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# DAY4(MVC)

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## What is the purpose of async/await keywords?

use async to define a function that performs an asynchronous operation , fetching data. This allows the code to run without blocking other tasks.

use await inside async functions to pause execution until a task completes, ensuring that the code after it runs only when the task is finished.

await can only be used inside an async method.

# LinkedIn article about StatusCode of response



**Basmala Said** • You

CS Student | Front-end Developer | React intern @ITI | Trainee @DEPI | F...

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In web development, communication between servers and clients is heavily reliant on **HTTP status codes**. These **three-digit numbers** encapsulate the outcome of every request and provide developers with valuable insights into the success or failure of their interactions with APIs. We'll dive into the world of HTTP status codes, exploring their meanings and shedding light on common scenarios where developers encounter them.

## 1xx Informational Codes

### • 101 Switching Protocols

This is used when the server switches from HTTP to another protocol, like WebSocket, for more efficient communication.

## 2xx Success Codes

### • 200 OK

This means your request was successful, and the server is sending back the expected data.

### • 201 CREATED

This means the server successfully created a new resource (like a new user account or a document) after you made a request, usually a POST request.

### • 204 No Content

The request was successful, but there's no data to return. This is common when you delete something and don't need to receive any further info.

## 3xx Redirection Codes

### • 301 Moved Permanently

This means the resource you requested has been moved permanently to a new location, which will be provided.

### • 302 Found (Temporary)

The resource has been temporarily moved, but the original URL still works.

### • 304 Not Modified

The resource hasn't changed since the last time you accessed it, so the server doesn't need to resend it, saving bandwidth.

## 4xx Client Error Codes

### • 400 Bad Request

Something was wrong with your request, and the server couldn't process it.

### • 401 Unauthorized

You're trying to access something, but you don't have the correct credentials (like logging into a site without a username or password).

### • 403 Forbidden

You have the right credentials, but you're not allowed to access the resource. It's like having a ticket but trying to enter a restricted area.

- **404 Not Found**

The server can't find the resource you requested. Check your URL or endpoint.

- **429 Too Many Requests**

This means you've sent too many requests in a short time, and the server is asking you to slow down.

### 5xx Server Error Codes

- **500 Internal Server Error**

Something went wrong on the server's end, and it can't process your request. Check the server logs for more details.

- **502 Bad Gateway**

There's an issue between servers, like when a reverse proxy can't get a valid response from another server.

- **503 Service Unavailable**

The server can't handle requests at the moment, either due to maintenance or being overloaded with traffic.

