

→ Till now, for every request sent, the response msg and data only differed for successful & failed attempts. If the data requested for do not exist, or the operation requested for failed at server, only the returned response data differed.

But, based on data solely, the front-end could not figure out the problem or know its cause efficiently.

efficiently

⇒ For detecting what happened at the server end after a request, we need to send appropriate HTTP status code, alongwith response data.

⇒ There are standard HTTP status codes, for each type of situations at server end.

Ex:-

Suppose, in the project that we are making, suppose we get a id as path parameter, corresponding to which no post exists. Then, alongwith sending a failure message in response body as JSON, we will send/set the Response Status Code to 404

404 Status Code means the resource requested for, does not exist in the Server, i.e., Not found.

⇒ For doing it in our code, we need to first import the following, to our script :-

→ response class :-

[from fastapi import Response]

This Response class will be required for handling response codes.

→ Using the Response class, to set status code :-

```
@app.get("/posts/{id}")
def get_post(id: int, response: Response):
    reg_post = find_post(id)
    if (reg_post == None):
        response.status_code = 404
        return {"post": None}
```

any custom made function to find the post

✓ Thus, whatever status code we want to be for the Response, we need to assign that code to the status_code member variable of the Response class object.

Once assigned, that will be the response code automated. We need not to do anything else.

✓ We need to accept Response class object in the parameters of the path operation function.

status_code → The status code of the response.
The error message that is to be sent as the response body.

detail → The error message that will be sent as the response body.

Ex:-

```
from fastapi import HTTPException  
= = =  
def get_post (id:int):  
    post = find_post(id)  
    if(post == None):  
        raise HTTPException(status_code=404,  
                             detail = "Error msg")
```

⇒ Changing / Setting Default status code for any Path Operation :-

⇒ Default status code for a path operation means when a request is made for it, that status code will be returned for its every response (if not changed using status_code variable).

⇒ Changing / Setting default status code for any

path operation can be done in the Decorator.

Ex:-

```
@app.post("/post", status_code=201)
def create_post(post: Post):
    ---
```

This is to be added.

⇒ Deleting a Post/Entity :-

⇒ While deleting an entity, the default status code should be 204 : No Content.

⇒ When we set status code to 204, it is for No Content so in response, we cannot send any kind of data or msg — FastAPI restricts sending any data for 204 status code.

Thus, we just will send something like this:-

```
---.
return Response(status_code=204)
```

2:10:00

⇒ Updating a Post/Entity :-

•> For updating a post, the default status code is 200: OK

•> As convention, when we are updating an entity (post in this case), after updating, we must send the data back that is updated (i.e., the whole object data should be sent back in response)

•> Here, too, we need to pass the id of the post (that is to be changed) as Path Parameter.

Using the id, we need to fetch/find the index of that post first, and then overwrite the old data with new data.