membuat koneksi ke server database
- getWisata(\$wstId) => melayani request ambil data (READ)
- insertWisata(\$wstData) => melayani request tambah data (CREATE)
- updateWisata(\$wstData) => melayani request perbaiki data (UPDATE)
- deleteWisata(\$wstId) => melayani request hapus data (DELETE)

### Skrip Utama Class:

```
<?php
class Rest{
    private $host = 'localhost';
    private $user = 'root';
    private $password = "";
    private $database = "json";
    private $wstTable = 'wisata';
    private $dbConnect = false;

    // skrip fungsi-fungsi letakkan/sisipkan disini

}
?>
```

### **Skrip fungsi \_\_construct():**

```
public function __construct(){
    if(!$this->dbConnect){
        $conn = new mysqli($this->host, $this->user, $this->password, $this->database);
        if($conn->connect_error){
            die("Error failed to connect to MySQL: " . $conn->connect_error);
        }else{
            $this->dbConnect = $conn;
        }
    }
}
```

### **Skrip fungsi getWisata(\$wstId):**

```
public function getWisata($wstId) {
    $sqlQuery = '';
    if($wstId)
        $sqlQuery = "WHERE id_wisata = '".$wstId."'";
    }
    $wstQuery = "
        SELECT id_wisata, kota, landmark, tarif
        FROM ".$this->wstTable." $sqlQuery
        ORDER BY id_wisata ASC";
    $resultData = mysqli_query($this->dbConnect, $wstQuery);
    $wstData = array();
    while( $wstRecord = mysqli_fetch_assoc($resultData) ) {
        $wstData[] = $wstRecord;
    }
    header('Content-Type: application/json');
    echo json_encode($wstData);
}
```

### **Skrip fungsi insertWisata(\$wstData):**

```
public function insertWisata($wstData){
    $wstKota=$wstData["kota"];
    $wstLandmark=$wstData["landmark"];
    $wstTarif=$wstData["tarif"];

    $wstQuery="
    INSERT INTO ".$this->wstTable."
    SET kota='".$wstKota."', landmark='".$wstLandmark."', tarif='".$wstTarif.'";

    mysqli_query($this->dbConnect, $wstQuery);
    if(mysqli_affected_rows($this->dbConnect) > 0) {
        $message = "wisata sukses dibuat.";
        $status = 1;
    } else {
        $message = "wisata gagal dibuat.";
        $status = 0;
    }
    $wstResponse = array(
        'status' => $status,
        'status_message' => $message
    );
    header('Content-Type: application/json');
    echo json_encode($wstResponse);
}
```

### **Skrip fungsi updateWisata(\$wstData):**

```
public function updateWisata($wstData){
    if($wstData["id"]) {
        $wstKota=$wstData["kota"];
        $wstLandmark=$wstData["landmark"];
        $wstTarif=$wstData["tarif"];

        $wstQuery="
            UPDATE ".$this->wstTable."
            SET kota='".$wstKota."', landmark='".$wstLandmark."', tarif='".$wstTarif.'";
    }
```

```

        WHERE id_wisata = '". $wstData["id"]."';

mysqli_query($this->dbConnect, $wstQuery);
if(mysqli_affected_rows($this->dbConnect) > 0) {
    $message = "wisata sukses diperbaiki.";
    $status = 1;
} else {
    $message = "wisata gagal diperbaiki.";
    $status = 0;
}
} else {
    $message = "Invalid request.";
    $status = 0;
}
}
$wstResponse = array(
    'status' => $status,
    'status_message' => $message
);
header('Content-Type: application/json');
echo json_encode($wstResponse);
}

```

### **Skrip fungsi deleteWisata(\$wstId):**

```

public function deleteWisata($wstId) {
    if($wstId) {
        $wstQuery = "
            DELETE FROM ".$this->wstTable."
            WHERE id_wisata = '". $wstId."'
            ORDER BY id_wisata DESC";

        mysqli_query($this->dbConnect, $wstQuery);
        if(mysqli_affected_rows($this->dbConnect) > 0) {
            $message = "wisata sukses dihapus.";
            $status = 1;
        } else {
            $message = "wisata gagal dihapus.";
            $status = 0;
        }
    } else {
        $message = "Invalid request.";
        $status = 0;
    }
}
$wstResponse = array(
    'status' => $status,
    'status_message' => $message
);
header('Content-Type: application/json');
echo json_encode($wstResponse);
}

```

Skrip fungsi diatas disisipkan/diletakkan di dalam class Rest(), Ringkasannya sebagai berikut:

```
1  <?php
2  class Rest{
3      private $host = 'localhost';
4      private $user = 'root';
5      private $password = "root";
6      private $database = "json";
7      private $wstTable = 'wisata';
8      private $dbConnect = false;
9
10 > public function __construct(){=
20
21 > public function getWisata($wstId) {=
38
39 > public function insertWisata($wstData){=
63
64 > public function updateWisata($wstData){=
94
95 > public function deleteWisata($wstId) {=
120 }
121 ?>
```