



# **ITEC 831, WEB APPLICATIONS**

## **REPORT**

**Student Name:**

**CHANIKYA MANDAPATHI**

**Student Number:**

**42944511**

## STRUCTURE OF THE SOLUTION FOLDERS:

Solution consists of three folders covering pass ,credit and distinction specifications.As my offline application consists of some bugs ,i am submitting the separate solutions for both pass and credit sections.

Pass folder : This covers the pass specification i.e consists of web service that returns the json data for the given url.

Credit folder: This covers the credit specification i.e Making the application offline.

Distinction folder: This adds the openid based authentication to the application

## INSTALLATION GUIDE:

Following external libraries should be installed for the execution of the solution :(Assumes common libraries/modules like cgi , json , collections etc , sqlite ,python 2.7+ installed on the markers system)

### SQLALCHEMY :

On Mac OS X:

using easy\_install : `$easy_install sqlalchemy`

### FLASK-OPENID :

On Mac OS X :

using easy\_install : `$easy_install Flask-OpenID`

using pip : `$pip install Flask-OpenID`

How to run DISTINCTION APP :

Follow the following instructions to run the Distinction app-

```
$ python
```

```
>>>import server.py
```

```
>>>server.init_db()
```

Now the run server.py.

Go to browser and enter the following url :

<http://127.0.0.1:5000>

It will redirect to login page if you are not logged in and asks to enter your openid.

Note: This application works good with yahoo open id (tested) and google openid.

Offline Application :

Developed offline application allows to do the following even if the application is offline :

See the names of all series

Enter a new value for any series and have these values sent to server when we go back to online and refreshes the browser

But it has the following errors which i failed to rectify because of insufficient time:

--> Application always provides offline saved resource

--> Enter a value for any series .These values are saved to database but page won't refresh and chart won't updated.For the updated chart ,user needs to clear cookies and refresh the browser

Pass specification :

Following the discussion forum ,for the url

series/<name>/<integer> , n'th value of the series is returned sorted by date.

## REFERENCES :

Flask-OpenID

<http://pythonhosted.org/Flask-OpenID/>

flask-openid example provided by github.com

<https://github.com/mitsuhiko/flask-openid/blob/master/example/example.py>

Jinja Templates

<http://jinja.pocoo.org/docs/templates/>

Using the application cache , mozilla

<https://developer.mozilla.org/en/docs/HTML/>

[Using the application cache](#)

<http://w3schools.com>

lecture notes and practical solutions of Matt Roberts