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ASP.NET Web API query string parameters

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In this video we will discuss using **query string parameters in ASP.NET Web API**.

Let us understand query string parameters in ASP.NET Web API with an example.

We want to modify the following [Get\(\)](#) method in **EmployeesController** so that we can retrieve employees by gender

```
public class EmployeesController : ApiController
{
    public IEnumerable<Employee> Get()
    {
        using (EmployeeDBEntities entities = new EmployeeDBEntities())
        {
```

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```

        return entities.Employees.ToList();
    }
}

```

Depending on the value we specify for query string parameter gender, the Get() method should return the data.

Query String	Data
http://localhost/api/employees?gender=All	All Employees
http://localhost/api/employees?gender=Male	Only Male Employees
http://localhost/api/employees?gender=Female	Only Female Employees

If the value for gender is not Male, Female or All, then the service should return status code **400 Bad Request**. For example, if we specify **ABC** as the value for gender, then the service should return status code **400 Bad Request** with the following message.
Value for gender must be Male, Female or All. ABC is invalid.

Below is the modified Get() method

1. Gender is being passed as a parameter to the Get() method
2. Default value is "All". The default value makes the parameter optional
3. The gender parameter of the Get() method is mapped to the gender parameter sent in the query string

```

public HttpResponseMessage Get(string gender = "All")
{
    using (EmployeeDBEntities entities = new EmployeeDBEntities())
    {
        switch (gender.ToLower())
        {
            case "all":
                return Request.CreateResponse(HttpStatusCode.OK,
                    entities.Employees.ToList());
            case "male":
                return Request.CreateResponse(HttpStatusCode.OK,

```

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```
        entities.Employees.Where(e => e.Gender.ToLower() == "male").ToList());  
    case "female":  
        return Request.CreateResponse(HttpStatusCode.OK,  
            entities.Employees.Where(e => e.Gender.ToLower() == "female").ToList());  
    default:  
        return Request.CreateErrorResponse(HttpStatusCode.BadRequest,  
            "Value for gender must be Male, Female or All. " + gender + " is invalid.");  
    }  
}
```

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2 comments:



Eugen Cosmin Dan December 18, 2017 at 1:23 AM

Can anyone please help me with this ?:

when I am creating the method with return type IHttpActionResult everything is ok, but when I am creating it as above with return type HttpResponseMessage I get the following error :

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Method not found: 'System.Net.Http.HttpRequestMessage
System.Web.Http.ApiController.get_Request()'.

what can I do to make this work ?

Thank you in advance for your help.

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Unknown April 24, 2019 at 2:25 AM

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