1. initdb.py (need models.py)

If not found in SQL, create tables current\_date and jail\_bookings

1. FLASK APP (python + html + java script):
2. Retrieve table current\_date,
3. if no record, write today’s date out and then evoke a python program (imported previously in APP) to use API to get the jail\_bookings, get it as a dataframe, clean the dataframe, and write out as SQL table jail\_bookings AND as an csv file.
4. If there is a record and if it is NOT today’s date, delete the record and do point (i)
5. If the record is today’s date, that means API was retrieved today, do point (iv)
6. Render\_template Index.html
7. Machine learning (similar to the diabetes activities did in class)

(points 1 and 2 are in Heroku server)

1. The CSV file can be imported to Tableau to do its magic

Java script – maybe it can display the data in table format + charts that tableau not producing such as



<https://www.niche.com/k12/search/best-public-elementary-schools/c/miami-dade-county-fl/>

<https://www.niche.com/k12/search/best-public-high-schools/c/miami-dade-county-fl/>

<https://www.niche.com/k12/search/best-public-middle-schools/m/miami-metro-area/>

all public schools :

<http://www.dadeschools.net/schools/schoolinformation/default_printable.asp?type=1&searchterm=>

<http://www.dadeschools.net/schools/schoolinformation/default.asp?type=2#list>

K8 centers :

<http://www.dadeschools.net/schools/schoolinformation/default.asp?type=6#list>

high schools :

<http://www.dadeschools.net/schools/schoolinformation/default.asp?type=3#list>

<http://www.mapquestapi.com/geocoding/v1/address?key=IYNehGBC4T9Qt5APqoIcLN7LfJWr7arr&location=5536%20NW%2021ST%20AVENUE%20MIAMI,%20FL%2033142>

<https://onlinehelp.tableau.com/current/pro/desktop/en-us/maps_mapsources_wms.htm>

<https://kb.tableau.com/articles/howto/creating-a-custom-map-connection>

<https://community.tableau.com/thread/218026>

**mapbox://styles/moemily/cjx0vyngv7nw51clswwdangoz**

https://api.mapbox.com/styles/v1/moemily/ **cjx0vyngv7nw51clswwdangoz** access\_token= pk.eyJ1IjoibW9lbWlseSIsImEiOiJjanZlZDhhdDMyOWp5M3luM20zaTJvaGd0In0.mgk2\_lycp\_RIB3BfqDi4Jg

**mapbox://styles/moemily/cjx133yf559vb1clice1betf1**

**secret mapbox token**

**sk.eyJ1IjoibW9lbWlseSIsImEiOiJjangweTluc3QwNDN1NGFycjAzamVhbGh5In0.CWC-2mC4zGsdGa8wclIadA** **mapbox://styles/moemily/cjx133yf559vb1clice1betf1**

https://api.mapbox.com/styles/v1/moemily/dade\_police\_stations? access\_token= **sk.eyJ1IjoibW9lbWlseSIsImEiOiJjangweTluc3QwNDN1NGFycjAzamVhbGh5In0.CWC-2mC4zGsdGa8wclIadA** **mapbox://styles/moemily/cjx133yf559vb1clice1betf1**

**EC2 with flask app.py :**

<https://www.codementor.io/dushyantbgs/deploying-a-flask-application-to-aws-gnva38cf0>

<https://www.datasciencebytes.com/bytes/2015/02/24/running-a-flask-app-on-aws-ec2/>

**the best :**

<https://towardsdatascience.com/deploying-a-python-web-app-on-aws-57ed772b2319>