



RestRequest Class

Use the `System.RestRequest` class to access and pass request data in a RESTful Apex method.

Namespace

System

Usage

An Apex RESTful Web service method is defined using one of the REST annotations. For more information about Apex RESTful Web service, see [Exposing Apex Classes as REST Web Services](#).

Example: An Apex Class with REST Annotated Methods

The following example shows you how to implement the Apex REST API in Apex. This class exposes three methods that each handle a different HTTP request: GET, DELETE, and POST. You can call these annotated methods from a client by issuing HTTP requests.

```
@RestResource(urlMapping='/Account/*')
global with sharing class MyRestResource {

    @HttpDelete
    global static void doDelete() {
        RestRequest req = RestContext.request;
        RestResponse res = RestContext.response;
        String accountId = req.requestURI.substring(req.requestURI.lastIndexOf('/')+1);
        Account account = [SELECT Id FROM Account WHERE Id = :accountId];
        delete account;
    }

    @HttpGet
    global static Account doGet() {
        RestRequest req = RestContext.request;
        RestResponse res = RestContext.response;
        String accountId = req.requestURI.substring(req.requestURI.lastIndexOf('/')+1);
        Account result = [SELECT Id, Name, Phone, Website FROM Account WHERE Id = :accountId];
        return result;
    }

    @HttpPost
    global static String doPost(String name,
        String phone, String website) {
        Account account = new Account();
        account.Name = name;
        account.phone = phone;
        account.website = website;
        insert account;
        return account.Id;
    }
}
```

- [RestRequest Constructors](#)



RestRequest Constructors

The following are constructors for `RestRequest`.

- [RestRequest\(\)](#)
Creates a new instance of the `System.RestRequest` class.

RestRequest()

Creates a new instance of the `System.RestRequest` class.

Signature

```
public RestRequest()
```

RestRequest Properties

The following are properties for `RestRequest`.

Note

While the `RestRequest` `List` and `Map` properties are read-only, their contents are read-write. You can modify them by calling the collection methods directly or you can use of the associated `RestRequest` methods shown in the previous table.

- [headers](#)
Returns the headers that are received by the request.
- [httpMethod](#)
Returns one of the supported HTTP request methods.
- [params](#)
Returns the parameters that are received by the request.
- [remoteAddress](#)
Returns the IP address of the client making the request.
- [requestBody](#)
Returns or sets the body of the request.
- [requestURI](#)
Returns or sets everything after the host in the HTTP request string.
- [resourcePath](#)
Returns the REST resource path for the request.

headers

Returns the headers that are received by the request.

Signature

```
public Map<String, String> headers {get; set;}
```

Property Value

Type: `Map<String, String>`

httpMethod

Returns one of the supported HTTP request methods.



Type: [String](#)

Possible values returned:

- DELETE
- GET
- HEAD
- PATCH
- POST
- PUT

params

Returns the parameters that are received by the request.

Signature

```
public Map <String, String> params {get; set;}
```

Property Value

Type: [Map<String, String>](#)

remoteAddress

Returns the IP address of the client making the request.

Signature

```
public String remoteAddress {get; set;}
```

Property Value

Type: [String](#)

requestBody

Returns or sets the body of the request.

Signature

```
public Blob requestBody {get; set;}
```

Property Value

Type: [Blob](#)

Usage

If the Apex method has no parameters, then Apex REST copies the HTTP request body into the `RestRequest.requestBody` property. If there are parameters, then Apex REST attempts to deserialize the data into those parameters and the data won't be deserialized into the `RestRequest.requestBody` property.

requestURI

Returns or sets everything after the host in the HTTP request string.

Signature



Example

For example, if the request string is `https://instance.salesforce.com/services/apexrest/Account/` then the `requestURI` is `/Account/`.

resourcePath

Returns the REST resource path for the request.

Signature

```
public String resourcePath {get; set;}
```

Property Value

Type: [String](#)

Example

For example, if the Apex REST class defines a `urlMapping` of `/MyResource/*`, the `resourcePath` property returns `/services/apexrest/MyResource/*`.

RestRequest Methods

The following are methods for `RestRequest`. All are instance methods.

Note

At runtime, you typically don't need to add a header or parameter to the `RestRequest` object because they are automatically deserialized into the corresponding properties. The following methods are intended for unit testing Apex REST classes. You can use them to add header or parameter values to the `RestRequest` object without having to recreate the REST method call.

- [addHeader\(name, value\)](#)
Adds a header to the request header map in an Apex test.
- [addParameter\(name, value\)](#)
Adds a parameter to the request params map in an Apex test.

addHeader(name, value)

Adds a header to the request header map in an Apex test.

Signature

```
public Void addHeader(String name, String value)
```

Parameters

name

Type: [String](#)

value

Type: [String](#)

Return Value

Type: `Void`



- cookie
- set-cookie
- set-cookie2
- content-length
- authorization

If any of these headers are used, an Apex exception is thrown.

addParameter(name, value)

Adds a parameter to the request params map in an Apex test.

Signature

```
public Void addParameter(String name, String value)
```

Parameters

name

Type: [String](#)

value

Type: [String](#)

Return Value

Type: Void

Usage

This method is intended for unit testing of Apex REST classes.

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