

Braincorp Exercise Documentation

Built With:

I) Visual studio – c# web api

Version:

Ver 1.0 (prototype)

Getting started :

Open the solution file with visual studio 2017 (pref.) and run with IIS express for any browser .
Default path for user file : c:\etc\passwd.txt

Default path for group files: c:\etc\groups.txt

All inputs are provided through the URI.

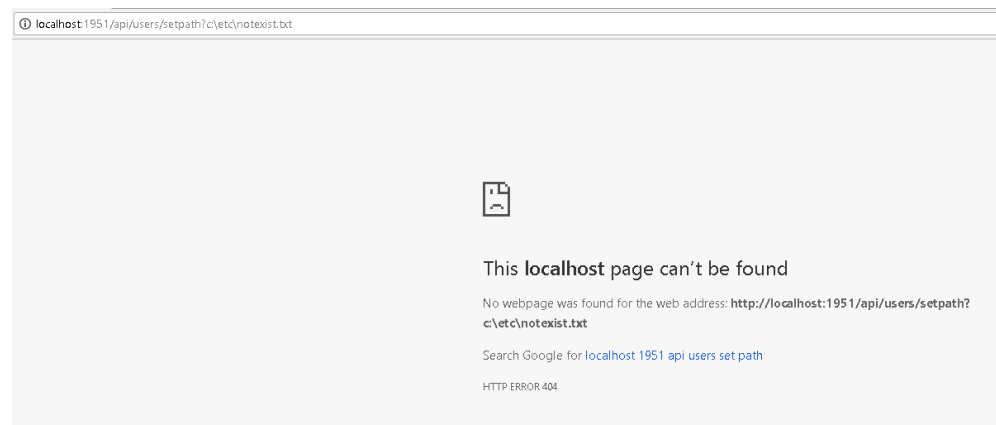
Changing Paths :

Paths to each file can be changed by using the URI and specifying /setpath? For either user or groups

Example:

localhost:1951/api/users/setpath?c:\etc\passwd.txt

if the file does not exist ,throw a 404 error



For groups , we use the same syntax but use the /groups route.

localhost:1951/api/groups/setpath?C:/etc/groups.txt

Throw exception is no path exists.

localhost:1951/api/groups/setpath?C:/etc/notexusts.txt



This localhost page can't be found

No webpage was found for the web address:

<http://localhost:1951/api/groups/setpath?C:/etc/notexusts.txt>

Search Google for [localhost 1951 api groups set path](#)

HTTP ERROR 404

Using the service:

1) Get Users : Returns all users



The screenshot shows a web browser window with the address bar displaying `localhost:1951/api/users`. Below the address bar, a message states: "This XML file does not appear to have any style information". The main content area displays an XML response from a service. The XML is an `<ArrayOfuser>` element with a namespace of `xmlns:i="http://www.w3.org/2001/XMLSchema-instance"`. It contains three `<user>` elements. Each `<user>` element has the following structure: `<comment>VivekGite</comment>`, `<gid>1000</gid>`, `<home>/home/vivek</home>`, `<id>1000</id>`, `<name>tom</name>`, and `<shell>/bin/bash</shell>`. The first two users have the same details, while the third user has a different name (`tom2`) and ID (`1002`).

```
<?xml version='1.0' encoding='utf-8'>
<ArrayOfuser xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <user>
    <comment>VivekGite</comment>
    <gid>1000</gid>
    <home>/home/vivek</home>
    <id>1000</id>
    <name>tom</name>
    <shell>/bin/bash</shell>
  </user>
  <user>
    <comment>VivekGite</comment>
    <gid>1000</gid>
    <home>/home/vivek</home>
    <id>1001</id>
    <name>tom1</name>
    <shell>/bin/bash</shell>
  </user>
  <user>
    <comment>VivekGite</comment>
    <gid>1000</gid>
    <home>/home/vivek</home>
    <id>1002</id>
    <name>tom2</name>
    <shell>/bin/bash</shell>
  </user>
</ArrayOfuser>
```

2) Get users by query : Returns users by query , one for more can be provided .

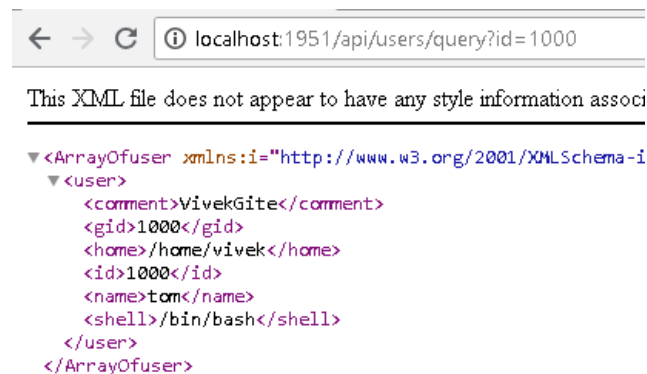
User with id and name queries



The screenshot shows a web browser with the address bar containing `localhost:1951/api/users/query?id=1001&name=tom1`. Below the address bar, a message states: "This XML file does not appear to have any style information associated with it". The XML response is displayed as follows:

```
<ArrayOfuser xmlns:i="http://www.w3.org/2001/XMLSchema-instance" .  
  <user>  
    <comment>VivekGite</comment>  
    <gid>1000</gid>  
    <home>/home/vivek</home>  
    <id>1001</id>  
    <name>tom1</name>  
    <shell>/bin/bash</shell>  
  </user>  
</ArrayOfuser>
```

User with only Id queried :



The screenshot shows a web browser with the address bar containing `localhost:1951/api/users/query?id=1000`. Below the address bar, a message states: "This XML file does not appear to have any style information associ". The XML response is displayed as follows:

```
<ArrayOfuser xmlns:i="http://www.w3.org/2001/XMLSchema-i  
  <user>  
    <comment>VivekGite</comment>  
    <gid>1000</gid>  
    <home>/home/vivek</home>  
    <id>1000</id>  
    <name>tom</name>  
    <shell>/bin/bash</shell>  
  </user>  
</ArrayOfuser>
```

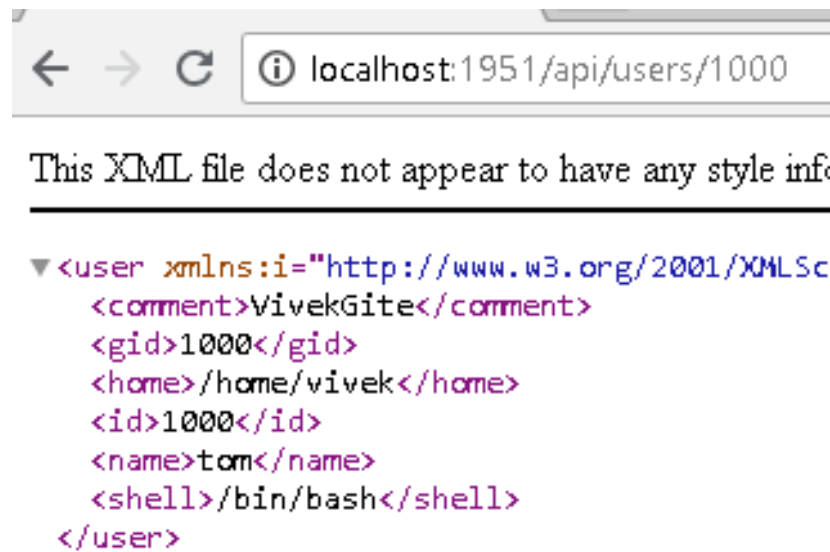
User with id gid and name queried



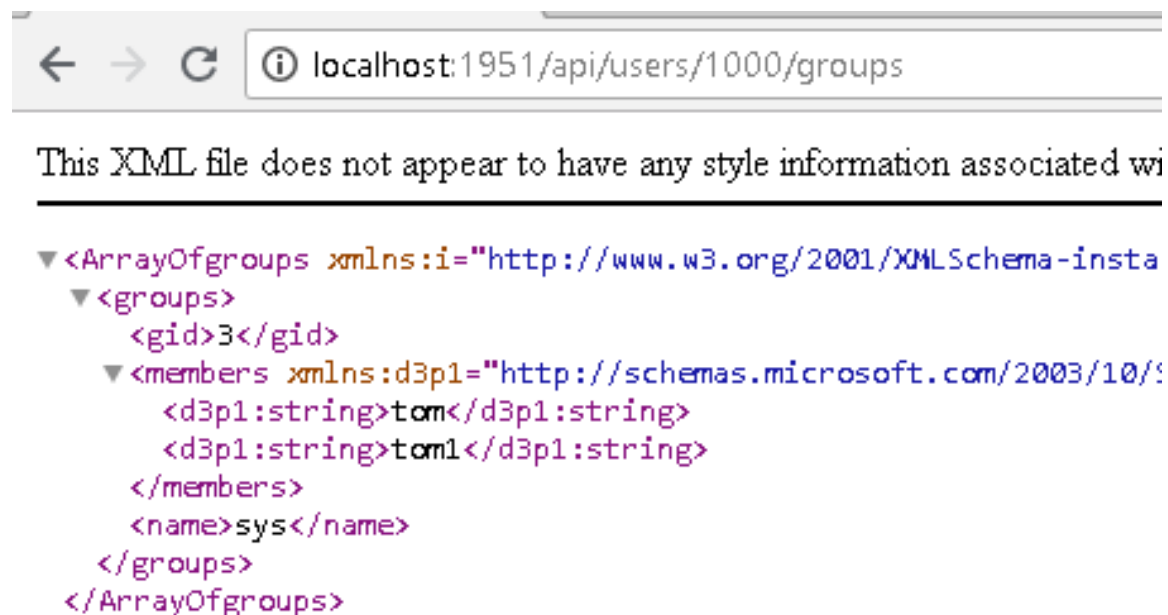
The screenshot shows a web browser with the address bar containing `localhost:1951/api/users/query?id=1001&gid=1000&name=tom1`. Below the address bar, a message states: "This XML file does not appear to have any style information associated with it. The docu". The XML response is displayed as follows:

```
<ArrayOfuser xmlns:i="http://www.w3.org/2001/XMLSchema-instance" xmlns="hti  
  <user>  
    <comment>VivekGite</comment>  
    <gid>1000</gid>  
    <home>/home/vivek</home>  
    <id>1001</id>  
    <name>tom1</name>  
    <shell>/bin/bash</shell>  
  </user>  
</ArrayOfuser>
```




3) Get single user by id :



4) get all groups for a single user



5) Display all groups

   localhost:1951/api/groups

This XML file does not appear to have any style information associated with it. The document tree is shown below:

```
<ArrayOfgroups xmlns:i="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://schemas.datacontract.org/2004/07/System.Collections.Generic" >
  <groups>
    <gid>0</gid>
    <members xmlns:d3p1="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
      <name>root</name>
    </members>
  </groups>
  <groups>
    <gid>1</gid>
    <members xmlns:d3p1="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
      <name>daemon</name>
    </members>
  </groups>
  <groups>
    <gid>2</gid>
    <members xmlns:d3p1="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
      <name>bin</name>
    </members>
  </groups>
  <groups>
    <gid>3</gid>
    <members xmlns:d3p1="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
      <d3p1:string>tom</d3p1:string>
      <d3p1:string>tom1</d3p1:string>
    </members>
    <name>sys</name>
  </groups>
  <groups>
    <gid>4</gid>
    <members xmlns:d3p1="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
      <d3p1:string>username</d3p1:string>
    </members>
    <name>adm</name>
  </groups>
  <groups>
    <gid>5</gid>
    <members xmlns:d3p1="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
      <name>tty</name>
    </members>
  </groups>
</ArrayOfgroups>
```

6) Display groups by query

Group queried for one member

← → ↻ ⓘ localhost:1951/api/groups/query?members=username

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<ArrayOfgroups xmlns:i="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <groups>
    <gid>4</gid>
    <members xmlns:d3p1="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
      <d3p1:string>username</d3p1:string>
    </members>
    <name>adm</name>
  </groups>
  <groups>
    <gid>20</gid>
    <members xmlns:d3p1="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
      <d3p1:string>username</d3p1:string>
    </members>
    <name>dialout</name>
  </groups>
  <groups>
    <gid>24</gid>
    <members xmlns:d3p1="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
      <d3p1:string>username</d3p1:string>
      <d3p1:string>username1</d3p1:string>
    </members>
    <name>cdrom</name>
  </groups>
</ArrayOfgroups>
```





Group queried for gid

← → ↻ ⓘ localhost:1951/api/groups/query?gid=1

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<ArrayOfgroups xmlns:i="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <groups>
    <gid>1</gid>
    <members xmlns:d3p1="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
      <d3p1:string>daemon</d3p1:string>
    </members>
    <name>daemon</name>
  </groups>
</ArrayOfgroups>
```

7) group/<gid> : returns group with specific id

    localhost:1951/api/groups/5

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<?xml version="1.0" encoding="UTF-8" ?>
<groups xmlns:i="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://schemas.datacontract.org/2004/07/System.Data.DataContractExtensions" >
  <gid>5</gid>
  <members xmlns:d2p1="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  <name>tty</name>
</groups>
```