UCONN Health Server

The ‘Health Server’ at the University of Connecticut is a middle layer between mobile devices and Microsoft HealthVault (MSHV) & OpenEmr. The main functionality of the server is to:

- Provide mobile user authentication to MSHV.
- Add/Get/Delete Health Record Items (HRI) from MSHV.
- Get HRIs from OpenEmr

End Points

HRIs supported are listed at the server’s help page:

http://cicats9.engr.uconn.edu:14080/Help

There are two main routes:

HealthVault:

http://cicats9.engr.uconn.edu:14080/api/Health

OpenEmr:

http://cicats9.engr.uconn.edu:14080/api/OpenEmr

HealthVault Authentication

To make requests to the MSHV server you will need a PublicId and a RecordId. These twoIds are for authentication purposes only. You can get personal Ids by visiting the following link and signing in to MSHV:


HealthVault JSON REST API Calls

Example GET Request:

http://cicats9.engr.uconn.edu:14080/api/Health/GetExercises?PublicId={PublicId}&RecordId={RecordId}

Example POST Request

http://cicats9.engr.uconn.edu:14080/api/Health/AddExercise?PublicId={PublicId}&RecordId={RecordId}

The body of a POST request must include the corresponding JSON object you are adding (use content type ‘application/json’):

```
{
    Title: "Rope jumping"
    Distance: "3218.688"
    Duration: "20"
    When: "2013-10-07T00:00:00"
}
```

Example DELETE Request

http://cicats9.engr.uconn.edu:14080/api/Health/Delete?PublicId={PublicId}&RecordId={RecordId}&Key={Key}
Where Key is the object’s key to be deleted.

**HealthVault RAW REST Api Calls**

All data types can also be returned as RAW XML from Healthvault.

*Example GET Request:*

http://cicats9.engr.uconn.edu:14080/api/Health/Get?PublicId={PublicId}&RecordId={RecordId}&Typeld={Typeld}


*Example POST Request*

http://cicats9.engr.uconn.edu:14080/api/Health/Add?PublicId={PublicId}&RecordId={RecordId}&Typeld={Typeld}

The body of a POST request must include the corresponding XML object you are adding (use content type ‘application/xml’) NOTE: body match xml format refer to what is returned from get:

```xml
<thing><thing-id version-stamp="4847da7f-e1e8-4759-acc4-793925155bec">03960229-fcce-4388-b2d8-06384de47dac</thing-id><type-id name="Exercise">85a21ddb-db20-4e65-8d30-33e899ecf612</type-id><thing-state>Active</thing-state><flags>0</flags><eff-date>2013-10-07T00:00:00</eff-date><data-xml><exercise><when><structured><date>y>2013</y><m>10</m><d>7</d></date></structured></when><activity><text>Rope jumping</text><code><value>RopeJum</value><family>pc</family><type>exercise-activities</type><version>1</version></code></activity><distance><m>3218.688</m><display units="mi" units-code="mi">2</display></distance><duration>20</duration><detail><name><value>Steps_count</value><family>pc</family><type>exercise-detail-mes</type><version>1</version></name><value><value>300</value><units><text>Count</text></units></value></detail></exercise></data-xml></thing>
```

*Example DELETE request*

***Same as JSON REST API Delete call above***

**OpenEmr JSON REST API Calls**

Currently the Health Server supports getting prescription information from a locally running version of OpenEmr. The OpenEmr app runs locally on the server and has some preloaded prescription information for a patient with id 1.

http://cicats9.engr.uconn.edu:14080/api/OpenEmr/GetPrescriptions?PatientId=1

This is the equivalent of the following MySql query on a locally running version of OpenEmr:

```
SELECT * FROM openemr.prescriptions WHERE patient_id = 1;
```

**Screenshot of Data in OpenEmr:**

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HealthVault Server Models:


HealthVault Controller & Dal:


OpenEmr Server Models:


OpenEmr Controller & Dal: