# XER CPACS Sync Tool User Portal

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Description of a XER Sync Tool User Portal for **Centricity PACS**

Introduction

If a Radiologist is responsible to report studies on several CPACS he needs to have a UV/CPACS account on each Trust. To be able to connect to a remote site with the local UV viewer application, the user must exist on both sites/Trusts and the username and password must be the same. This tool offers the possibility to keep CPACS user password in sync, so a user can work on several sites with no need to sync the password.
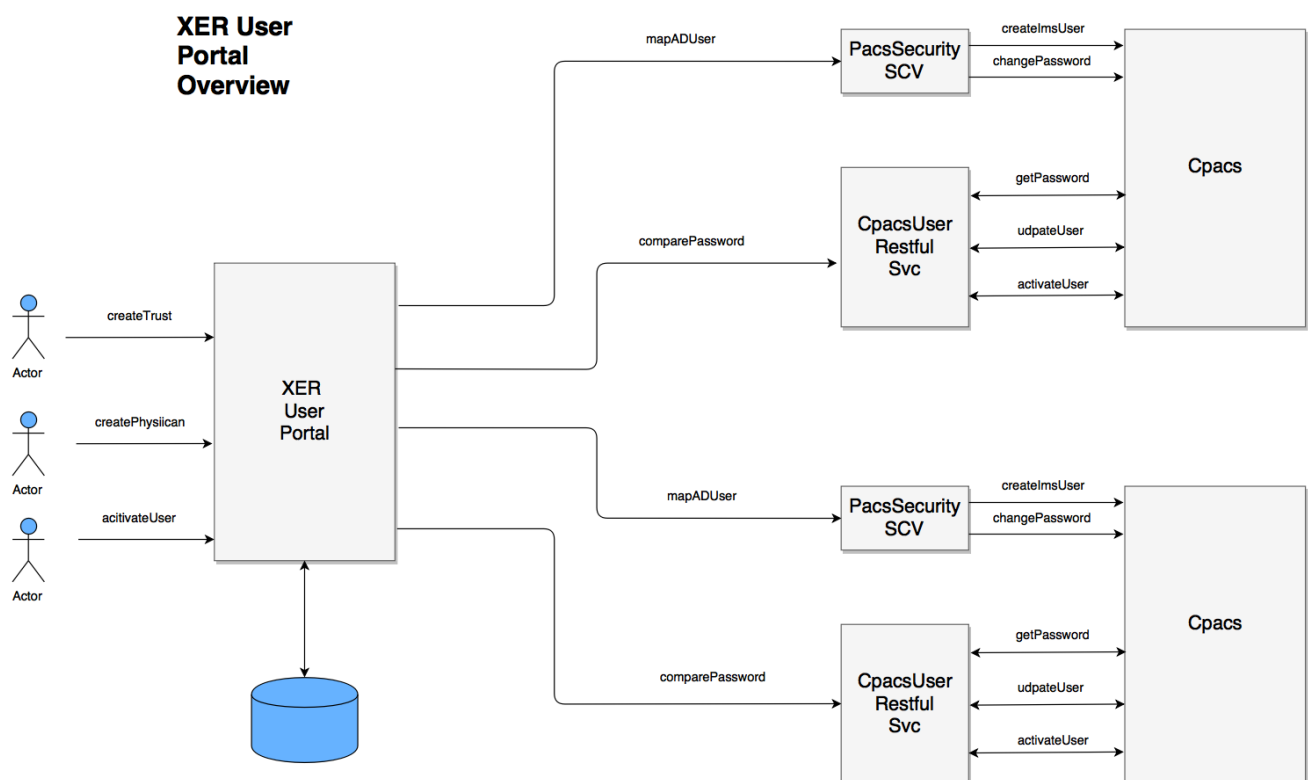
Configure a Trust on the Portal
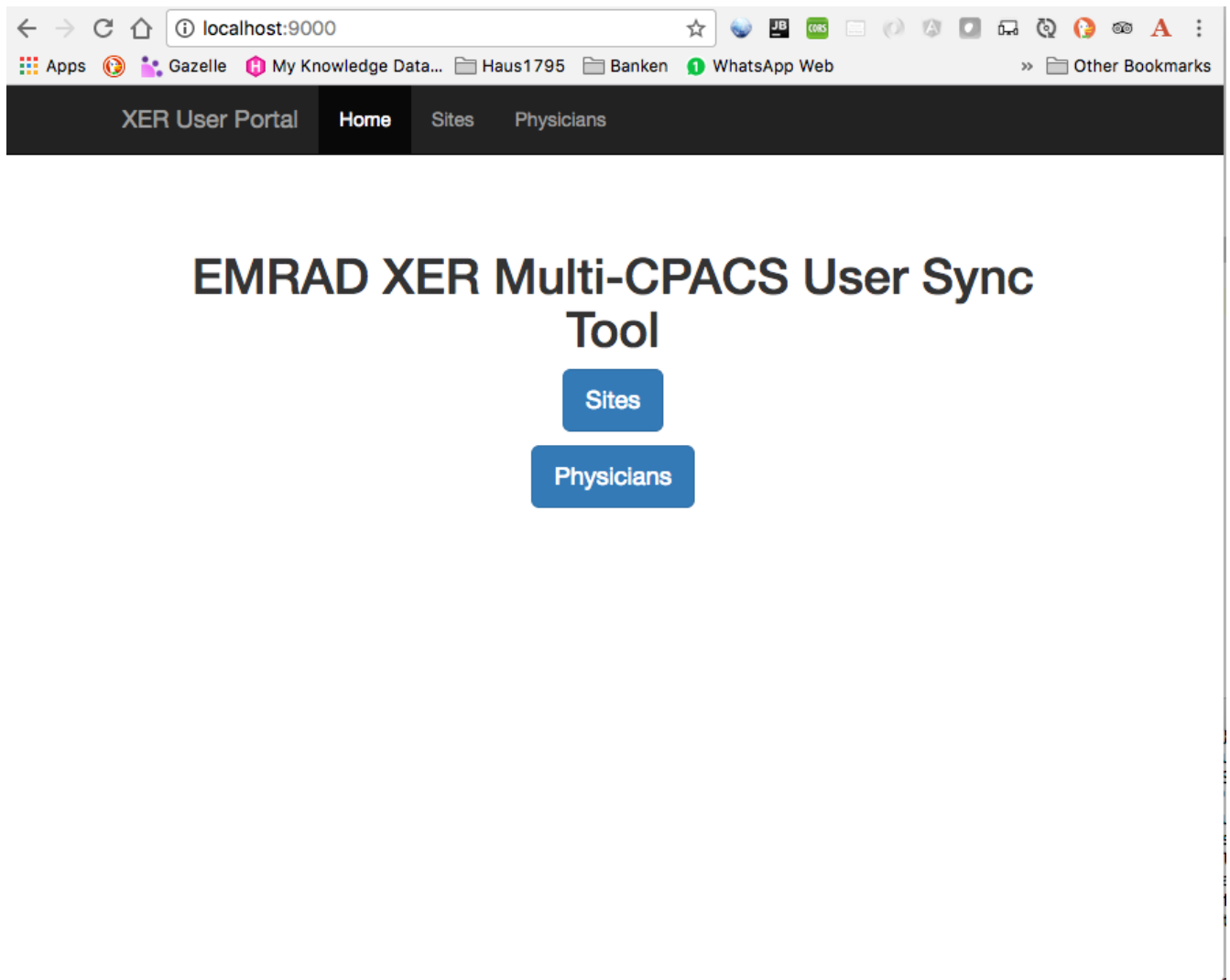
NOTE Select the Sites button from the home page

ID	Name	City	Action
1	NHU	Nottingham	👁 ✏ ✕
2	CRH	Chesterfield	👁 ✏ ✕

localhost:9000/sites/add

NOTE Select a site to edit or press the add button to create a new site

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NOTE	Enter site specific data

Site specific data

- **ID** *that value is created by the database*
- **Name** *short string which indentify a site needs to be unique on the installation*
- **City** *enter a human readable information to identify the site*
- **XER User Group** *enter a existing group which must be member SERVICE ROLES, For EMRAD, the group Remote_Radiologists MUST be used for ALL Trusts.*
- **Web Service Port** *port of the restful web service which decrypt the password for comparison*
- **IMS IP Address** *IP address of the IMS Databse used to connect to the SOAP Service PacsSecuritySvc*
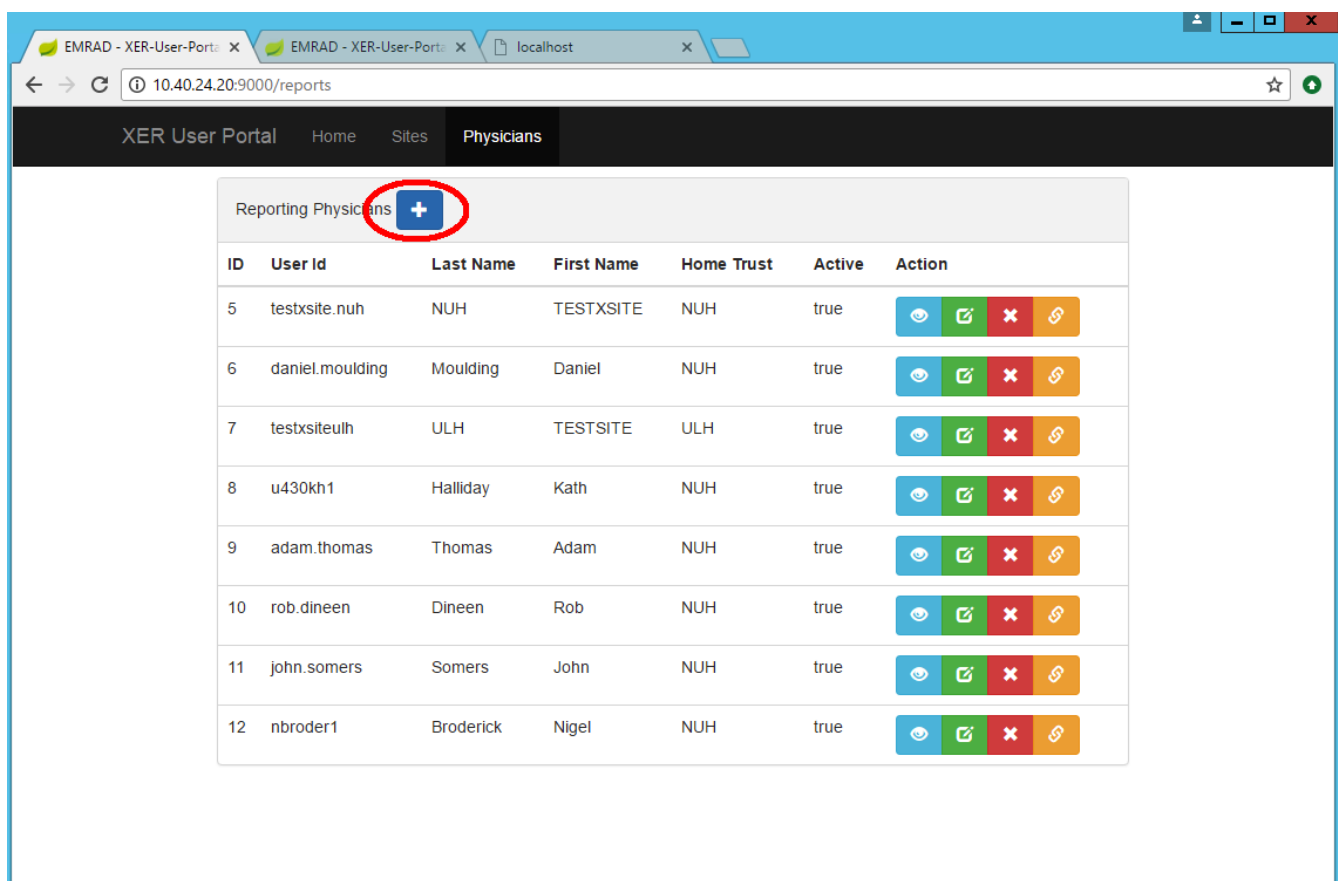
IMPORTANT	You find the valid XER user group either in the CAT tool or with the sql statement: `select resource_value from configuration where resource_index = 7105`

Enter a new Physician
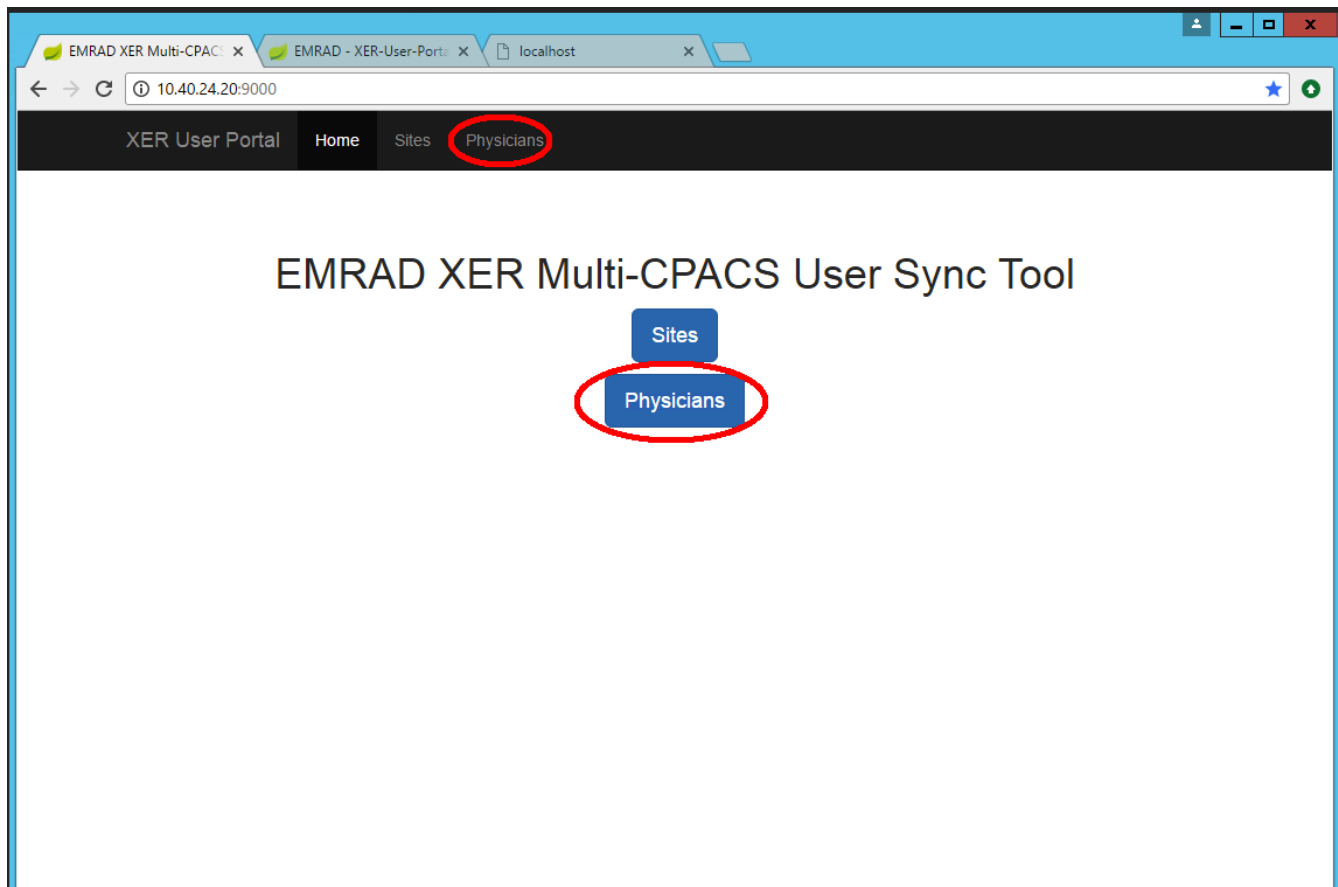
To add a new physician enter the data in to the XER User Portal

Select the add button

Enter the physician information, make sure the user exist on the select home trust

save the data

At that point the existence of the user at the selected Home trust is checked, if the user does not exist it won't be created on the XER Portal Otherwise the user is now part of the portal but since the physician is not mapped to any other site no synchronisation is going on

Map the user to a Remote Trust, select the map button
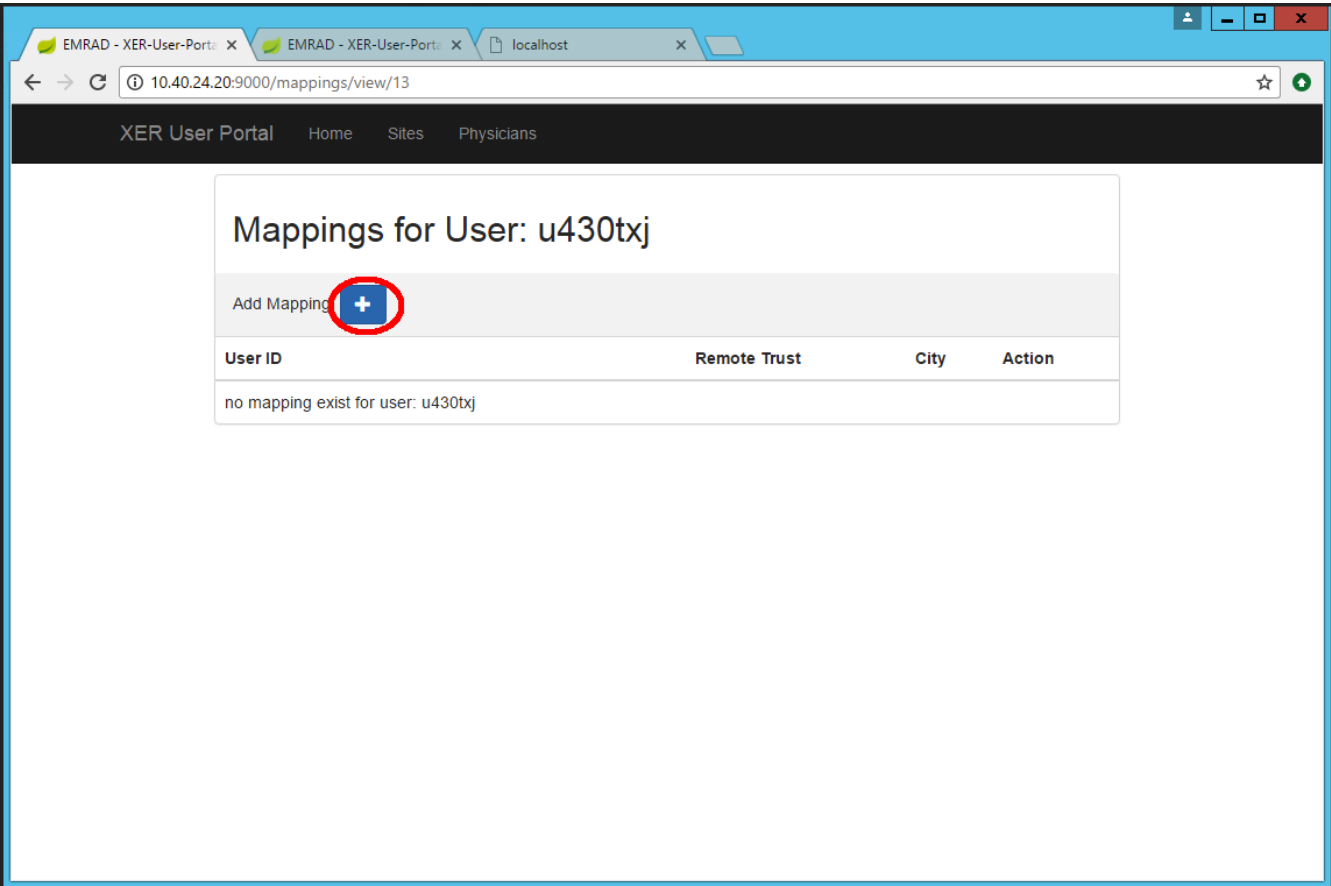
select the add button and select the Remote trust from the dropdown list

The user is now created on the Remote trust. The user won't be created if it exists already and the

portal will show an error message. The user password is not synchronised yet, this will happen during the next job.

Installation CpacsUserService

IMPORTANT   One Restful Webservice need to be installed for each site which is connected to the XER User Portal
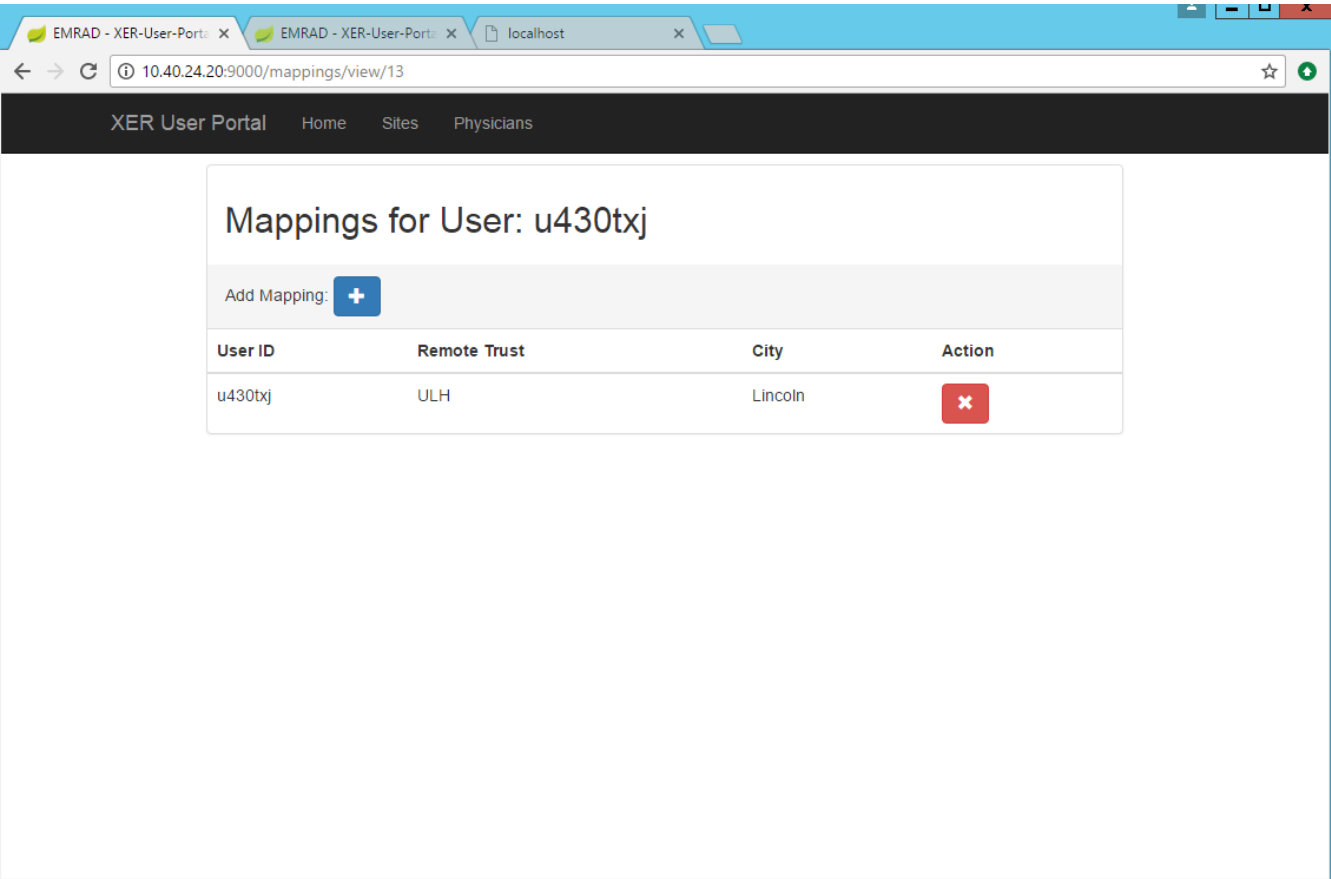
The Restful Webservice is developed because the CPACS Soap Security Service has no method which allows to check the password or to activate/deactivate a user

- create for each site which is supposed to collaborate with the XER user portal a sub dir and name the directory after the site

- put the cpacsservice.jar in that directory and rename it to cpacsusers<site>.jar

- create a application.properties file

setup a service application.properties

```
server.port: 9100  ①
management.port: 9101  ②
#management.address: 127.0.0.1


spring.datasource.driverClassName=net.sourceforge.jtds.jdbc.Driver
spring.datasource.url = jdbc:jtds:sybase://10.40.24.102:20000/ims   ③
spring.datasource.username = sa
spring.datasource.password = db-password  ④
spring.jpa.properties.hibernate.dialect = org.hibernate.dialect.SybaseDialect


config.property.decrypt.key=s3cr3t

# choose your logging level TRACE, DEBUG, INFO, WARN, ERROR, FATAL, OFF
#logging.level.com.ge.hc.dicom = TRACE
logging.level.com.ge.hc.cpacs = DEBUG   ⑤
#logging.level.com.ge.hc.dicom = INFO
#logging.level.com.ge.hc.dicom = WARN
#logging.level.com.ge.hc.dicom = ERROR
#logging.level.com.ge.hc.dicom = FATAL
#logging.level.com.ge.hc.dicom = OFF


logging.file=log/site.log  ⑥
```

application.properties

configure cpacsuserservice to run as a service

create a file /etc/systemd/system/cpacsusersnhu.service

```
# Automatically generated by systemd-sysv-generator

[Unit]
Documentation=man:systemd-sysv-generator(8)
SourcePath=/etc/init.d/cpacsusersnhu
Description=LSB: cpacsusers nhu
After=remote-fs.target
After=systemd-journald-dev-log.socket
After=network-online.target
Wants=network-online.target

[Service]
Type=forking
Restart=no
TimeoutSec=5min
IgnoreSIGPIPE=no
KillMode=process
GuessMainPID=no
RemainAfterExit=yes
ExecStart=/etc/init.d/cpacsusersnhu start
ExecStop=/etc/init.d/cpacsusersnhu stop
```

create a symbolic link in etc.init.d

```
sudo ln -s /home/geadmin/cpacs/ulh/cpacsusers<site>.jar /etc/init.d/cpacsusers<site>
```

control the service

```
$ sudo /etc/init.d/cpacsusers<stite>
Usage: /etc/init.d/cpacsusers<site> {start|stop|force-stop|restart|force-
reload|status|run}
```

Test the service

```
curl http://localhost:9100/hello-cpacs?name=WEB
{"id":4,"userName":"WEB","password":"]I)
8T","active":1,"firstName":"WEB","middleName":null,"lastName":"ADMINISTRATOR","decrypt
Password":"QWKLZX"}
```

Setup the XER Portal service

setup a service application.properties

```
server.port=9000
#server.contextPath=/xer

spring.datasource.url = jdbc:mysql://localhost:3306/xer
spring.datasource.username = root
spring.datasource.password = engineer

#spring.jpa.hibernate.ddl-auto=create-drop
spring.jpa.hibernate.ddl-auto=update
//spring.jpa.show-sql = true
xer.password.sync.pollTime=30000    ①
logging.level.org.springframework = INFO
logging.level.com.ge.hc.emrad = TRACE
logging.level.org.springframework.ws = TRACE
logging.level.org.springframework.oxm.jaxb = TRACE
# choose your logging level TRACE, DEBUG, INFO, WARN, ERROR, FATAL, OFF
logging.level.com.ge.hc.emrad = DEBUG

logging.file=log/xer.log
```

① the time between two synchronisation process in msec, currently 1 min in production
   environment.

configure cpacsuserservice to run as a service

create a file /etc/systemd/system/xer.service

```
# Automatically generated by systemd-sysv-generator

[Unit]
Documentation=man:systemd-sysv-generator(8)
SourcePath=/etc/init.d/xer
Description=LSB: XER Portal
After=remote-fs.target
After=systemd-journald-dev-log.socket
After=network-online.target
Wants=network-online.target

[Service]
Type=forking
Restart=no
TimeoutSec=5min
IgnoreSIGPIPE=no
KillMode=process
GuessMainPID=no
RemainAfterExit=yes
ExecStart=/etc/init.d/xer start
ExecStop=/etc/init.d/xer stop
```

create a symbolic link in etc.init.d

```
sudo ln -s /home/geadmin/cpacs/xer/xer-0.0.4.jar /etc/init.d/xer
```

```
$ sudo /etc/init.d/xer
Usage: /etc/init.d/xer {start|stop|force-stop|restart|force-reload|status|run}
```