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API documentation

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RESTful API Documentation

Overview

This RESTful API allows users to perform CRUD (Create, Read, Update, Delete) operations on records stored in a database table specified by the **\$tableName** variable. Records in the table have an 'id', 'first_name', 'last_name', and 'email' fields.

Base URL

The base URL for accessing this API is not specified in the provided code and should be determined based on your server configuration.

API Endpoints

1. Retrieve Records (GET)

Retrieve All Records

- **URL:** /api.php
- **Method:** GET
- **Description:** Retrieve all records from the specified table.
- **Parameters:** None
- **Response:**
 - 200 OK: An array of records in JSON format.
 - 404 Not Found: If no records are found.

Retrieve a Single Record

- **URL:** /api.php?id={record_id}
- **Method:** GET
- **Description:** Retrieve a single record by its 'id' field.
- **Parameters:**
 - **id** (integer): The ID of the record to retrieve.
- **Response:**
 - 200 OK: A JSON object representing the retrieved record.
 - 404 Not Found: If the specified record ID is not found.

2. Create a Record (POST)

- **URL:** /api.php
- **Method:** POST
- **Description:** Create a new record in the specified table.
- **Parameters:**
 - **firstname** (string): The first name of the new record.
 - **lastname** (string): The last name of the new record.
 - **email** (string): The email address of the new record.
- **Response:**
 - 201 Created: A JSON response with details of the created record.
 - 400 Bad Request: If any required parameters are missing.

3. Update a Record (PUT)

- **URL:** /api.php?id={record_id}
- **Method:** PUT
- **Description:** Update an existing record by its 'id' field.
- **Parameters:**
 - **id** (integer): The ID of the record to update.
 - **firstname** (string): The updated first name.
 - **lastname** (string): The updated last name.
 - **email** (string): The updated email address.
- **Response:**
 - 200 OK: A JSON response with details of the updated record.
 - 404 Not Found: If the specified record ID is not found.
 - 400 Bad Request: If any required parameters are missing.

4. Delete a Record (DELETE)

- **URL:** /api.php?id={record_id}
- **Method:** DELETE
- **Description:** Delete a record by its 'id' field.
- **Parameters:**
 - **id** (integer): The ID of the record to delete.

- **Response:**
 - 200 OK: A JSON response indicating successful deletion.
 - 404 Not Found: If the specified record ID is not found.

Error Responses

- 400 Bad Request: Indicates that the request is missing required parameters.
- 404 Not Found: Indicates that the requested record does not exist.
- 500 Internal Server Error: Indicates a server error.

Example Usage

Here are some example API requests:

1. Retrieve all records:
 - **GET /api.php**
2. Retrieve a specific record (e.g., ID 1):
 - **GET /api.php?id=1**
3. Create a new record:
 - **POST /api.php** with JSON body containing 'firstname', 'lastname', and 'email' fields.
4. Update an existing record (e.g., update record with ID 2):
 - **PUT /api.php?id=2** with JSON body containing updated fields.
5. Delete a record (e.g., delete record with ID 3):
 - **DELETE /api.php?id=3**