Datasafe REST Service

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1. Overview

Datasafe REST Application exists for demonstration purposes of datasafe library. It consists endpoints for working with users, private documents, private documents with versioning support, public documents(documents exchange) and authentication.

2. Authentication API

3. User API

3.1. Objects

Table 1. UserDTO

Code	Description
Username	username.
Password	password.

3.2. Methods

3.2.1. Create user

This method allows to create new datasafe user. Http methods of request is PUT.

Request header

Name	Description
token	Bearer authentication token is required

Request fields

Path	Type	Description
userName	String	Name of user to create
password	String	Password of user

Example request

```
$ curl 'http://example.com/datasafe/user' -i -X PUT \
    -H 'Accept: application/json' \
    -H 'Content-Type: application/json;charset=UTF-8' \
    -H 'token: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzUxMiJ9.eyJpc3MiOiJzZWN1cmUtYXBpIiwiYXVkIjoic2VjdXJlLWFwc
CIsInN1YiI6InVzZXJuYW1lIiwiZXhwIjoxNTYzNTU5MDAwLCJyb2wiOlsiUk9MRV9VU0VSIl19.3IRw989Hr8
e7o2qJyUB1VvIoZ3hmv_CgovG6dZX6fCWkrfzEdpaQEJGNTBgvH8ft02OWrpnNHPGeyYcKX1BqXA' \
    -d '{"userName":"testUser","password":"testPassword"}'
```

Example success response

```
HTTP/1.1 200 OK
Pragma: no-cache
X-XSS-Protection: 1; mode=block
Expires: 0
X-Frame-Options: DENY
X-Content-Type-Options: nosniff
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
```

3.2.2. /user

This method deletes user and all his files from datasafe storage. Http method of request is DELETE.

Example request

```
$ curl 'http://example.com/datasafe/user' -i -X DELETE \
    -H 'Accept: application/json' \
    -H 'password: test' \
    -H 'user: test' \
    -H 'Content-Type: application/json;charset=UTF-8' \
    -H 'token: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzUxMiJ9.eyJpc3MiOiJzZWN1cmUtYXBpIiwiYXVkIjoic2VjdXJlLWFwc
CIsInN1YiI6InVzZXJuYW1lIiwiZXhwIjoxNTYzNTU5MDAwLCJyb2wiOlsiUk9MRV9VU0VSIl19.3IRw989Hr8
e7o2qJyUB1VvIoZ3hmv_CgovG6dZX6fCWkrfzEdpaQEJGNTBgvH8ft02OWrpnNHPGeyYcKX1BqXA'
```

Example success response

```
HTTP/1.1 200 OK
Pragma: no-cache
X-XSS-Protection: 1; mode=block
Expires: 0
X-Frame-Options: DENY
X-Content-Type-Options: nosniff
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
```

4. Private Document API

4.1. List Documents

4.1.1. Request header

Name	Description
token	Bearer authentication token is required
user	datasafe username
password	datasafe user's password

4.1.2. Example request

```
$ curl 'http://example.com/datasafe/documents/' -i -X GET \
    -H 'token: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzUxMiJ9.eyJpc3MiOiJzZWN1cmUtYXBpIiwiYXVkIjoic2VjdXJlLWFwc
CIsInN1YiI6InVzZXJuYW1lIiwiZXhwIjoxNTYzNTU5MDExLCJyb2xlIjolsiUk9MRV9VU0VSIl19.QmLO3ahgNt
bxt0l02k7krXWLXD5Y4Ff3uDwxZv9vudisQjIVAQCxe65HqrR6MR7IsKU_4EgDx94PS6UDSOoyIw' \
    -H 'password: test' \
    -H 'user: test'
```

4.1.3. Example success response

```
HTTP/1.1 200 OK
Pragma: no-cache
Content-Length: 21
X-XSS-Protection: 1; mode=block
Expires: 0
X-Frame-Options: DENY
X-Content-Type-Options: nosniff
Content-Type: application/json;charset=UTF-8
Cache-Control: no-cache, no-store, max-age=0, must-revalidate

["/path/to/file.txt"]
```

Response body

```
["/path/to/file.txt"]
```

4.2. Read Document

4.2.1. Request header

Name	Description
token	Bearer authentication token is required
user	datasafe username
password	datasafe user's password

4.2.2. Path fields

Table 2. /document/{path}

Parameter	Description
path	path to the file

4.2.3. Example request

```
$ curl 'http://example.com/datasafe/document/path/to/file' -i -X GET \
    -H 'token: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzUxMiJ9.eyJpc3MiOiJzZWN1cmUtYXBpIiwiYXVkIjoic2VjdXJlLWFwc
CIsInN1YiI6InVzZXJuYW1lIiwiZXhwIjoxNTYzNTU5MDExLCJyb2wiOlsiUk9MRV9VU0VSIl19.QmLO3ahgNt
bxt0l02k7krXWLXD5Y4Ff3uDwxZv9vudisQjIVAQCxe65HqrR6MR7IsKU_4EgDx94PS6UDSOoyIw' \
    -H 'password: test' \
    -H 'Accept: application/octet-stream' \
    -H 'user: test'
```

4.2.4. Example success response

```
HTTP/1.1 200 OK
Pragma: no-cache
X-XSS-Protection: 1; mode=block
Expires: 0
X-Frame-Options: DENY
X-Content-Type-Options: nosniff
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Content-Length: 12

file content
```

Response body

```
file content
```

4.3. Write Document

4.3.1. Request header

Name	Description
token	Bearer authentication token is required
user	datasafe username
password	datasafe user's password

4.3.2. Path fields

Table 3. /document/{path}

Parameter	Description
path	path to the file

4.3.3. Example request

```
$ curl 'http://example.com/datasafe/document/path/to/file' -i -X PUT \
    -H 'token: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzUxMiJ9.eyJpc3MiOiJzZWN1cmUtYXBpIiwiYXVkIjoic2VjdXJlLWFww
CIsInN1YiI6InVzZXJuYW1lIiwiZXhwIjoxNTYzNTU5MDExLCJyb2wiOlsiUk9MRV9VU0VSIl19.QmLO3ahgNt
bxt0l02k7krXWLXD5Y4Ff3uDwxZv9vudisQjIVAQCxe65HqrR6MR7IsKU_4EgDx94PS6UDSOoyIw' \
    -H 'Content-Type: application/octet-stream;charset=UTF-8' \
    -H 'password: test' \
    -H 'user: test' \
    -d 'file content'
```

4.3.4. Example success response

```
HTTP/1.1 200 OK
Pragma: no-cache
X-XSS-Protection: 1; mode=block
Expires: 0
X-Frame-Options: DENY
X-Content-Type-Options: nosniff
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
```

4.4. Remove Document

4.4.1. Request header

Name	Description
token	Bearer authentication token is required
user	datasafe username
password	datasafe user's password

4.4.2. Path fields

Table 4. /document/{path}

Parameter	Description
path	path to the file

4.4.3. Example request

```
$ curl 'http://example.com/datasafe/document/path/to/file' -i -X DELETE \
    -H 'token: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzUxMiJ9.eyJpc3MiOiJzZWN1cmUtYXBpIiwiYXVkIjoic2VjdXJlLWFwc
CIsInN1YiI6InVzZXJuYW1lIiwiZXhwIjoxNTYzNTU5MDExLCJyb2wiOlsiUk9MRV9VU0VSIl19.QmLO3ahgNt
bxt0l02k7krXWLXD5Y4Ff3uDwxZv9vudisQjIVAQCxe65HqrR6MR7IsKU_4EgDx94PS6UDSOoyIw' \
    -H 'password: test' \
    -H 'user: test'
```

4.4.4. Example success response

```
HTTP/1.1 200 OK
Pragma: no-cache
X-XSS-Protection: 1; mode=block
Expires: 0
X-Frame-Options: DENY
X-Content-Type-Options: nosniff
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
```

5. Inbox API

5.1. List Inbox

5.1.1. Request header

Name	Description
token	Bearer authentication token is required
user	datasafe username

Name	Description
password	datasafe user's password

5.1.2. Example request

```
$ curl 'http://example.com/datasafe/inbox/' -i -X GET \
    -H 'password: test' \
    -H 'token: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzUxMiJ9.eyJpc3MiOiJzZWN1cmUtYXBpIiwiYXVkIjoic2VjdXJlLWFwc
CIsInN1YiI6InVzZXJuYW1lIiwiZXhwIjoxNTYzNTU5MDE0LCJyb2wiOlsiUk9MRV9VU0VSIl19.WSf5MKNBL-
i6dt49nB_pc_JM7prL8jgSc2Ep8fRKQ2DetVR2jNqOP_wwVV-7YD9NC0R3LYIXgQlu-2g9LBaAlg' \
    -H 'user: test'
```

5.1.3. Example success response

```
HTTP/1.1 200 OK
Pragma: no-cache
Content-Length: 21
X-XSS-Protection: 1; mode=block
Expires: 0
X-Frame-Options: DENY
X-Content-Type-Options: nosniff
Content-Type: application/json;charset=UTF-8
Cache-Control: no-cache, no-store, max-age=0, must-revalidate

["/path/to/file.txt"]
```

Response body

```
["/path/to/file.txt"]
```

5.2. Read from Inbox

5.2.1. Request header

Name	Description
token	Bearer authentication token is required
user	datasafe username
password	datasafe user's password

5.2.2. Path fields

Table 5. /inbox/{path}

Parameter	Description
path	path to the file

5.2.3. Example request

```
$ curl 'http://example.com/datasafe/inbox/test.txt' -i -X GET \
    -H 'password: test' \
    -H 'Accept: application/octet-stream' \
    -H 'token: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzUxMiJ9.eyJpc3MiOiJzZWN1cmUtYXBpIiwiYXVkIjoic2VjdXJlLWFwc
CIsInN1YiI6InVzZXJuYW1lIiwiZXhwIjoxNTYzNTU5MDE0LCJyb2wiOlsiUk9MRV9VU0VSIl19.WSf5MKNBL-
i6dt49nB_pc_JM7prL8jgSc2Ep8fRKQ2DetVR2jNqOP_wwVV-7YD9NC0R3LYIXgQlu-2g9LBaAlg' \
    -H 'user: test'
```

5.2.4. Example success response

```
HTTP/1.1 200 OK
Pragma: no-cache
X-XSS-Protection: 1; mode=block
Expires: 0
X-Frame-Options: DENY
X-Content-Type-Options: nosniff
Content-Length: 5
Cache-Control: no-cache, no-store, max-age=0, must-revalidate

hello
```

Response body

```
hello
```

5.3. Write to Inbox

5.3.1. Request header

Name	Description
token	Bearer authentication token is required
users	recipients array

5.3.2. Path fields

Table 6. /inbox/{path}

Parameter	Description
path	path to the file

5.3.3. Example request

```
$ curl 'http://example.com/datasafe/inbox/test.txt' -i -X PUT \
    -H 'Content-Type: application/octet-stream;charset=UTF-8' \
    -H 'token: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzUxMiJ9.eyJpc3MiOiJzZWN1cmUtYXBpIiwiYXVkIjoic2VjdXJlLWFwc
CIsInN1YiI6InVzZXJuYW1lIiwiZXhwIjoxNTYzNTU5MDE0LCJyb2wiOlsiUk9MRV9VU0VSIl19.WSf5MKNBL-
i6dt49nB_pc_JM7prL8jgSc2Ep8fRKQ2DetVR2jNqOP_wwVV-7YD9NC0R3LYIXgQlu-2g9LBaAlg' \
    -H 'users: test' \
    -d 'file content'
```

5.3.4. Example success response

```
HTTP/1.1 200 OK
Pragma: no-cache
X-XSS-Protection: 1; mode=block
Expires: 0
X-Frame-Options: DENY
X-Content-Type-Options: nosniff
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
```

5.4. Remove from Inbox

5.4.1. Request header

Name	Description
token	Bearer authentication token is required
user	datasafe username
password	datasafe user's password

5.4.2. Path fields

Table 7. /inbox/{path}

Parameter	Description
path	path to the file

5.4.3. Example request

```
$ curl 'http://example.com/datasafe/inbox/test.txt' -i -X DELETE \
    -H 'password: test' \
    -H 'token: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzUxMiJ9.eyJpc3MiOiJzZWN1cmUtYXBpIiwiYXVkIjoic2VjdXJlLWFwwc
CIsInN1YiI6InVzZXJuYW1lIiwiZXhwIjoxNTYzNTU5MDE0LCJyb2wiOlsiUk9MRV9VU0VSIl19.WSf5MKNBL-
i6dt49nB_pc_JM7prL8jgSc2Ep8fRKQ2DetVR2jNqOP_wwVV-7YD9NC0R3LYIXgQlu-2g9LBaAlg' \
    -H 'user: test'
```

5.4.4. Example success response

```
HTTP/1.1 200 OK
Pragma: no-cache
X-XSS-Protection: 1; mode=block
Expires: 0
X-Frame-Options: DENY
X-Content-Type-Options: nosniff
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
```

6. Versioned Document API

6.1. List Documents

6.1.1. Request header

Name	Description
token	Bearer authentication token is required
user	datasafe username
password	datasafe user's password

6.1.2. Example request

```
$ curl 'http://example.com/datasafe/versioned/' -i -X GET \
    -H 'password: test' \
    -H 'user: test' \
    -H 'Content-Type: application/json;charset=UTF-8' \
    -H 'token: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzUxMiJ9.eyJpc3MiOiJzZWN1cmUtYXBpIiwiYXVkIjoic2VjdXJlLWFwwc
CIsInN1YiI6InVzZXJuYW1lIiwiZXhwIjoxNTYzNTU5MDA0LCJyb2wiOlsiUk9MRV9VU0VSIl19.FBsYqnTlkE
axj8DrldkBTU-ytHiPpor2T5v0l2HqLnt7b8L-v0M7I7srGPcEbA5mykcFmakiDqpQT_wv_2qwfA'
```

6.1.3. Example success response

```
HTTP/1.1 200 OK
Pragma: no-cache
Content-Length: 21
X-XSS-Protection: 1; mode=block
Expires: 0
X-Frame-Options: DENY
X-Content-Type-Options: nosniff
Content-Type: application/json;charset=UTF-8
Cache-Control: no-cache, no-store, max-age=0, must-revalidate


["/path/to/file.txt"]
```

Response body

```
["/path/to/file.txt"]
```

6.2. Read Document

6.2.1. Request header

Name	Description
token	Bearer authentication token is required
user	datasafe username
password	datasafe user's password

6.2.2. Path fields

Table 8. /versioned/{path}

Parameter	Description
path	path to the file

6.2.3. Example request

```
$ curl 'http://example.com/datasafe/versioned/path/to/file' -i -X GET \
    -H 'password: test' \
    -H 'Accept: application/octet-stream' \
    -H 'user: test' \
    -H 'token: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzUxMiJ9.eyJpc3MiOiJzZWN1cmUtYXBpIiwiYXVkIjoic2VjdXJlLWFwc
CIsInN1YiI6InVzZXJuYW1lIiwiZXhwIjoxNTYzNTU5MDA0LCJyb2wiOlsiUk9MRV9VU0VSIl19.FBsYqnTlkE
axj8DrldkBTU-ytHiPpor2T5v0l2HqLnt7b8L-v0M7I7srGPcEbA5mykcFmakiDqpQT_wv_2qwfA'
```

6.2.4. Example success response

```
HTTP/1.1 200 OK
Pragma: no-cache
X-XSS-Protection: 1; mode=block
Expires: 0
X-Frame-Options: DENY
X-Content-Type-Options: nosniff
Content-Length: 5
Cache-Control: no-cache, no-store, max-age=0, must-revalidate

hello
```

Response body

```
hello
```

6.3. Write Document

6.3.1. Request header

Name	Description
token	Bearer authentication token is required
user	datasafe username
password	datasafe user's password

6.3.2. Path fields

Table 9. /versioned/{path}

Parameter	Description
path	path to the file

6.3.3. Example request

```
$ curl 'http://example.com/datasafe/versioned/path/to/file' -i -X PUT \
    -H 'Content-Type: application/octet-stream;charset=UTF-8' \
    -H 'password: test' \
    -H 'user: test' \
    -H 'token: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzUxMiJ9.eyJpc3MiOiJzZWN1cmUtYXBpIiwiYXVkIjoic2VjdXJlLWFwc
CIsInN1YiI6InVzZXJuYW1lIiwiZXhwIjoxNTYzNTU5MDA0LCJyb2wiOlsiUk9MRV9VU0VSIl19.FBsYqnTlkE
axj8DrldkBTU-ytHiPpor2T5v0l2HqLnt7b8L-v0M7I7srGPcEbA5mykcFmakiDqpQT_wv_2qwfA' \
    -d 'file content'
```

6.3.4. Example success response

```
HTTP/1.1 200 OK
Pragma: no-cache
X-XSS-Protection: 1; mode=block
Expires: 0
X-Frame-Options: DENY
X-Content-Type-Options: nosniff
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
```

6.4. Remove Document

6.4.1. Request header

Name	Description
token	Bearer authentication token is required
user	datasafe username
password	datasafe user's password

6.4.2. Path fields

Table 10. /versioned/{path}

Parameter	Description
path	path to the file

6.4.3. Example request

```
$ curl 'http://example.com/datasafe/versioned/path/to/file' -i -X DELETE \
    -H 'password: test' \
    -H 'user: test' \
    -H 'token: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzUxMiJ9.eyJpc3MiOiJzZWN1cmUtYXBpIiwiYXVkIjoic2VjdXJlLWFwc
CIsInN1YiI6InVzZXJuYW1lIiwiZXhwIjoxNTYzNTU5MDA0LCJyb2wiOlsiUk9MRV9VU0VIl19.FBsYqnTlkE
axj8DrldkBTU-ytHiPpor2T5v0l2HqLnt7b8L-v0M7I7srGPcEbA5mykcFmakiDqpQT_wv_2qwfA'
```

6.4.4. Example success response

```
HTTP/1.1 200 OK
Pragma: no-cache
X-XSS-Protection: 1; mode=block
Expires: 0
X-Frame-Options: DENY
X-Content-Type-Options: nosniff
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
```