



HttpResponseBody In WebAPI

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Sep 12 2014

Article

7

10

235.3k

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HttpResponseBody

A HttpResponseMessage allows us to work with the HTTP protocol (for example, with the headers property) and unifies our return type. In simple words an HttpResponseMessage is a way of returning a message/data from your action.

The following is a quick glimpse of that:

```
01. // GetEmployee action
02. public HttpResponseMessage GetEmployee(int id)
03. {
04.     // Do Something
05. }
```

Why to return a HttpResponseMessage

Since we can return primitive types or complex types to the user, why HttpResponseMessage?

Let's create a simple get method that will return the Employee data for the id provided.

```
01. public Employee GetEmployee(int id)
02. {
03.     return EmployeeContext.Employees.Where(e => e.Id == id).FirstOrDefault();
04. }
```

As you can see, the method above is fulfilling the requirement; it is returning the Employee details for the Id provided. But what if no such employee exists for the Id provided, it will return the null value with success response. Rather it would be more efficient if we return 404 error, with message like "Employee not found".

[CONTRIBUTE](#)

Using HttpResponseMessage

Now let's modify our previous example to return a HttpResponseMessage for the Employee data for the id provided.

```
01. // GetEmployee action
02. public HttpResponseMessage GetEmployee(int id)
03. {
04.     Employee emp = EmployeeContext.Employees.Where(e => e.Id == id).FirstOrDefault();
05.     if (emp != null)
06.     {
```

```

10. {
11.     return Request.CreateErrorResponse(HttpStatusCode.NotFound, "Employee Not Found");
12. }
13.
14. }

```

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Now as you can see above, we have used a HttpResponseMessage as the return type for our get method that will now "CreateResponse" that will return the employee data and "HttpStatusCode.OK" if the employee exists for the Id provided and if no such employee exists then it will create a "CreateErrorResponse" and that will be returning the message "Employee Not Found" and "HttpStatusCode.NotFound".

Using HttpResponseMessage with Try Catch

Now let's further modify the same example by adding try/catch blocks for exception handling.

```

01. // GetEmployee action
02. public HttpResponseMessage GetEmployee(int id)
03. {
04.     try
05.     {
06.         Employee emp = EmployeeContext.Employees.Where(e => e.Id == id).FirstOrDefault();
07.
08.         if (emp != null)
09.         {
10.             return Request.CreateResponse<Employee>(HttpStatusCode.OK, emp);
11.         }
12.         else
13.         {
14.             return Request.CreateErrorResponse(HttpStatusCode.NotFound, "Employee Not Found");
15.         }
16.     }
17.     catch (Exception ex)
18.     {
19.         // Log exception code goes here
20.         return Request.CreateErrorResponse(HttpStatusCode.InternalServerError, "Error occurred while");
21.     }
22. }
23.

```

This makes our code more robust by returning a custom error message with "HttpStatusCode.InternalServerError" if an exception occurs.

Summary

This article showed how to use HttpResponseMessage with raw HTTP responses for returning a message/data with "HttpStatusCode" from our WebApi action.

[HttpResponseMessage](#)
[WebAPI](#)


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Hello Request.CreateResponse getting error : Severity Code Description Project File Line
Suppression StateError CS0103 The name 'Request' does not exist in project

Chris H

Apr 18, 2018

1559 1 0

0 0 Reply



I appreciate, very good job !

tupac amaru

Jan 17, 2018

1559 1 0

0 0 Reply



Awesome post, but how to display the "return Request.CreateResponse<Employee>
(HttpStatusCode.OK, emp); " in view or catch it on console.log? Please help

chatay gur

May 24, 2017

1556 4 257

0 0 Reply



Pretty useful and keep posting new topics

Lokesh K

Feb 21, 2017

1512 48 6.9k

0 0 Reply



Good how can post data by using HttpResponseMessage

siva prasad

Jan 21, 2017

1553 7 0

1 0 Reply



Can you explain how to post the details using HttpResponseMessage

Anjali Kumari

Dec 09, 2016

1530 30 5.6k

0 0 Reply



I have a question dear throwing the return

Request.CreateErrorResponse(HttpStatusCode.NotFound, " Employee Not Found"); will return the
404 not found exception as we will se it in the console. i want to know this is the best approach or
is there any thing which not throw exception or it will cost us.

Muhammad Aqib Shehzad

Nov 15, 2016

223 7k 1.3m

0 0 Reply



In our project previously they have used web api for xml report generation without any
authentication (anonymously). All the things they have handled through normal asp.net mvc
controller and using like " localhost/Abc/WebApi/Controller/Export _ parameters Localhost-server,
ABC- Project Folder, WebApi-Folder, Controller-Controller Name, Export - Method. Above are the
details to access xml report using URL. But for only one thing they have used Api controller. Like
Below, public virtual HttpResponseMessage ManExport(string ABC, string product, string Release,
bool includeInheritedData = false) { } How to access this webApi controller in URL? like normal



Rajesh Boopalan
1558 2 243

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May 13, 2016

0 0 Reply



Simple and Great explanation
gowtham v
1553 7 0

Feb 18, 2015

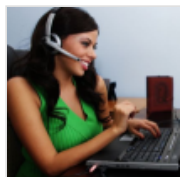
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Nice aricle
Piyush Raghvani
1547 13 0

Sep 13, 2014

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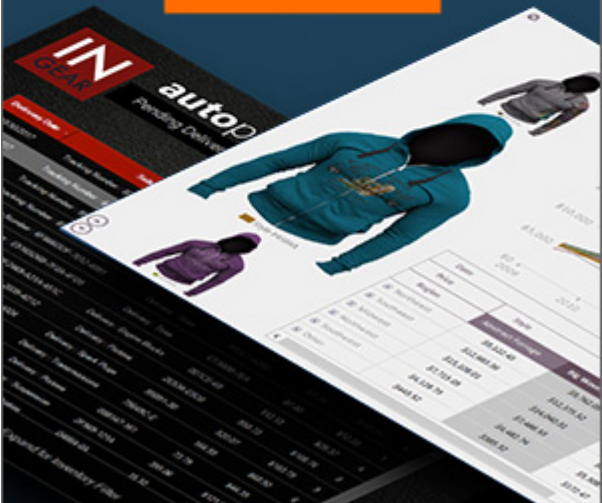


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