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# Textual Index

## Introduction

A textual index is a data structure used in database systems to facilitate efficient search and retrieval of text-based information. It is designed to handle large volumes of textual data and provide quick access to relevant documents or records based on specified search criteria.

When a search query is performed on a database with a textual index, the index is queried to identify relevant documents or records that match the search terms. The index provides information about the location and relevance of the documents, which enables the database system to retrieve and present the results in a timely manner.

Textual indexes play a crucial role in enabling efficient search and retrieval of textual information in databases, making them an essential component in applications that handle large volumes of textual data, such as search engines, content management systems, and document repositories.

Soffid incorporates the textual index from version 3.5 using [the Apache Lucene library](#).

## Index configuration

Soffid allows you to configure the objects you want to use in the textual index. To do this, you must select the proper object from the metadata page and enable the option "Use textual index". Once you enable this option, the textual index will be applied to the attributes of this object that have been included in the quick search.

Notice, from the user interface, it is not interpreted as a Lucene expression.

## Example

1. Enable the "Use textual index" on the User object and save the changes.

Object type :

Description :

Use textual index : ☒ Yes ☐ II ☒ III

Code	Label	Data type	Built-in type
Filter	Filter	Filter	Filter
<input type="checkbox"/> __COMMONATTRIBUTES__	Common attributes	Separator	Yes
<input type="checkbox"/> userName	User name	String	Yes
<input type="checkbox"/> firstName	First name	String	Yes
<input type="checkbox"/> lastName	Last Name	String	Yes
<input type="checkbox"/> middleName	Middle name	String	Yes

## 2. Check the attributes included in the quick search.

Attribute metadata

Code :

Label :

Data type :

Letter case :

User hint :

Description :

Required : ☒ Yes ☐ II

Include in quick search : ☒ Yes ☐ II

Prevent duplicated values : ☐ II ☐ No

Multiple values : ☐ II ☐ No

Maximum number of rows to display :

# How does the user interface search work?

Once you have configured the textual index for a specific object, Soffid will apply it when you use Quick Search on this object.

## Example 1

1. If you search for users using the text "*frankin*", then Soffid will display all the users whose userName, firstName, lastName, or middleName match, to some degree, with the typed text following the textual index rules.

soffid

Search

?

[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

frankin

Quick Basic Advanced

<input type="checkbox"/>	▼ User name	↕ First name	↕ Last Name	↕ Primary group	↕ Enabled	↕ Manager
<input type="checkbox"/>	aretha	Aretha	Franklin	world	Yes	
<input type="checkbox"/>	frank	Frank	Sinatra	Music	Yes	
<input type="checkbox"/>	frankrudolph	Frank Rudolph	Olson	scientist	Yes	
<input type="checkbox"/>	franks	Frank	Sherwood	scientist	Yes	
<input type="checkbox"/>	rfranklin	Rosalind	Franklin	scientist	Yes	

Displayed rows: 5

2. If you include the attribute manager in the quick search:

soffid

Attribute metadata

[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

Object type :

Description :

Use textual index :

Code

Filter

☐ rid
 ☐ fullName
 ☐ birthDate
 ☐ picture
 ☐ \_\_ORGANIZATION
 ☐ userType

Attribute metadata

◀ 15 / 32 ▶

Code :

manager

Label :

Manager

Data type :

User

User hint :

User hint

Description :

Description

Required :

☐ Yes
 ☐ No

Include in quick search :

☒ Yes
 ☐ No

Prevent duplicated values :

☐ Yes
 ☐ No

Multiple values :

☐ Yes
 ☐ No

Maximum number of rows to display :

3. And search for "frankin", then Soffid will display all the users whose userName, firstName, lastName, middleName, or manager match with the typed text following the textual index rules.

soffid

Search

?

[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

frankin

Quick Basic Advanced

<input type="checkbox"/>	▼ User name	↕ First name	↕ Last Name	↕ Primary group	↕ Enabled	↕ Manager
<input type="checkbox"/>	aretha	Aretha	Franklin	world	Yes	
<input type="checkbox"/>	frank	Frank	Sinatra	Music	Yes	
<input type="checkbox"/>	frankrudolph	Frank Rudolph	Olson	scientist	Yes	
<input type="checkbox"/>	franks	Frank	Sherwood	scientist	Yes	
<input type="checkbox"/>	hlamarr	Hedy	Lamarr	scientist	Yes	franks
<input type="checkbox"/>	inewton	Isaac	Newton	scientist	Yes	frank
<input type="checkbox"/>	janis	Janis	Joplin	Music	Yes	frank
<input type="checkbox"/>	rfranklin	Rosalind	Franklin	scientist	Yes	

Displayed rows: 8

## Example 2

1. If you search for users using the text "manager:frank" Soffid will display all users whose manager matches the text "frank".

soffid

Search

?

⚙

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🔍

[Quick](#)
[Basic](#)
[Advanced](#)

<input type="checkbox"/>	▼ User name	↕ Full name	↕ Primary group	↕ Enabled	↕ First name	↕ Last Name	↕ Manager
<input type="checkbox"/>	hlamarr	Hedy Lamarr	scientist	Yes	Hedy	Lamarr	franks
<input type="checkbox"/>	inewton	Isaac Newton	scientist	Yes	Isaac	Newton	frank
<input type="checkbox"/>	janis	Janis Joplin	Music	Yes	Janis	Joplin	frank
<input type="checkbox"/>	ntesla	Nikola Tesla	Support IT	Yes	Nikola	Tesla	frankrudolph

Displayed rows: 4

Notice the difference by searching "manager:frank?":

soffid

Search

?

⚙

[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

🔍

[Quick](#)
[Basic](#)
[Advanced](#)

<input type="checkbox"/>	▼ User name	↕ Full name	↕ Primary group	↕ Enabled	↕ First name	↕ Last Name	↕ Manager
<input type="checkbox"/>	hlamarr	Hedy Lamarr	scientist	Yes	Hedy	Lamarr	franks
<input type="checkbox"/>	ntesla	Nikola Tesla	Support IT	Yes	Nikola	Tesla	frankrudolph

Displayed rows: 2

And by searching "manager:frank\*":

soffid

Search

?

⚙

[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

🔍

[Quick](#)
[Basic](#)
[Advanced](#)

<input type="checkbox"/>	▼ User name	↕ Full name	↕ Primary group	↕ Enabled	↕ First name	↕ Last Name	↕ Manager
<input type="checkbox"/>	hlamarr	Hedy Lamarr	scientist	Yes	Hedy	Lamarr	franks
<input type="checkbox"/>	inewton	Isaac Newton	scientist	Yes	Isaac	Newton	frank
<input type="checkbox"/>	janis	Janis Joplin	Music	Yes	Janis	Joplin	frank
<input type="checkbox"/>	ntesla	Nikola Tesla	Support IT	Yes	Nikola	Tesla	frankrudolph

Displayed rows: 4

And also by searching "manager:fr\*"

soffid

Search

?

⚙

[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

🔍

[Quick](#)
[Basic](#)
[Advanced](#)

<input type="checkbox"/>	▼ User name	↕ Full name	↕ Primary group	↕ Enabled	↕ First name	↕ Last Name	↕ Manager
<input type="checkbox"/>	etaylor	Elizabeth Taylor	Movie Stars	Yes	Elizabeth	Taylor	freddie
<input type="checkbox"/>	hlamarr	Hedy Lamarr	scientist	Yes	Hedy	Lamarr	franks
<input type="checkbox"/>	inewton	Isaac Newton	scientist	Yes	Isaac	Newton	frank
<input type="checkbox"/>	janis	Janis Joplin	Music	Yes	Janis	Joplin	frank
<input type="checkbox"/>	ntesla	Nikola Tesla	Support IT	Yes	Nikola	Tesla	frankrudolph

Displayed rows: 5

### Example 3

1. If you search for users using the text "userName:frank\*" Soffid will display all users whose user name matches the text "frank" followed by any other text.

soffid

Search

?

⚙

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Quick Basic Advanced

<input type="checkbox"/>	▼ User name	↕ Full name	↕ Primary group	↕ Enabled	↕ First name	↕ Last Name	↕ Manager
<input type="checkbox"/>	frank	Frank Sinatra	Music	Yes	Frank	Sinatra	
<input type="checkbox"/>	frankrudolph	Frank Rudolph Olson	scientist	Yes	Frank Rudolph	Olson	
<input type="checkbox"/>	franks	Frank Sherwood	scientist	Yes	Frank	Sherwood	

Displayed rows: 3

Notice the difference by searching the text "userName:frank?":

soffid

Search

?

⚙

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Quick Basic Advanced

<input type="checkbox"/>	▼ User name	↕ Full name	↕ Primary group	↕ Enabled	↕ First name	↕ Last Name	↕ Manager
<input type="checkbox"/>	frankrudolph	Frank Rudolph Olson	scientist	Yes	Frank Rudolph	Olson	
<input type="checkbox"/>	franks	Frank Sherwood	scientist	Yes	Frank	Sherwood	

Displayed rows: 2

## Example 4

- If you search for users using the text "frank" plus the wildcard "?", Soffid will display all users whose userName, firstName, lastName, middleName, or manager match the typed text as long as it has variation in the characters where the wildcard has been used.

soffid

Search

?

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Quick Basic Advanced

<input type="checkbox"/>	▼ User name	↕ First name	↕ Last Name	↕ Primary group	↕ Enabled	↕ Manager
<input type="checkbox"/>	aretha	Aretha	Franklin	world	Yes	
<input type="checkbox"/>	frankrudolph	Frank Rudolph	Olson	scientist	Yes	
<input type="checkbox"/>	franks	Frank	Sherwood	scientist	Yes	
<input type="checkbox"/>	hlamarr	Hedy	Lamarr	scientist	Yes	franks
<input type="checkbox"/>	ntesla	Nikola	Tesla	Support IT	Yes	frankrudolph
<input type="checkbox"/>	rfranklin	Rosalind	Franklin	scientist	Yes	

Displayed rows: 6

Notice the difference by searching "fran?"

soffid

Search

?

⚙

[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

Quick Basic Advanced

<input type="checkbox"/>	▼ User name	↕ First name	↕ Last Name	↕ Primary group	↕ Enabled	↕ Manager
<input type="checkbox"/>	aretha	Aretha	Franklin	world	Yes	
<input type="checkbox"/>	frank	Frank	Sinatra	Music	Yes	
<input type="checkbox"/>	frankrudolph	Frank Rudolph	Olson	scientist	Yes	
<input type="checkbox"/>	franks	Frank	Sherwood	scientist	Yes	
<input type="checkbox"/>	hlamarr	Hedy	Lamarr	scientist	Yes	franks
<input type="checkbox"/>	inewton	Isaac	Newton	scientist	Yes	frank
<input type="checkbox"/>	janis	Janis	Joplin	Music	Yes	frank
<input type="checkbox"/>	ntesla	Nikola	Tesla	Support IT	Yes	frankrudolph
<input type="checkbox"/>	rfranklin	Rosalind	Franklin	scientist	Yes	

Displayed rows: 9

# How does the SCIM interface search work?

1. First of all, you must install the SCIM addon in Soffid.

For more information, you can visit [the How to install SCIM in Soffid? page](#).

2. Then, you can use any REST client to test and consume our SCIM REST web service.

For more information, you can visit [the Testing tool page](#).

3. Finally, you can start to use the SCIM interface search by using Lucene syntaxis

## Lucene syntaxis

Please browse the standard specifications in this link:

<https://bookstack.soffid.com/books/soffid-3-reference-guide/page/lucene-query-parser-syntax>

## Term Modifiers

Lucene supports modifying query terms to provide a wide range of search options. Here are the most common ones:

<b>Wildcard Searches</b>	To perform a single character wildcard search use the "?" symbol. To perform a multiple character wildcard search use the "*" symbol.
<b>Regular Expression Searches</b>	Lucene supports regular expression searches matching a pattern between forward slashes "/"

<b>Fuzzy Searches</b>	<p>To do a fuzzy search use the tilde, "~", symbol at the end of a Single word Term</p> <p><u>Soffid Console &lt;= 3.4 version</u></p> <p>~0.8: stricter search</p> <p>~0.1: more lax search</p> <p><u>Soffid Console &gt; 3.4 version</u></p> <p>An additional (optional) parameter can specify the maximum number of edits allowed. The value is between 0 and 2.</p>
<b>Range Searches</b>	<p>Range Queries allow one to match documents whose field(s) values are between the lower and upper bound specified by the Range Query</p>
<b>Boosting a Term</b>	<p>To boost a term use the caret, "^", symbol with a boost factor (a number) at the end of the term you are searching. The higher the boost factor, the more relevant the term will be.</p>

## Boolean Operators

<b>OR</b>	The OR operator links two terms and finds a matching document if either of the terms exist in a document. This is equivalent to a union using sets
<b>AND</b>	The AND operator matches documents where both terms exist anywhere in the text of a single document. This is equivalent to an intersection using sets.
<b>+</b>	The "+" or required operator requires that the term after the "+" symbol exist somewhere in a the field of a single document.
<b>NOT</b>	The NOT operator excludes documents that contain the term after NOT. This is equivalent to a difference using sets.
<b>-</b>	The "-" or prohibit operator excludes documents that contain the term after the "-" symbol.

## Escaping Special Characters

Lucene supports escaping special characters that are part of the query syntax.

The current list of special characters are + - & || ! ( ) { } [ ] ^ " ~ \* ? : \ /

## Examples

### Example 1

1. Use the wildcard search

## 1.1.\*

### Request

```
GET http://<domain>/webservice/scim2/v1/User?textFilter=fran*
```

### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 4,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Franklin",
      "createdByUser": "ActiveDirectory",
      "fullName": "Rosalind Franklin",
      "active": true,
      "userName": "rfranklin",
      "mailAlias": "",
      "firstName": "Rosalind",
      "createdDate": "2023-08-08 14:26:14",
      "multiSession": true,
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862",
        "links": {
          "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'rfranklin'+and+enabled+eq+true",
          "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'rfranklin'+and+disabled+eq+false",
          "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'rfranklin'",
          "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'rfranklin'",
          "effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862/effectiveGrants"
```

```
    },
    "resourceType": "User"
  },
  "modifiedByUser": "ActiveDirectory",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
  ],
  "modifiedDate": "2023-08-08 14:26:14",
  "attributes": {},
  "id": 2862,
  "userType": "I",
  "primaryGroupDescription": "scientist",
  "primaryGroup": "scientist"
},
{
  "lastName": "Franklin",
  "createdByUser": "ActiveDirectory",
  "fullName": "Aretha Franklin",
  "active": true,
  "userName": "aretha",
  "mailAlias": "",
  "firstName": "Aretha",
  "createdDate": "2023-09-06 13:12:54",
  "multiSession": true,
  "meta": {
    "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397",
    "links": {
      "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'aretha'+and+enabled+eq+true",
      "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'aretha'+and+disabled+eq+false",
      "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'aretha'",
      "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'aretha'",
      "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397/effectiveGrants"
```

```
    },
    "resourceType": "User"
  },
  "modifiedByUser": "ActiveDirectory",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
  ],
  "modifiedDate": "2023-09-06 13:12:54",
  "attributes": {},
  "id": 276397,
  "userType": "I",
  "primaryGroupDescription": "World",
  "primaryGroup": "world"
},
{
  "lastName": "Sinatra",
  "createdByUser": "ActiveDirectory",
  "fullName": "Frank Sinatra",
  "active": true,
  "userName": "frank",
  "mailAlias": "",
  "firstName": "Frank",
  "createdDate": "2023-09-06 13:12:54",
  "multiSession": true,
  "meta": {
    "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
    "links": {
      "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+eq+true",
      "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+false",
      "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'frank'",
      "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'frank'",
      "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
```

```
    },
    "resourceType": "User"
  },
  "modifiedByUser": "ActiveDirectory",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
  ],
  "modifiedDate": "2023-09-06 13:12:55",
  "attributes": {},
  "id": 276435,
  "userType": "I",
  "primaryGroupDescription": "Music",
  "primaryGroup": "Music"
},
{
  "lastName": "Sherwood",
  "createdByUser": "pgarcia",
  "fullName": "Frank Sherwood",
  "active": true,
  "userName": "franks",
  "mailAlias": "",
  "firstName": "Frank",
  "createdDate": "2023-10-05 15:32:40",
  "multiSession": false,
  "meta": {
    "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644",
    "links": {
      "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'franks'+and+enabled+eq+true",
      "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'franks'+and+disabled+eq+false",
      "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'franks'",
      "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'franks'",
      "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644/effectiveGrants"
```

```
    },
    "resourceType": "User"
  },
  "modifiedByUser": "pgarcia",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
  ],
  "modifiedDate": "2023-10-05 15:32:40",
  "attributes": {},
  "id": 432644,
  "userType": "I",
  "primaryGroupDescription": "scientist",
  "primaryGroup": "scientist"
}
]
}
```

## 1.2. ?

### Request

```
http://<domain>/webservice/scim2/v1/User?textFilter=fran?
```

### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 2,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Sinatra",
      "createdByUser": "ActiveDirectory",
      "fullName": "Frank Sinatra",
      "active": true,
      "userName": "frank",
      "mailAlias": "",
      "firstName": "Frank",
      "createdDate": "2023-09-06 13:12:54",

```

```
"multiSession": true,
"meta": {
  "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
  "links": {
    "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+eq+true",
    "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+false",
    "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'frank'",
    "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'frank'",
    "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
  },
  "resourceType": "User"
},
"modifiedByUser": "ActiveDirectory",
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-09-06 13:12:55",
"attributes": {},
"id": 276435,
"userType": "I",
"primaryGroupDescription": "Music",
"primaryGroup": "Music"
},
{
  "lastName": "Sherwood",
  "createdByUser": "pgarcia",
  "fullName": "Frank Sherwood",
  "active": true,
  "userName": "franks",
  "mailAlias": "",
  "firstName": "Frank",
  "createdDate": "2023-10-05 15:32:40",
```

```

    "multiSession": false,
    "meta": {
      "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644",
      "links": {
        "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'franks'+and+enabled+eq+true",
        "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'franks'+and+disabled+eq+false",
        "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'franks'",
        "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'franks'",
        "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644/effectiveGrants"
      },
      "resourceType": "User"
    },
    "modifiedByUser": "pgarcia",
    "schemas": [
      "urn:soffid:com.soffid.iam.api.User"
    ],
    "modifiedDate": "2023-10-05 15:32:40",
    "attributes": {},
    "id": 432644,
    "userType": "I",
    "primaryGroupDescription": "scientist",
    "primaryGroup": "scientist"
  }
]
}

```

## Example 2

1. Use the wildcard search in a specific attribute

### Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=userName:frank
```

## Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 1,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Sinatra",
      "profileServer": "Void host",
      "createdByUser": "admin",
      "fullName": "Frankaaa Sinatra",
      "active": true,
      "userName": "frank",
      "mailAlias": "",
      "mailServer": "Void host",
      "firstName": "Frankaaa",
      "emailAddress": "pgarcia@soffid.com",
      "mailDomain": "soffid.com",
      "createdDate": "2023-06-02 07:41:47",
      "multiSession": false,
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/3910",
        "links": {
          "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+eq+true",
          "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+false",
          "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'frank'",
          "effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/3910/effectiveGrants"
        },
        "resourceType": "User"
      },
      "modifiedByUser": "admin",
```

```
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-06-02 07:41:47",
"attributes": {
  "picture":
```

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pNe6X9oITqUvrY6i54Wmqczp0ATiAnToH//2Q=="

```
    },  
    "id": 3910,  
    "userType": "I",  
    "homeServer": "Void host",  
    "shortName": "pgarcia",  
    "primaryGroupDescription": "Music",  
    "primaryGroup": "Music"  
  }  
]  
}
```

## Example 3

## 1. Use the Fuzzy Searches

### Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=fran~
```

### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 2,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Sinatra",
      "createdByUser": "ActiveDirectory",
      "fullName": "Frank Sinatra",
      "active": true,
      "userName": "frank",
      "mailAlias": "",
      "firstName": "Frank",
      "createdDate": "2023-09-06 13:12:54",
      "multiSession": true,
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
        "links": {
          "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+eq+true",
          "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+false",
          "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'frank'",
          "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'frank'",
          "effectiveGrants":
```

```
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"

  },
  "resourceType": "User"
},
"modifiedByUser": "ActiveDirectory",
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-09-06 13:12:55",
"attributes": {},
"id": 276435,
"userType": "I",
"primaryGroupDescription": "Music",
"primaryGroup": "Music"
},
{
  "lastName": "Sherwood",
  "createdByUser": "pgarcia",
  "fullName": "Frank Sherwood",
  "active": true,
  "userName": "franks",
  "mailAlias": "",
  "firstName": "Frank",
  "createdDate": "2023-10-05 15:32:40",
  "multiSession": false,
  "meta": {
    "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644",
    "links": {
      "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'franks'+and+enabled+eq+true",
      "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'franks'+and+disabled+eq+false",
      "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'franks'",
      "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'franks'",
      "effectiveGrants":
```

```
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644/effectiveGrants"
  },
  "resourceType": "User"
},
"modifiedByUser": "pgarcia",
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-10-05 15:32:40",
"attributes": {},
"id": 432644,
"userType": "I",
"primaryGroupDescription": "scientist",
"primaryGroup": "scientist"
}
]
}
```

## 2. Use the Fuzzy Searches: specify the maximum number of edits allowed

### Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=frankl~2
```

### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 4,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Franklin",
      "createdByUser": "ActiveDirectory",
      "fullName": "Rosalind Franklin",
      "active": true,
      "userName": "rfranklin",
      "mailAlias": "",
      "firstName": "Rosalind",

```

```
"createdDate": "2023-08-08 14:26:14",
"multiSession": true,
"meta": {
  "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862",
  "links": {
    "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'rfranklin'+and+enabled+eq+true",
    "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'rfranklin'+and+disabled+eq+false",
    "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'rfranklin'",
    "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'rfranklin'",
    "effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862/effectiveGrants"
  },
  "resourceType": "User"
},
"modifiedByUser": "ActiveDirectory",
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-08-08 14:26:14",
"attributes": {},
"id": 2862,
"userType": "I",
"primaryGroupDescription": "scientist",
"primaryGroup": "scientist"
},
{
  "lastName": "Franklin",
  "createdByUser": "ActiveDirectory",
  "fullName": "Aretha Franklin",
  "active": true,
  "userName": "aretha",
  "mailAlias": "",
  "firstName": "Aretha",
  "createdDate": "2023-09-06 13:12:54",
```

```
"multiSession": true,
"meta": {
  "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397",
  "links": {
    "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'aretha'+and+enabled
+eq+true",
    "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'aretha'+and+disabled+eq+f
alse",
    "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+e
q+'aretha'",
    "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'aretha'",
    "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397/effectiveGrants"
  },
  "resourceType": "User"
},
"modifiedByUser": "ActiveDirectory",
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-09-06 13:12:54",
"attributes": {},
"id": 276397,
"userType": "I",
"primaryGroupDescription": "World",
"primaryGroup": "world"
},
{
  "lastName": "Sinatra",
  "createdByUser": "ActiveDirectory",
  "fullName": "Frank Sinatra",
  "active": true,
  "userName": "frank",
  "mailAlias": "",
  "firstName": "Frank",
  "createdDate": "2023-09-06 13:12:54",
```

```
"multiSession": true,
"meta": {
  "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
  "links": {
    "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+eq+true",
    "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+false",
    "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'frank'",
    "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'frank'",
    "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
  },
  "resourceType": "User"
},
"modifiedByUser": "ActiveDirectory",
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-09-06 13:12:55",
"attributes": {},
"id": 276435,
"userType": "I",
"primaryGroupDescription": "Music",
"primaryGroup": "Music"
},
{
  "lastName": "Sherwood",
  "createdByUser": "pgarcia",
  "fullName": "Frank Sherwood",
  "active": true,
  "userName": "franks",
  "mailAlias": "",
  "firstName": "Frank",
  "createdDate": "2023-10-05 15:32:40",
```

```

    "multiSession": false,
    "meta": {
      "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644",
      "links": {
        "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'franks'+and+enabled+eq+true",
        "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'franks'+and+disabled+eq+false",
        "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'franks'",
        "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'franks'",
        "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644/effectiveGrants"
      },
      "resourceType": "User"
    },
    "modifiedByUser": "pgarcia",
    "schemas": [
      "urn:soffid:com.soffid.iam.api.User"
    ],
    "modifiedDate": "2023-10-05 15:32:40",
    "attributes": {},
    "id": 432644,
    "userType": "I",
    "primaryGroupDescription": "scientist",
    "primaryGroup": "scientist"
  }
]
}

```

## Example 4

### 1. Use the boolean operator AND

#### Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=fran~ AND Sinatra
```

## Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 1,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Sinatra",
      "profileServer": "Void host",
      "createdByUser": "admin",
      "fullName": "Frankaaa Sinatra",
      "active": true,
      "userName": "frank",
      "mailAlias": "",
      "mailServer": "Void host",
      "firstName": "Frankaaa",
      "emailAddress": "pgarcia@soffid.com",
      "mailDomain": "soffid.com",
      "createdDate": "2023-06-02 07:41:47",
      "multiSession": false,
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/3910",
        "links": {
          "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+eq+true",
          "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+false",
          "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'frank'",
          "effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/3910/effectiveGrants"
        },
        "resourceType": "User"
      },
      "modifiedByUser": "admin",
```

```
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-06-02 07:41:47",
"attributes": {
  "picture":
```

Ne+Q8Hh6yEAG/jrL6i1S3bbTugYXaXQ1kVnDLZbm2rE6nyGhHpM9sZiuJS2mtp6ltrFKtJgd1tTPLqFT65SN94HsuGfsA  
nu+Ufhgt75QfLjluz+1RvxtHYapAj4/C02a5WxBBvoDod17eMqcZsNajEq+W9iyIqWJGgOp0PfNTXoh1uN8rv4fnp++c  
BcFhkw6ZFYm9yxvqzHS5t4W8pG/gUe5YAchbcJMTBrvzEwopiBUrg8h/4IZtB7dkbyQB56TQ4phaZjFDNUQd9/Td8bQI  
229ji9RKiXznsuP5V7Kn0EvcEgzKo1ChU89Xb/avrCVqjVLKbE72tckHSwHG5Mk7OweRdd9txNyL6knmx4+AECTOvH  
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7PNqWJUaLenUI4Am6E+eYeYmDw9UBh37/Oe5VqSujl6hkYZWU6gg8JgdrdBEO5qwxGSGiNSGQu4/IQgjOeAvr4wM1s  
XH9VVKndfT4zd0cfmE80xrlxF5ncKb2DEFhY21K6E7t3OXuwt07Ij8PIA2Ard3nO6y5sYGIvBj0S8Cg6Z4oCnkHEzE7Io5  
6qjvvL/ppibsEXgLmM6G4G5LnU7v1gej7Jp2pnw/f78JGXeRLHZOnZ5iQ8ahDHxgHwb8L/v8AZkhwDvEqkdI13jjlIDFBh  
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DtH7icB+7wJWz3GQ7rF2IsLC4VLI3C418pJw1TIwPCQcC+dKiBizLaqtxY2HZf4FT5Q9B8ynmNfKBv8AAV8wUjWWO0t  
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RYF6ii1+qB/mOLuPMYRQqZtFBb/s1s/wD8Fa5bwgREwrUzmFDEp/NScOO7ULb4yQtRa182WsRvV16rEabyrrcOd+hj  
PdEZFQK9xIL5M6B8PURt5zpqmnd6wjUc5Hb/E02z0yQt6iWuAHHtEAzhqQdYA8QV6tTmaphnOVs4+sovpoDztqOB  
A3XIXicJTRnTE1atwQaZUB1dCLhrsRv/MS4p4hAGqZPqqnYxFlb0YnR0HAX1XkbjIB1kdCEV1z01vSqEArUwzm7C5BtY  
dsb9zCBncSuEX2RWfvZkXX+mV75T7FEkcNWf8psHbEnQYnDaaAhqY9Oxf4SsxeHrn28ZT8qxPwUAQKEdYNYzf6Lf7  
o1jV4sB/Uo+XhCYvCoNTXVj3Bm+N5DyJ9o+SvDU69VHV1cZlII7SnX9P1nqGx9pJWpo67yOOL+y3vCeTOE4FvSXHR  
naYo1At+w5AJ3Wf3Tv47vTIA1u2+jpZzXw1g+903BjxZTUdcxuO/TjQrtipSbl6spG9WfJ6H5zbUsRcSPjXUizqGHjGhX  
gRMN0ipMmrWPlx9Hb6D3x6yH/8AzqbGwo0/wLNBszohhaq2enlb7SGx9LW9RArk/SBdynOeAGvryjMCjM2dzdcADc  
o7uZ75dYno3h6JP1yIBpeoMgNt4DAENbQHdaRa+TIWoulWxCk03R+0QSq2U3zEA2HceUCsw1Km1Zmex6u1g1rDj  
mN+QmgwLtUzCklkKs9ygdTvAG8i3Ezz7Z2MV8Qrkgrmtl4HS4J5ier7LqLYeEBINcgHYJUb8upHlxHhrlfSHfKcJWdWB  
C0y6nvWzD4iX7rxEwfTqkilSzMqVDcqpsrOpv6nTTja8Cg2p0g69FppfddzyEi7FT64abpV0WBHYBuxsANSeQ75othbjc  
1O2xVtDIWxIHedwgegbLY2F5Kx9MMpHAjXzkBD0coGpPiZIfvbwPLsVhVpv1Tajrh3v/ANGsSabX5JUUVk0hKC5Abew  
Gcfz64asfU03mk6V0Q532zjqSeRftU2Pg6IP6zM2WLHNuNTK/eDUU0qg7stVEPnAFg665ErFRmpDqcQm7rKT9gP4i+  
U94Uy96A1sISpSvcG4/qT2GH3ILfglFtHDhLOvsYijUvbXtg3YfiVJJ2VieorLWJy5KjUqwlJ3lijEDXUZlvtxgemMIwiSaRV1  
V0lZWAlI1BB3WliMkCPaDtjBgvoBoEWfd1RS7sFUbyTYTp0DC9lekj1wUpgrR5nKvWcLI3ITL/KA/eAZQI/86eeKcHw7C  
hR6Tp0Agruod7aC9PGo1rm2qtra54+sl6Z2am7KtVWVqfWU6ahxbRS677k6Xup011iToBqdRsz5Ulc/wCdhXvapze  
mTx423jeMwjKioEUhyaOb6up/4mHqb8j21tfXTxHI9OgdUZyzOFXrkU9ft9yvSPtOoGhuLE27mG6MWmjotLP2HzNh6j  
WBR/foudwBNvPKdxnToFfhKN1KnCO7U2NNyr1PbXmoBANiDbviVqCa5sFWHi9QfNPGLogVmKRPdwr373qH4BRKm  
op4Ubd1nPznToAWY/YH4W/WNKnflsNxGtjOnQNv0Y2pnQKx7SaG/EcD+veJpKeEaoQBOOnQNjs3YoWxI1/f6SZtnGU8j  
h3rsAci3VLhc77kQHvNok6B5JT2saH+ISun8TUqVC6OjMtMPmcvncZb3IAABOp7xM2+LZ83ZA7ClTWIZlv23Gt3OY2Jt  
lvpaLOgDw+Is2lgBusLcbi/E8tZ6p0a2mHRTfxD5zp0DV0sRKjpdSx+ModWrhGDBwxGYXAlsRcEXvvE6dAotl9HqeDQ  
sVNSqB7ZsLE7gg90X85Z7D2aEGdtXY3J8Yk6BdVGAtluKJtp8506BjNvlztkU+32A2mj5WZCP60UTO583aC2LXcDgppq  
A51/pr0x+KLOgBwo6xBTJ0FSoi62s1VCafkXQjzkps9UU61NVZ3BpVUYLINSmAwJDGxLIN3MGdOgazoNtEWfDFSjKSw  
pNe6X9oITqUvrY6i54Wmqczp0ATiAnToH//2Q=="

},

"id": 3910,

"userType": "I",

"homeServer": "Void host",

"shortName": "pgarcia",

"primaryGroupDescription": "Music",

"primaryGroup": "Music"

}

]

}

## 2. Use the boolean operator +

## Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=fran~ +bacall
```

## Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 3,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Bacall",
      "createdByUser": "ActiveDirectory",
      "fullName": "Lauren Bacall",
      "active": true,
      "userName": "lbacall",
      "mailAlias": "",
      "firstName": "Lauren",
      "createdDate": "2023-08-08 14:26:14",
      "multiSession": true,
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2844",
        "links": {
          "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'lbacall'+and+enabled+eq+true",
          "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'lbacall'+and+disabled+eq+false",
          "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'lbacall'",
          "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'lbacall'",
          "effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2844/effectiveGrants"
        }
      },
      "resourceType": "User"
    }
  ]
}
```

```
    },
    "modifiedByUser": "pgarcia",
    "schemas": [
        "urn:soffid:com.soffid.iam.api.User"
    ],
    "modifiedDate": "2023-08-22 17:34:07",
    "attributes": {},
    "id": 2844,
    "userType": "I",
    "primaryGroupDescription": "Music",
    "primaryGroup": "Music"
},
{
    "lastName": "Sinatra",
    "createdByUser": "ActiveDirectory",
    "fullName": "Frank Sinatra",
    "active": true,
    "userName": "frank",
    "mailAlias": "",
    "firstName": "Frank",
    "createdDate": "2023-09-06 13:12:54",
    "multiSession": true,
    "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
        "links": {
            "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+eq+true",
            "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+false",
            "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'frank'",
            "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'frank'",
            "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
        },
        "resourceType": "User"
    }
}
```

```
    },
    "modifiedByUser": "ActiveDirectory",
    "schemas": [
      "urn:soffid:com.soffid.iam.api.User"
    ],
    "modifiedDate": "2023-09-06 13:12:55",
    "attributes": {},
    "id": 276435,
    "userType": "I",
    "primaryGroupDescription": "Music",
    "primaryGroup": "Music"
  },
  {
    "lastName": "Sherwood",
    "createdByUser": "pgarcia",
    "fullName": "Frank Sherwood",
    "active": true,
    "userName": "franks",
    "mailAlias": "",
    "firstName": "Frank",
    "createdDate": "2023-10-05 15:32:40",
    "multiSession": false,
    "meta": {
      "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644",
      "links": {
        "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'franks'+and+enabled+eq+true",
        "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'franks'+and+disabled+eq+false",
        "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'franks'",
        "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'franks'",
        "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644/effectiveGrants"
      },
      "resourceType": "User"
    }
  }
}
```

```
    },
    "modifiedByUser": "pgarcia",
    "schemas": [
      "urn:soffid:com.soffid.iam.api.User"
    ],
    "modifiedDate": "2023-10-05 15:32:40",
    "attributes": {},
    "id": 432644,
    "userType": "I",
    "primaryGroupDescription": "scientist",
    "primaryGroup": "scientist"
  }
]
}
```

### 3. Use the boolean operator -

#### Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=fran~ -Sherwood
```

#### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 1,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Sinatra",
      "createdByUser": "ActiveDirectory",
      "fullName": "Frank Sinatra",
      "active": true,
      "userName": "frank",
      "mailAlias": "",
      "firstName": "Frank",
      "createdDate": "2023-09-06 13:12:54",
      "multiSession": true,
      "meta": {
```

```

    "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
    "links": {
      "roleAccounts":
        "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+eq+true",
      "groupUsers":
        "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+false",
      "accounts":
        "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'frank'",
      "issues":
        "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'frank'",
      "effectiveGrants":
        "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
    },
    "resourceType": "User"
  },
  "modifiedByUser": "ActiveDirectory",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
  ],
  "modifiedDate": "2023-09-06 13:12:55",
  "attributes": {},
  "id": 276435,
  "userType": "I",
  "primaryGroupDescription": "Music",
  "primaryGroup": "Music"
}
]
}

```

## Example 5

### 1. U

#### Request

```

GET
http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=(firstName:aretha OR firstName:Rosalind)
AND lastName:Franklin AND birthDate:1979-01-01

```

## Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 2,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Franklin",
      "createdByUser": "ActiveDirectory",
      "fullName": "Aretha Franklin",
      "active": true,
      "userName": "aretha",
      "mailAlias": "",
      "firstName": "Aretha",
      "createdDate": "2023-09-06 13:12:54",
      "multiSession": true,
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397",
        "links": {
          "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'aretha'+and+enabled+eq+true",
          "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'aretha'+and+disabled+eq+false",
          "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'aretha'",
          "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'aretha'",
          "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397/effectiveGrants"
        }
      },
      "resourceType": "User"
    },
    {
      "modifiedByUser": "pgarcia",
      "schemas": [
        "urn:soffid:com:soffid:iam:api:User"
```

```
    ],
    "modifiedDate": "2023-10-05 16:02:40",
    "attributes": {
      "birthDate": "1979-01-01 00:00:00"
    },
    "id": 276397,
    "userType": "I",
    "primaryGroupDescription": "World",
    "primaryGroup": "world"
  },
  {
    "lastName": "Franklin",
    "createdByUser": "ActiveDirectory",
    "fullName": "Rosalind Franklin",
    "active": true,
    "userName": "rfranklin",
    "mailAlias": "",
    "firstName": "Rosalind",
    "createdDate": "2023-08-08 14:26:14",
    "multiSession": true,
    "meta": {
      "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862",
      "links": {
        "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'rfranklin'+and+enabled+eq+true",
        "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'rfranklin'+and+disabled+eq+false",
        "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'rfranklin'",
        "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'rfranklin'",
        "effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862/effectiveGrants"
      },
      "resourceType": "User"
    },
    "modifiedByUser": "pgarcia",
    "schemas": [
      "urn:soffid:com.soffid.iam.api.User"
```

```
],  
  "modifiedDate": "2023-10-05 16:03:02",  
  "attributes": {  
    "birthDate": "1979-01-01 00:00:00"  
  },  
  "id": 2862,  
  "userType": "I",  
  "primaryGroupDescription": "scientist",  
  "primaryGroup": "scientist"  
}  
]  
}
```

---

Revision #2

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