

# API Documentation: Check User API

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## Description

This API checks if a user exists in the database based on the provided `user_id`. If the user exists, it returns the user's details. If not, it returns an error message indicating that the user doesn't exist.

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## Endpoint

arduino  
Copy code  
`http://<your-server-host>/check_user.php`

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## HTTP Method

POST

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## Headers

Key	Value
Content-Type	application/json

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## Request Parameters

The API expects a JSON payload with the following fields:

Parameter Name	Type	Required	Description
<code>user_id</code>	string	Yes	Unique ID of the user.

## Example Request Body:

json  
Copy code  
{  
 "user\_id": "12345"  
}

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# Response Structure

The API returns a JSON response. The structure depends on whether the user exists or not.

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## 1. Successful Response (User Exists)

If the user exists in the database, the API returns the following:

Field Name	Type	Description
user_id	string	The ID of the user.
user_name	string	The name of the user.

### Example Response:

```
json
Copy code
{
  "user_id": "12345",
  "user_name": "John Doe"
}
```

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## 2. Error Response (User Does Not Exist)

If the user is not found in the database, the API returns an error message.

Field Name	Type	Description
error	boolean	Indicates an error (true).
message	string	Description of the error.

### Example Response:

```
json
Copy code
{
  "error": true,
  "message": "User doesn't exist"
}
```

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## 3. Error Response (Missing user\_id)

If user\_id is not provided in the request, the API returns the following:

Field Name	Type	Description
error	boolean	Indicates an error (true).
message	string	Description of the error.

#### Example Response:

```

json
Copy code
{
  "error": true,
  "message": "Invalid input data"
}

```

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## 4. Error Response (Invalid HTTP Method)

If a method other than POST is used, the API responds with a method not allowed error:

Field Name	Type	Description
error	boolean	Indicates an error (true).
message	string	Description of the error.

#### Example Response:

```

json
Copy code
{
  "error": true,
  "message": "Method not allowed"
}

```

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## Error Codes

HTTP Status Code	Description
200	Success
400	Bad Request (e.g., missing user_id).
405	Method Not Allowed

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## Example Usage

### Using Postman

1. Set the HTTP method to POST.
2. Enter the endpoint URL: `http://<your-server-host>/check_user.php`.

3. In the Headers section, set Content-Type: application/json.
4. In the Body section, select raw and enter:

```
json
Copy code
{
  "user_id": "12345"
}
```

5. Send the request and check the response.

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## Using cURL

```
bash
Copy code
curl -X POST \
-H "Content-Type: application/json" \
-d '{"user_id": "12345"}' \
http://<your-server-host>/check_user.php
```

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## Implementation Details

This API connects to the attendance\_system database and performs the following steps:

1. Reads the request body and extracts user\_id.
2. Queries the database to check if a user with the given user\_id exists.
3. Responds with user details if the user exists.
4. Returns an error if the user does not exist, the input is invalid, or the method is not POST.

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## Improvements

- **Authentication:** Add an API key or token mechanism for security.
- **Validation:** Validate user\_id to prevent SQL injection.
- **Rate Limiting:** Prevent abuse by limiting the number of API calls per user.