GreenSpaces Authorization Service Documentation

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This application provides authorization to other GreenSpaces clients to access GreenSpaces resource through a GreenSpaces resource server. Green Spaces is an Application that will enable users recommend parks, fields and relevant recreational and communal places and in turn enable citizens search for facilities, post comments and review, view available events within these spaces.

Performing Authorization through Authorization Code Grant Type

cURL Request:

\$ curl 'http://localhost:8080/oauth2/authorize?response_type=code&client_id=76e09d7a-1095-4b47-80c5-

5f8bcba70f1d&scope=read&redirect_uri=https://localhost:1000&code_challenge=7VwNGtsKGYcg3ZvDSqr6BcF4E-iFKkmwGpIMiXZ6xrU&code_challenge_method=S256' -i -X GET

Httpie Request:

\$ http GET

'http://localhost:8080/oauth2/authorize?response_type=code&client_id=76e09d7a-1095-4h47-80c5-

5f8bcba70f1d&scope=read&redirect_uri=https://localhost:1000&code_challenge=7VwNGtsKGYcg3ZvDSqr6BcF4E-iFKkmwGpIMiXZ6xrU&code_challenge_method=S256'

Http Request:

GET /oauth2/authorize?response_type=code&client_id=76e09d7a-1095-4b47-80c5-5f8bcba70f1d&scope=read&redirect_uri=https://localhost:1000&code_challenge=7VwNGtsKGYcg3ZvDSqr6BcF4E-iFKkmwGpIMiXZ6xrU&code_challenge_method=S256 HTTP/1.1

Host: localhost:8080

Http Response:

HTTP/1.1 302 Found

X-Content-Type-Options: nosniff

X-XSS-Protection: 0

Cache-Control: no-cache, no-store, max-age=0, must-revalidate

Pragma: no-cache

Expires: 0

X-Frame-Options: DENY

Location: https://localhost:1000?code=412C-AHth9fSPw8z5GMylBhUYZWISbN8BpTKj1s7V371-3zDiI6pkJPN_6wlgpdWHvbRJhYKWdYVDG-k16K-zQrQ7uGVSbmh2OUbfKyxjAR8Mp2UvoL_FVfgNa-C2yhG

Query Parameters:

Parameter	Description	
response_type	grant type of the client	
client_id	id of the client	
scope	scope of user data available to the client	

Parameter	Description
redirect_uri	Uri that user will be directed to after successful login
code_challenge	Verifier Code or Proof Key for Code Exchange (PKCE) security enhancement provided by the client
code_challenge_method	Algorithm for generating the PKCE e.g SHA-256

Response Header:

Name	Description
Location	The Current URI containing the authorization code after a successful redirect operation

Retrieving Access Token from Authorization Server

cURL Request:

Httpie Request:

```
$ http --form --auth '76e09d7a-1095-4b47-80c5-5f8bcba70f1d:Secret4Client01' POST
'http://localhost:8080/oauth2/token?client_id=76e09d7a-1095-4b47-80c5-
5f8bcba70f1d&redirect_uri=https://localhost:1000&grant_type=authorization_code&code=Ni
UvZD4S0M4SCTa-D0aZ_4pczlCaNiODFVcZYUJM50xVLtYW0yTuegPM5yEWd3IjWcZEDdiHoxaXlJs-
bz_Xjj7xS7887T3asgovUeQVB76_Y7Drfd0raN6SKQ1yeZw3&code_verifier=uLQHUrpX3VL3cIfVT41XmHq
rEp6pdYIJaO-5hgvHN0I'
```

Http Request:

```
POST /oauth2/token?client_id=76e09d7a-1095-4b47-80c5-5f8bcba70f1d&redirect_uri=https://localhost:1000&grant_type=authorization_code&code=NiUvZD4S0M4SCTa-D0aZ_4pczlCaNiODFVcZYUJM50xVLtYWOyTuegPM5yEWd3IjWcZEDdiHoxaXlJs-bz_Xjj7xS7887T3asgovUeQVB76_Y7Drfd0raN6SKQ1yeZw3&code_verifier=uLQHUrpX3VL3cIfVT41XmHqrEp6pdYIJaO-5hgvHN0I HTTP/1.1
```

Content-Type: application/x-www-form-urlencoded

Authorization: Basic

NzZlMDlkN2EtMTA5NS00YjQ3LTgwYzUtNWY4YmNiYTcwZjFkOlNlY3JldDRDbGllbnQwMQ==

Host: localhost:8080

Http Response:

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
X-Content-Type-Options: nosniff
X-XSS-Protection: 0
```

Cache-Control: no-cache, no-store, max-age=0, must-revalidate

Pragma: no-cache

Expires: 0

X-Frame-Options: DENY Content-Length: 729

{"access_token":"eyJraWQiOiI40Dg1NzAwNC0yYjViLTQyMjMtODlmMi1hMGRhNGI0Yzc1ZTYiLCJhbGciOiJSUzI1NiJ9.eyJzdWIiOiJhZG1pbkBncmVlbnNwYWNlcy5jb20iLCJhdWQiOiJjY2U1M2ZjNi01YjRkLTRmNjItYTlmZi0yN2IxYjgzN2EzMGIiLCJuYmYiOjE3MTkzNTgyNzgsInNjb3BlIjpbInJlYWQiXSwiaXNzIjoiaHR0cDovL2xvY2FsaG9zdDo4MDgwIiwiZXhwIjoxNzE5MzU4NTc4LCJpYXQiOjE3MTkzNTgyNzh9.UBvxjNS-VygL4g30Va3LtEwYzUDCSAlxVDqYECFXavwwvyjc0-7bM5x_3yCRcLd5h0d-

pCXaJDxvOe2ur_nc4Qn3gvyKehtvHRGgnGRx_mkj2yV2I29PSaAbxKe_V3xJ7HlfYYKkK8Fqdwfw3iEoPOBLLj XevB0_mPykyfwlZ8P9at7jQ6bZkkEJnQFlnaYKxZwRyjcCJHWyw3tSd_C_LHGwFqnMcny5EVIEGOzuaHkJNG5Y nMHeyRKFk-_RY4ohHpD7F4f81DPAkLP-o0frlRfCkoaE-aOb23a9-

cy6DTCxDv4I5Dk1nJJw3Ccd8QNhhGiGAIS1KME_V1P-

7YLEjA", "scope": "read", "token_type": "Bearer", "expires_in":300}

Query Parameters:

Parameter	Description
client_id	Id of the client
redirect_uri	The redirect URI registered for this client
grant_type	The grant type or oauth2.0 authentication flow
code	Authorization code from the authorization server
code_verifier	Random verifier for proofing the client is authorized to use the authorization code

Request Header:

Name	Description
Authorization	Basic Authentication through client id and client secret

Request Body:

Response Body:

{"access_token":"eyJraWQiOiI40Dg1NzAwNC0yYjViLTQyMjMt0DlmMi1hMGRhNGI0Yzc1ZTYiLCJhbGciOiSUzI1NiJ9.eyJzdWIiOiJhZG1pbkBncmVlbnNwYWNlcy5jb20iLCJhdWQiOiJjY2U1M2ZjNi01YjRkLTRmNjItYTlmZi0yN2IxYjgzN2EzMGIiLCJuYmYiOjE3MTkzNTgyNzgsInNjb3BlIjpbInJlYWQiXSwiaXNzIjoiaHR0cDovL2xvY2FsaG9zdDo4MDgwIiwiZXhwIjoxNzE5MzU4NTc4LCJpYXQiOjE3MTkzNTgyNzh9.UBvxjNS-VygL4g3OVa3LtEwYzUDCSAlxVDqYECFXavwwvyjc0-7bM5x_3yCRcLd5h0d-

pCXaJDxvOe2ur_nc4Qn3gvyKehtvHRGgnGRx_mkj2yV2I29PSaAbxKe_V3xJ7HlfYYKkK8Fqdwfw3iEoPOBLLjXevB0_mPykyfwlZ8P9at7jQ6bZkkEJnQFlnaYKxZwRyjcCJHWyw3tSd_C_LHGwFqnMcny5EVIEGOzuaHkJNG5YnMHeyRKFk-_RY4ohHpD7F4f81DPAkLP-o0frlRfCkoaE-aOb23a9-

cy6DTCxDv4I5Dk1nJJw3Ccd8QNhhGiGAIS1KME V1P-

7YLEjA", "scope": "read", "token_type": "Bearer", "expires_in":300}

Response Fields:

Path	Туре	Description
access_token	class java.lang.String	Token supplied by Authorization server
scope	class java.lang.String	The action the client can perform upon user's detail with the access token
token_type	String	The type of token issued by the Authorization server e.g Bearer token
expires_in	Number	Expiry time of the access token

Creating a user

cURL Request:

```
$ curl 'http://localhost:8080/users?_csrf=bJ7glA-
u9qD9MOedW1ljgLTivFknBwFfvztEqlDRTnOh1HhjX_zW9m3IlZLQBdSsanRX44HakWBCMGJyhgwhzmnkL0XE4
h5T' -i -X POST \
    -H 'Content-Type: application/json;charset=UTF-8' \
  "id": "b583b456-9300-4cbd-4bcd-199225f5d42c",
  "username" : "user.test@mail.com",
  "password": "13Tm31n@16351t3001",
  "roles" : [ {
    "id" : 1,
    "role": "ADMIN",
    "authorities" : [ {
      "id" : 3,
     "authority" : "execute"
      "id": 2,
     "authority" : "write"
   }, {
      "id" : 1,
     "authority" : "read"
   } ]
 } ],
 "enabled" : true,
 "accountNonLocked" : true,
  "credentialsNonExpired" : true,
  "accountNonExpired" : true
```

Httpie Request:

```
$ echo '{
    "id" : "b583b456-9300-4cbd-4bcd-199225f5d42c",
    "username" : "user.test@mail.com",
    "password" : "13Tm31n@16351t3001",
    "roles" : [ {
        "id" : 1,
        "role" : "ADMIN",
        "authorities" : [ {
            "id" : 3,
            "authority" : "execute"
        }, {
            "id" : 2,
            "authority" : "write"
        }, {
```

Http Request:

```
POST /users? csrf=bJ7glA-
u9qD9MOedW1ljgLTivFknBwFfvztEqlDRTnOh1HhjX_zW9m3IlZLQBdSsanRX44HakWBCMGJyhgwhzmnkL0XE4
h5T HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 502
Host: localhost:8080
  "id": "b583b456-9300-4cbd-4bcd-199225f5d42c",
  "username" : "user.test@mail.com",
  "password": "13Tm31n@16351t3001",
  "roles" : [ {
    "id" : 1,
    "role": "ADMIN",
    "authorities" : [ {
      "id": 3,
      "authority" : "execute"
    }, {
      "id" : 2,
      "authority" : "write"
    }, {
      "id" : 1,
      "authority" : "read"
    } ]
  } ],
  "enabled" : true,
  "accountNonLocked" : true,
  "credentialsNonExpired" : true,
  "accountNonExpired" : true
}
```

```
HTTP/1.1 201 Created
Content-Type: application/json
```

```
X-Content-Type-Options: nosniff
X-XSS-Protection: 0
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 308

{"id":"b583b456-9300-4cbd-4bcd-
199225f5d42c", "username": "user.test@mail.com", "roles":[{"id":1, "role": "ADMIN", "authorities":[{"id":3, "authority": "execute"}, {"id":2, "authority": "write"}, {"id":1, "authority": "read"}]], "enabled":true, "accountNonLocked":true, "credentialsNonExpired":true, "accountNonExpired":true}
```

```
{
 "id": "b583b456-9300-4cbd-4bcd-199225f5d42c",
 "username" : "user.test@mail.com",
  "password": "13Tm31n@16351t3001",
 "roles" : [ {
    "id" : 1,
    "role": "ADMIN",
    "authorities" : [ {
     "id": 3,
      "authority": "execute"
   }, {
      "id" : 2,
      "authority" : "write"
   }, {
      "id": 1,
      "authority" : "read"
   } ]
 } ],
  "enabled" : true,
  "accountNonLocked" : true,
 "credentialsNonExpired" : true,
 "accountNonExpired" : true
}
```

Path	Туре	Description
username	class java.lang.String	username of the user to be save
password	class java.lang.String	password of the user to save
roles	interface java.util.Set	roles of the user to be saved
roles.[].id	class java.lang.Integer	role id of a single role within roles of the user to be saved

Path	Туре	Description
roles.[].role	class java.lang.String	role name of a single role within roles of a single role within roles of the user to be saved
roles.[].authorities	interface java.util.Set	authorities within a single role of roles of the user to be saved
roles.[].authorities.[].id	class java.lang.Integer	id of a authority within a role of roles of the user to be saved
<pre>roles.[].authorities.[].author ity</pre>	class java.lang.String	authority name of an authority within a role of roles of the user to be saved
enabled	class java.lang.Boolean	status describing if the user account is enabled
credentialsNonExpired	class java.lang.Boolean	status describing the validity of user's credentials
accountNonExpired	class java.lang.Boolean	Status describing user's account validity
accountNonLocked	class java.lang.Boolean	Status describing whether user's account is locked or unlocked

```
{"id":"b583b456-9300-4cbd-4bcd-
199225f5d42c","username":"user.test@mail.com","roles":[{"id":1,"role":"ADMIN","authori
ties":[{"id":3,"authority":"execute"},{"id":2,"authority":"write"},{"id":1,"authority"
:"read"}]}],"enabled":true,"accountNonLocked":true,"credentialsNonExpired":true,"accou
ntNonExpired":true}
```

Retrieving a user by id

cURL Request:

```
$ curl 'http://localhost:8080/users/b583b456-9300-4cbd-4bcd-199225f5d42c' -i -X GET \
   -H 'Content-Type: application/json;charset=UTF-8'
```

Httpie Request:

Http Request:

```
GET /users/b583b456-9300-4cbd-4bcd-199225f5d42c HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

```
HTTP/1.1 200 OK

Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 0
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 308

{"id":"b583b456-9300-4cbd-4bcd-
199225f5d42c", "username":"user.test@mail.com", "roles":[{"id":1, "role":"ADMIN", "authorities":[{"id":3, "authority":"execute"}, {"id":2, "authority":"write"}, {"id":1, "authority":"read"}]}], "enabled":true, "accountNonLocked":true, "credentialsNonExpired":true, "accountNonExpired":true}
```

Request Parameters:

Table 1. /users/{id}

Parameter	Description
id	UUID of the user to retrieve

{"id":"b583b456-9300-4cbd-4bcd199225f5d42c","username":"user.test@mail.com","roles":[{"id":1,"role":"ADMIN","authori
ties":[{"id":3,"authority":"execute"},{"id":2,"authority":"write"},{"id":1,"authority"
:"read"}]}],"enabled":true,"accountNonLocked":true,"credentialsNonExpired":true,"accou
ntNonExpired":true}

Path	Туре	Description
id	String	UUID of the retrieved user
username	class java.lang.String	username of the user to be save
roles	interface java.util.Set	roles of the user to be saved
roles.[].id	class java.lang.Integer	role id of a single role within roles of the user to be saved
roles.[].role	class java.lang.String	role name of a single role within roles of a single role within roles of the user to be saved
roles.[].authorities	interface java.util.Set	authorities within a single role of roles of the user to be saved
roles.[].authorities.[].id	class java.lang.Integer	id of a authority within a role of roles of the user to be saved
<pre>roles.[].authorities.[].author ity</pre>	class java.lang.String	authority name of an authority within a role of roles of the user to be saved
enabled	class java.lang.Boolean	status describing if the user account is enabled
credentialsNonExpired	class java.lang.Boolean	status describing the validity of user's credentials
accountNonExpired	class java.lang.Boolean	Status describing user's account validity
accountNonLocked	class java.lang.Boolean	Status describing whether user's account is locked or unlocked

Retrieving a user's Role

cURL Request:

```
$ curl 'http://localhost:8080/users/b583b456-9300-4cbd-4bcd-199225f5d42c/roles/1' -i
-X GET \
   -H 'Content-Type: application/json;charset=UTF-8'
```

Httpie Request:

```
$ http GET 'http://localhost:8080/users/b583b456-9300-4cbd-4bcd-199225f5d42c/roles/1'
\
'Content-Type:application/json;charset=UTF-8'
```

Http Request:

```
GET /users/b583b456-9300-4cbd-4bcd-199225f5d42c/roles/1 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

```
HTTP/1.1 200 OK
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 0
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 127

{"id":1,"role":"ADMIN","authorities":[{"id":3,"authority":"execute"},{"id":2,"authority":"write"},{"id":1,"authority":"read"}]}
```

Request Parameters:

Table 2. /users/{id}/roles/{roleId}

Parameter	Description	
id	UUID of the user with role to retrieve	
roleId	id of role to retrieve	

{"id":1,"role":"ADMIN","authorities":[{"id":3,"authority":"execute"},{"id":2,"authority":"write"},{"id":1,"authority":"read"}]}

Path	Туре	Description
id	class java.lang.Integer	id of a role
role	class java.lang.String	role name
authorities	interface java.util.Set	authorities within this role
authorities.[].id	class java.lang.Integer	id of an authority within a role of roles
authorities.[].authority	class java.lang.String	authority name of an authority within a role

Retrieving a user's Roles

cURL Request:

```
$ curl 'http://localhost:8080/users/b583b456-9300-4cbd-4bcd-199225f5d42c/roles' -i -X
GET \
   -H 'Content-Type: application/json;charset=UTF-8'
```

Httpie Request:

Http Request:

```
GET /users/b583b456-9300-4cbd-4bcd-199225f5d42c/roles HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

```
HTTP/1.1 200 OK
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 0
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 129

[{"id":1,"role":"ADMIN","authorities":[{"id":3,"authority":"execute"},{"id":2,"authority":"write"},{"id":1,"authority":"read"}]}]
```

Request Parameters:

Table 3. /users/{id}/roles

Parameter	Description
id	UUID of the user to retrieve

```
[{"id":1,"role":"ADMIN","authorities":[{"id":3,"authority":"execute"},{"id":2,"authori
```

ty":"write"},{"id":1,"authority":"read"}]}]

Path	Туре	Description
[].id	class java.lang.Integer	id of a role within roles of the user
[].role	class java.lang.String	role name of role within roles of a user
[].authorities	interface java.util.Set	authorities within a single role of roles
[].authorities.[].id	class java.lang.Integer	id of authority within a role of roles
[].authorities.[].authority	class java.lang.String	authority name of an authority within a role of roles

Retrieving a User's Authority

cURL Request:

```
$ curl 'http://localhost:8080/users/b583b456-9300-4cbd-4bcd-
199225f5d42c/roles/1/authorities/1' -i -X GET \
   -H 'Content-Type: application/json;charset=UTF-8'
```

Httpie Request:

```
$ http GET 'http://localhost:8080/users/b583b456-9300-4cbd-4bcd-
199225f5d42c/roles/1/authorities/1' \
    'Content-Type:application/json;charset=UTF-8'
```

Http Request:

```
GET /users/b583b456-9300-4cbd-4bcd-199225f5d42c/roles/1/authorities/1 HTTP/1.1
```

Content-Type: application/json;charset=UTF-8

Host: localhost:8080

```
HTTP/1.1 200 OK
```

Content-Type: application/json
X-Content-Type-Options: nosniff

X-XSS-Protection: 0

Cache-Control: no-cache, no-store, max-age=0, must-revalidate

Pragma: no-cache Expires: 0

X-Frame-Options: DENY

Content-Length: 27

{"id":1, "authority": "read"}

Request Parameters:

Table 4. /users/{id}/roles/{roleId}/authorities/{authorityId}

Parameter	Description
id	UUID of the user with authority to retrieve
roleId	id of role associated with the authority to be retrieved
authorityId	id of the authority to retrieve

{"id":1,"authority":"read"}

Path	Туре	Description
id	class java.lang.Integer	id of the authority to retrieve
authority	class java.lang.String	authority name of an authority to retrieve

Retrieving a User's Authorities

cURL Request:

```
$ curl 'http://localhost:8080/users/b583b456-9300-4cbd-4bcd-
199225f5d42c/roles/authorities' -i -X GET \
   -H 'Content-Type: application/json;charset=UTF-8'
```

Httpie Request:

```
$ http GET 'http://localhost:8080/users/b583b456-9300-4cbd-4bcd-
199225f5d42c/roles/authorities' \
    'Content-Type:application/json;charset=UTF-8'
```

Http Request:

```
GET /users/b583b456-9300-4cbd-4bcd-199225f5d42c/roles/authorities HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

```
HTTP/1.1 200 OK
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 0
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 89

[{"id":3,"authority":"execute"},{"id":2,"authority":"write"},{"id":1,"authority":"read
"}]
```

Request Parameters:

Table 5. /users/{id}/roles/authorities

Parameter	Description
id	id of the user associated with retrieved authorities

[{"id":3,"authority":"execute"},{"id":2,"authority":"write"},{"id":1,"authority":"read"}]

Path	Туре	Description
[].id	Number	id of an authority within list of authorities retrieved
[].authority	String	authority name of an authority within list of authorities retrieved

Retrieving all Users

cURL Request:

```
$ curl 'http://localhost:8080/users' -i -X GET \
  -H 'Content-Type: application/json;charset=UTF-8'
```

Httpie Request:

Http Request:

```
GET /users HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

```
HTTP/1.1 200 OK
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 0
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 310

[{"id":"b583b456-9300-4cbd-4bcd-
199225f5d42c", "username": "user.test@mail.com", "roles": [{"id":1, "role": "ADMIN", "authorities": [{"id":3, "authority": "execute"}, {"id":2, "authority": "write"}, {"id":1, "authority": "read"}]}], "enabled": true, "accountNonLocked": true, "credentialsNonExpired": true, "accountNonExpired": true}]
```

```
[{"id":"b583b456-9300-4cbd-4bcd-
199225f5d42c", "username": "user.test@mail.com", "roles": [{"id":1, "role": "ADMIN", "authorites": [{"id":3, "authority": "execute"}, {"id":2, "authority": "write"}, {"id":1, "authority": "read"}]}], "enabled": true, "accountNonLocked": true, "credentialsNonExpired": true, "accountNonExpired": true}]
```

Path	Туре	Description
[].id	String	UUID of the retrieved user
[].username	class java.lang.String	username of the user to be save
[].roles	interface java.util.Set	roles of the user to be saved
[].roles.[].id	class java.lang.Integer	role id of a single role within roles of the user to be saved
[].roles.[].role	class java.lang.String	role name of a single role within roles of a single role within roles of the user to be saved
[].roles.[].authorities	interface java.util.Set	authorities within a single role of roles of the user to be saved
[].roles.[].authorities.[].id	class java.lang.Integer	id of a authority within a role of roles of the user to be saved
[].roles.[].authorities.[].authority	class java.lang.String	authority name of an authority within a role of roles of the user to be saved
[].enabled	class java.lang.Boolean	status describing if the user account is enabled
[].credentialsNonExpired	class java.lang.Boolean	status describing the validity of user's credentials
[].accountNonExpired	class java.lang.Boolean	Status describing user's account validity
[].accountNonLocked	class java.lang.Boolean	Status describing whether user's account is locked or unlocked

Updating a User (Adding Authorities to User)

cURL Request:

```
$ curl 'http://localhost:8080/users/b583b456-9300-4cbd-4bcd-
199225f5d42c/roles/1/authorities?_csrf=nj38kU54vdi2ABxRNfFp-D4xkFtfCzLL-
hHW8hE4zn524Tg5rwXI9HpA202bN3llDdxdzQYFvTk5bVbmyyC0wXUJrxtD2FkA' -i -X PATCH \
    -H 'Content-Type: application/json;charset=UTF-8' \
    -d '[ {
    "id" : 2,
    "authority" : "update"
} ]'
```

Httpie Request:

Http Request:

```
PATCH /users/b583b456-9300-4cbd-4bcd-
199225f5d42c/roles/1/authorities?_csrf=nj38kU54vdi2ABxRNfFp-D4xkFtfCzLL-
hHW8hE4zn524Tg5rwXI9HpA202bN3llDdxdzQYFvTk5bVbmyyC0wXUJrxtD2FkA HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 47
Host: localhost:8080

[ {
    "id" : 2,
    "authority" : "update"
} ]
```

```
HTTP/1.1 200 OK
X-Content-Type-Options: nosniff
X-XSS-Protection: 0
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
```

Request Parameters:

Table 6. /users/{id}/roles/{roleId}/authorities

Parameter	Description
id	UUID of the user adding authorities
roleId	id of the role to add the authorities

```
[ {
    "id" : 2,
    "authority" : "update"
} ]
```

Path	Туре	Description
[].authority	String	authority name of authority within authorities to add

Updating a User (Adding Roles to User)

cURL Request:

```
$ curl 'http://localhost:8080/users/b583b456-9300-4cbd-4bcd-
199225f5d42c/roles?_csrf=tBZRHLLak1k6Hb7eQi87ky43i37Zeo2LajitQf1hYUAS2rX_giBjKtHi8mEXe
4_pdwIPpUpUpka4H06mUlmYc84CU3YkuITG' -i -X PATCH \
    -H 'Content-Type: application/json;charset=UTF-8' \
    -d '[ {
    "id" : 2,
    "role" : "USER",
    "authorities" : null
} ]'
```

Httpie Request:

Http Request:

```
PATCH /users/b583b456-9300-4cbd-4bcd-
199225f5d42c/roles?_csrf=tBZRHLLak1k6Hb7eQi87ky43i37Zeo2LajitQf1hYUAS2rX_giBjKtHi8mEXe
4_pdwIPpUpUpka4H06mUlmYc84CU3YkuITG HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 65
Host: localhost:8080

[ {
    "id" : 2,
    "role" : "USER",
    "authorities" : null
} ]
```

```
HTTP/1.1 200 OK
X-Content-Type-Options: nosniff
X-XSS-Protection: 0
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
```

```
X-Frame-Options: DENY
```

Request Parameters:

Table 7. /users/{id}/roles

Parameter	Description
id	UUID of the user with roles to be retrieved

```
[ {
    "id" : 2,
    "role" : "USER",
    "authorities" : null
} ]
```

Updating a User's account status

cURL Request:

```
$ curl 'http://localhost:8080/users/accounts/b583b456-9300-4cbd-4bcd-
199225f5d42c?_csrf=msYQuHhBciXcnniaTFNysimVajiIAl49dxbVxShRZ1SuLQZ3-fQnjhx0RRzxqxr-
fn5GgR6hR1m_MmoQQHPtoxllAW2XGzNF' -i -X PATCH \
    -H 'Content-Type: application/json;charset=UTF-8' \
    -d '{
    "id" : null,
    "username" : "user.test@mail.com",
    "password" : null,
    "roles" : null,
    "enabled" : true,
    "accountNonLocked" : true,
    "credentialsNonExpired" : true,
    "accountNonExpired" : true
}'
```

Httpie Request:

```
$ echo '{
   "id" : null,
   "username" : "user.test@mail.com",
   "password" : null,
   "roles" : null,
   "enabled" : true,
   "accountNonLocked" : true,
   "credentialsNonExpired" : true,
   "accountNonExpired" : true
}' | http PATCH 'http://localhost:8080/users/accounts/b583b456-9300-4cbd-4bcd-
199225f5d42c?_csrf=msYQuHhBciXcnniaTFNysimVajiIAl49dxbVxShRZ1SuLQZ3-fQnjhx0RRzxqxr-
fn5GgR6hR1m_MmoQQHPtoxllAW2XGzNF' \
   'Content-Type:application/json;charset=UTF-8'
```

Http Request:

```
PATCH /users/accounts/b583b456-9300-4cbd-4bcd-
199225f5d42c?_csrf=msYQuHhBciXcnniaTFNysimVajiIAl49dxbVxShRZ1SuLQZ3-fQnjhx0RRzxqxr-
fn5GgR6hR1m_MmoQQHPtoxllAW2XGzNF HTTP/1.1
Content-Type: application/json; charset=UTF-8
Content-Length: 215
Host: localhost:8080

{
    "id" : null,
    "username" : "user.test@mail.com",
```

```
"password" : null,
"roles" : null,
"enabled" : true,
"accountNonLocked" : true,
"credentialsNonExpired" : true,
"accountNonExpired" : true
}
```

```
HTTP/1.1 200 OK
X-Content-Type-Options: nosniff
X-XSS-Protection: 0
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
```

Request Parameters:

Table 8. /users/accounts/{id}

Parameter	Description
id	Id of the user account status to update

```
"id" : null,
"username" : "user.test@mail.com",
"password" : null,
"roles" : null,
"enabled" : true,
"accountNonLocked" : true,
"credentialsNonExpired" : true,
"accountNonExpired" : true
}
```

Updating a User's Password

cURL Request:

```
$ curl 'http://localhost:8080/users/b583b456-9300-4cbd-4bcd-
199225f5d42c/accounts/password-reset?_csrf=ApmB7tFQ2lj89oJQjoLvT8-
_q8pm97anfZmBsLOhCBgF78NLMv2x2bJn7GzRx7dpvq_bLfyIhvIFwtCKTf-2g4KVaSAz3vR-' -i -X PATCH

-H 'Content-Type: application/json; charset=UTF-8' \
    -d '{
    "id" : null,
    "username" : "user.test@mail.com",
    "password" : "P@55w07d4t35t",
    "roles" : null,
    "enabled" : false,
    "accountNonLocked" : false,
    "credentialsNonExpired" : false,
    "accountNonExpired" : false
}'
```

Httpie Request:

Http Request:

```
PATCH /users/b583b456-9300-4cbd-4bcd-199225f5d42c/accounts/password-
reset?_csrf=ApmB7tFQ2lj89oJQjoLvT8-
_q8pm97anfZmBsLOhCBgF78NLMv2x2bJn7GzRx7dpvq_bLfyIhvIFwtCKTf-2g4KVaSAz3vR- HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 230
Host: localhost:8080

{
    "id": null,
```

```
"username" : "user.test@mail.com",
    "password" : "P@55w07d4t35t",
    "roles" : null,
    "enabled" : false,
    "accountNonLocked" : false,
    "credentialsNonExpired" : false,
    "accountNonExpired" : false
}
```

```
HTTP/1.1 200 OK
X-Content-Type-Options: nosniff
X-XSS-Protection: 0
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
```

Request Parameters:

Table 9. /users/{id}/accounts/password-reset

Parameter	Description
id	Id of the user with password to reset

```
"id" : null,
"username" : "user.test@mail.com",
"password" : "P@55w07d4t35t",
"roles" : null,
"enabled" : false,
"accountNonLocked" : false,
"credentialsNonExpired" : false,
"accountNonExpired" : false
}
```

Path	Туре	Description
username	class java.lang.String	username of the user to be save
password	class java.lang.String	password of the user to save

Deleting a User

cURL Request:

```
$ curl 'http://localhost:8080/users/b583b456-9300-4cbd-4bcd-199225f5d42c' -i -X DELETE
\
-H 'Content-Type: application/json;charset=UTF-8'
```

Httpie Request:

Http Request:

```
DELETE /users/b583b456-9300-4cbd-4bcd-199225f5d42c HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

```
HTTP/1.1 200 OK
X-Content-Type-Options: nosniff
X-XSS-Protection: 0
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
```

Request Parameters:

Table 10. /users/{id}

Parameter	Description
id	Id of the user to delete

Creating a Client

cURL Request:

```
$ curl
'http://localhost:8080/clients?_csrf=QpzkTIHKtOPQ9SYD1YmqyNuCX5hzk5xc6VUz3bBwR4G-
pYOdJ6XXL7Kv19b9xkU34qSe_Om2cqEXo6xxj2QC5IgWJbDYkLes' -i -X POST \
    -H 'Content-Type: application/json;charset=UTF-8' \
    -d '{
  "id" : "001i",
  "clientId" : "001ci",
 "name" : "Client03",
  "secret": "53cr3t50$9feW1t6m3",
  "authenticationMethods" : [ {
    "id" : 1,
    "method" : "client_secret basic"
 } ],
  "grantTypes" : [ {
    "id" : 1,
    "grantType" : "authorization_code"
 } ],
  "redirectUris" : [ {
    "id" : 1,
    "uri" : "http://127.0.0.1:1000"
 } ],
  "scopes" : [ {
    "id" : 1,
    "scope": "openid"
 } ],
 "tokenSettings" : {
    "id" : 1,
    "format" : "self-contained",
    "accessTokenTTL" : 30
 }
}'
```

Httpie Request:

```
$ echo '{
    "id" : "001i",
    "clientId" : "001ci",
    "name" : "Client03",
    "secret" : "53cr3t50$9feW1t6m3",
    "authenticationMethods" : [ {
        "id" : 1,
        "method" : "client_secret_basic"
} ],
    "grantTypes" : [ {
```

```
"id" : 1,
    "grantType" : "authorization_code"
 } ],
  "redirectUris" : [ {
    "id" : 1,
    "uri": "http://127.0.0.1:1000"
 } ],
  "scopes" : [ {
    "id" : 1,
    "scope" : "openid"
 } ],
  "tokenSettings" : {
    "id" : 1,
    "format": "self-contained",
    "accessTokenTTL" : 30
 }
}' | http POST
'http://localhost:8080/clients?_csrf=QpzkTIHKtOPQ9SYD1YmqyNuCX5hzk5xc6VUz3bBwR4G-
pYOdJ6XXL7Kv19b9xkU34qSe_Om2cqEXo6xxj2QC5IgWJbDYkLes' \
    'Content-Type:application/json;charset=UTF-8'
```

Http Request:

```
POST /clients?_csrf=QpzkTIHKtOPQ9SYD1YmqyNuCX5hzk5xc6VUz3bBwR4G-
pYOdJ6XXL7Kv19b9xkU34qSe_Om2cqEXo6xxj2QC5IgWJbDYkLes HTTP/1.1
Content-Type: application/json; charset=UTF-8
Content-Length: 539
Host: localhost:8080
  "id": "001i",
  "clientId" : "001ci",
  "name" : "Client03",
  "secret": "53cr3t50$9feW1t6m3",
  "authenticationMethods" : [ {
    "id": 1,
    "method" : "client secret basic"
  }],
  "grantTypes" : [ {
    "id" : 1,
    "grantType" : "authorization_code"
  } ],
  "redirectUris" : [ {
    "id": 1,
    "uri" : "http://127.0.0.1:1000"
  } ],
  "scopes" : [ {
    "id" : 1,
    "scope" : "openid"
  } ],
```

```
"tokenSettings" : {
    "id" : 1,
    "format" : "self-contained",
    "accessTokenTTL" : 30
    }
}
```

```
HTTP/1.1 201 Created
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 0
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 337

{"id":"001i", "clientId":"001ci", "name":"Client03", "authenticationMethods":[{"id":1, "method":"client_secret_basic"}], "grantTypes":[{"id":1, "grantType":"authorization_code"}], "redirectUris":[{"id":1, "uri":"http://127.0.0.1:1000"}], "scopes":[{"id":1, "scope":"openid"}], "tokenSettings":{"id":1, "format":"self-contained", "accessTokenTTL":30}}
```

```
{
 "id" : "001i",
 "clientId" : "001ci",
 "name" : "Client03",
 "secret": "53cr3t50$9feW1t6m3",
 "authenticationMethods" : [ {
    "id": 1,
    "method" : "client_secret_basic"
 }],
 "grantTypes" : [ {
    "id" : 1,
    "grantType" : "authorization code"
 } ],
 "redirectUris" : [ {
    "id" : 1,
    "uri" : "http://127.0.0.1:1000"
 } ],
 "scopes" : [ {
   "id" : 1,
    "scope": "openid"
 } ],
 "tokenSettings" : {
    "id" : 1,
    "format" : "self-contained",
```

```
"accessTokenTTL" : 30
}
}
```

Path	Туре	Description
name	class java.lang.String	Desired client name
secret	class java.lang.String	Desired client secret
authenticationMethods	interface java.util.Set	Authentication Methods of the client
authenticationMethods.[].method	class java.lang.String	Authentication method name of an authentication method of the client
grantTypes	interface java.util.Set	Desired list/set of auth2.0 authentication grant types
grantTypes.[].grantType	class java.lang.String	authorization grant type name of a grant type within a list of grant types
redirectUris	class java.lang.String	Desired list/set of redirect URIs
redirectUris.[].uri	class java.lang.String	redirect uri within a list of redirect uris
scopes	interface java.util.Set	Desired oauth2.0 authentication scopes
scopes.[].scope	class java.lang.String	Scope's name within a list of scopes
tokenSettings	class com.daveace.greenspaces.tokens ettings.TokenSettings	Desired oauth2.0 token settings
tokenSettings.format	String	Format of the token from the authorization server
tokenSettings.accessTokenTTL	Number	Time to live or expiry time of an access token

{"id":"001i","clientId":"001ci","name":"Client03","authenticationMethods":[{"id":1,"me thod":"client_secret_basic"}],"grantTypes":[{"id":1,"grantType":"authorization_code"}], "redirectUris":[{"id":1,"uri":"http://127.0.0.1:1000"}],"scopes":[{"id":1,"scope":"op enid"}],"tokenSettings":{"id":1,"format":"self-contained","accessTokenTTL":30}}

Path	Туре	Description
id	String	id of created client
clientId	String	client id of created client

Path	Туре	Description
name	String	name of created client
authenticationMethods	interface java.util.Set	Authentication Methods of the client
authenticationMethods.[].method	class java.lang.String	Authentication method name of an authentication method of the client
grantTypes	Array	Grant types of the created clients
grantTypes.[].grantType	class java.lang.String	authorization grant type name of a grant type within a list of grant types
redirectUris	Array	Redirect URIs of the created client
redirectUris.[].uri	class java.lang.String	redirect uri within a list of redirect uris
scopes	Array	Oauth2.0 Scopes of the create client
scopes.[].scope	class java.lang.String	Scope's name within a list of scopes
tokenSettings	Object	Token Settings of the create client
tokenSettings.format	String	Format of the token from the authorization server
tokenSettings.accessTokenTTL	Number	Time to live or expiry time of an access token

Retrieving a Client

cURL Request:

```
$ curl 'http://localhost:8080/clients/001i' -i -X GET \
  -H 'Content-Type: application/json;charset=UTF-8'
```

Httpie Request:

```
$ http GET 'http://localhost:8080/clients/001i' \
    'Content-Type:application/json;charset=UTF-8'
```

Http Request:

```
GET /clients/001i HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

```
HTTP/1.1 200 OK
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 0
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 337

{"id":"001i","clientId":"001ci","name":"Client03","authenticationMethods":[{"id":1,"method":"client_secret_basic"}],"grantTypes":[{"id":1,"grantType":"authorization_code"}], "redirectUris":[{"id":1,"uri":"http://127.0.0.1:1000"}],"scopes":[{"id":1,"scope":"openid"}],"tokenSettings":{"id":1,"format":"self-contained","accessTokenTTL":30}}
```

Request Parameters:

Table 11. /clients/{id}

Parameter	Description
id	UUID of client to retrieve

{"id":"001i","clientId":"001ci","name":"Client03","authenticationMethods":[{"id":1,"me thod":"client_secret_basic"}],"grantTypes":[{"id":1,"grantType":"authorization_code"}],"redirectUris":[{"id":1,"uri":"http://127.0.0.1:1000"}],"scopes":[{"id":1,"scope":"op enid"}],"tokenSettings":{"id":1,"format":"self-contained","accessTokenTTL":30}}

Path	Туре	Description
id	String	id of retrieved client
clientId	String	client id of retrieved client
name	String	name of retrieved client
authenticationMethods	interface java.util.Set	Authentication Methods of the retrieved client
authenticationMethods.[].id	class java.lang.Integer	Id of an authentication method of the retrieved client
authenticationMethods.[].method	class java.lang.String	Authentication method name of an authentication method in the retrieved client
grantTypes	Array	Grant types of the retrieved clients
<pre>grantTypes.[].grantType</pre>	class java.lang.String	authorization grant type name of a grant type within a list of grant types
redirectUris	Array	Redirect URIs of the retrieved client
redirectUris.[].uri	class java.lang.String	redirect uri within a list of redirect uris
scopes	Array	Oauth2.0 Scopes of the retrieved client
scopes.[].scope	class java.lang.String	Scope's name within a list of scopes
tokenSettings	Object	Token Settings of the retrieved client
tokenSettings.id	Number	id of the token setting from the authorization server
tokenSettings.format	String	Format of the token from the authorization server
tokenSettings.accessTokenTTL	Number	Time to live or expiry time of an access token

Retrieving all Clients

cURL Request:

```
$ curl 'http://localhost:8080/clients' -i -X GET \
  -H 'Content-Type: application/json;charset=UTF-8'
```

Httpie Request:

Http Request:

```
GET /clients HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

```
HTTP/1.1 200 OK

Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 0
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 339

[{"id":"001i","clientId":"001ci","name":"Client03","authenticationMethods":[{"id":1,"method":"client_secret_basic"}],"grantTypes":[{"id":1,"grantType":"authorization_code"}],"redirectUris":[{"id":1,"uri":"http://127.0.0.1:1000"}],"scopes":[{"id":1,"scope":"openid"}],"tokenSettings":{"id":1,"format":"self-contained","accessTokenTTL":30}}]
```

```
[{"id":"001i","clientId":"001ci","name":"Client03","authenticationMethods":[{"id":1,"method":"client_secret_basic"}],"grantTypes":[{"id":1,"grantType":"authorization_code"}],"redirectUris":[{"id":1,"uri":"http://127.0.0.1:1000"}],"scopes":[{"id":1,"scope":"openid"}],"tokenSettings":{"id":1,"format":"self-contained","accessTokenTTL":30}}]
```

Path	Туре	Description
[].id	class java.lang.Integer	id of retrieved client within a list of clients
[].clientId	class java.lang.String	client id of a retrieved client within a list of clients
[].name	class java.lang.String	name of a retrieved client within a list of clients
[].authenticationMethods	interface java.util.Set	Authentication Methods of a retrieved client within a list of clients
[].authenticationMethods.[].id	class java.lang.Integer	id of one of the authentication methods of a retrieved client within a list of clients
[].authenticationMethods.[].me thod	class java.lang.String	One of the authentication methods' name of a retrieved client within a list of clients
[].grantTypes	interface java.util.Set	Grant types of a retrieved client within a list of clients
[].grantTypes.[].id	class java.lang.Integer	id of a Grant type of the retrieved clients
[].grantTypes.[].grantType	class java.lang.String	Grant type name of one of the retrieved clients
[].redirectUris	interface java.util.Set	Redirect URIs of a retrieved client within a list of clients
[].redirectUris.[].uri	class java.lang.String	redirect uri within a list of redirect uris
[].scopes	interface java.util.Set	Oauth2.0 Scopes of a retrieved client within a list of clients
[].scopes.[].scope	class java.lang.String	Scope's name within a list of scopes
[].tokenSettings	class com.daveace.greenspaces.tokens ettings.TokenSettings	Token Settings of a retrieved client within a list of clients
[].tokenSettings.id	class java.lang.Integer	id of a token setting of a retrieved client within a list of clients
[].tokenSettings.format	class java.lang.String	Format of the token from the authorization server
[].tokenSettings.accessTokenTT L	class java.lang.Integer	Time to live or expiry time of an access token

Updating a Client

cURL Request:

```
$ curl
'http://localhost:8080/clients/001i?_csrf=uoszX_AiaIQNLnuuZazkNcaznjwaIAOt0DIvhfmnvZPw
1K0I27wLbpYXUbMgFkPPVoHQB_eLs14rFTaAtVdJsZ-RjKDApstp' -i -X PATCH \
    -H 'Content-Type: application/json;charset=UTF-8' \
    -d '{
  "id" : "001i",
  "clientId" : "001ci",
 "name" : "Client03",
  "secret": "53cr3t50$9feW1t6m3",
  "authenticationMethods" : [ {
    "id" : 1,
    "method" : "client_secret basic"
 } ],
  "grantTypes" : [ {
    "id" : 1,
    "grantType" : "authorization_code"
 } ],
  "redirectUris" : [ {
    "id" : 1,
    "uri" : "http://127.0.0.1:1000"
 } ],
  "scopes" : [ {
    "id" : 1,
    "scope": "openid"
 } ],
 "tokenSettings" : {
    "id" : 1,
    "format": "self-contained",
    "accessTokenTTL" : 30
 }
}'
```

Httpie Request:

```
$ echo '{
    "id" : "001i",
    "clientId" : "001ci",
    "name" : "Client03",
    "secret" : "53cr3t50$9feW1t6m3",
    "authenticationMethods" : [ {
        "id" : 1,
        "method" : "client_secret_basic"
    } ],
    "grantTypes" : [ {
```

```
"id" : 1,
    "grantType" : "authorization_code"
 } ],
 "redirectUris" : [ {
    "id" : 1,
    "uri": "http://127.0.0.1:1000"
 } ],
 "scopes" : [ {
    "id" : 1,
   "scope" : "openid"
 } ],
 "tokenSettings" : {
    "id" : 1,
    "format": "self-contained",
    "accessTokenTTL" : 30
 }
}' | http PATCH
'http://localhost:8080/clients/001i?_csrf=uoszX_AiaIQNLnuuZazkNcaznjwaIAOt0DIvhfmnvZPw
1K0I27wLbpYXUbMgFkPPVoHQB_eLs14rFTaAtVdJsZ-RjKDApstp' \
    'Content-Type:application/json;charset=UTF-8'
```

Http Request:

```
PATCH
/clients/001i?_csrf=uoszX_AiaIQNLnuuZazkNcaznjwaIAOt0DIvhfmnvZPwlK0I27wLbpYXUbMgFkPPVo
HQB_eLs14rFTaAtVdJsZ-RjKDApstp HTTP/1.1
Content-Type: application/json; charset=UTF-8
Content-Length: 539
Host: localhost:8080
{
  "id" : "001i",
  "clientId" : "001ci",
  "name" : "Client03",
  "secret": "53cr3t50$9feW1t6m3",
  "authenticationMethods" : [ {
    "id" : 1,
    "method" : "client_secret_basic"
  } ],
  "grantTypes" : [ {
    "id" : 1,
    "grantType" : "authorization_code"
  } ],
  "redirectUris" : [ {
    "id" : 1,
    "uri" : "http://127.0.0.1:1000"
  } ],
  "scopes" : [ {
    "id" : 1,
    "scope" : "openid"
```

```
} ],
"tokenSettings" : {
    "id" : 1,
    "format" : "self-contained",
    "accessTokenTTL" : 30
}
```

```
HTTP/1.1 200 OK
X-Content-Type-Options: nosniff
X-XSS-Protection: 0
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
```

Request Parameters:

Table 12./clients/{id}

Parameter	Description
id	UUID of the client to update

```
"id" : "001i",
"clientId" : "001ci",
"name" : "Client03",
"secret": "53cr3t50$9feW1t6m3",
"authenticationMethods" : [ {
  "id" : 1,
  "method" : "client_secret_basic"
} ],
"grantTypes" : [ {
  "id" : 1,
  "grantType" : "authorization_code"
}],
"redirectUris" : [ {
 "id" : 1,
  "uri" : "http://127.0.0.1:1000"
}],
"scopes" : [ {
  "id" : 1,
  "scope" : "openid"
} ],
"tokenSettings" : {
  "id" : 1,
  "format": "self-contained",
```

```
"accessTokenTTL" : 30
}
```

Path	Туре	Description
name	class java.lang.String	Desired client name of client to be updated
secret	class java.lang.String	Desired client secret of client to be updated
authenticationMethods	interface java.util.Set	Desired oauth2.0 authentication methods of client to be updated
authenticationMethods.[].method	class java.lang.String	Authentication method name of desired oauth2.0 authentication methods of client to be updated
grantTypes	interface java.util.Set	Desired list/set of auth2.0 authentication grant types of client to be updated
<pre>grantTypes.[].grantType</pre>	String	Authorization grant type of the client to be updated
redirectUris	class java.lang.String	Desired list/set of redirect URIs of client to be updated
redirectUris.[].uri	class java.lang.String	A redirect Uri of the client to be updated
scopes	interface java.util.Set	Desired oauth2.o authentication scopes of client to be updated
scopes.[].scope	class java.lang.String	A scope of the client to be updated
tokenSettings	<pre>class com.daveace.greenspaces.tokens ettings.TokenSettings</pre>	Desired oauth2.0 token settings of client to be updated
tokenSettings.format	class java.lang.String	Format of the access token of the client to be updated
tokenSettings.accessTokenTTL	class java.lang.Integer	Expiry time of the access token of the client to be updated

Deleting a Client

cURL Request:

```
$ curl 'http://localhost:8080/clients/001i' -i -X DELETE \
   -H 'Content-Type: application/json;charset=UTF-8'
```

Httpie Request:

```
$ http DELETE 'http://localhost:8080/clients/001i' \
    'Content-Type:application/json;charset=UTF-8'
```

Http Request:

```
DELETE /clients/001i HTTP/1.1
```

Content-Type: application/json; charset=UTF-8

Host: localhost:8080

HTTP/1.1 200 OK

X-Content-Type-Options: nosniff

X-XSS-Protection: 0

Cache-Control: no-cache, no-store, max-age=0, must-revalidate

Pragma: no-cache

Expires: 0

X-Frame-Options: DENY

Request Parameters:

Table 13. /clients/{id}

Parameter	Description
id	UUID of client to delete