**Currant.ai**

We are group of urban planners, transportation researcher and spatial data scientist working on using smartphone as dashcam.

We tried to use on our devices

We are developing the APP

We realize the Mapbox SDK is very robust and efficient. We want to use this.

Good documentation about using the SDK, Android and iOS version

How much you going to charge us

We focus on Chinese market now and focus on Hongkong

AutoNav

**Lab 6. Access the database table using Python**

6.1 Query from the database

You can use Python to access the database and manipulate the table,

You need to install psycopg2 module first by using,

pip install psycopg2

Then you can open your Jupyter Notebook and access the database table,

import psycopg2

conn = psycopg2.connect(host="localhost",database="phila", user="postgres", password="5424796")

cur = conn.cursor()

cur.execute("SELECT version();")

create\_table\_query = '''SELECT tractce, countyfp,statefp,num FROM censuspntnum;'''

cur.execute(create\_table\_query)

rows = cur.fetchall()

for row in rows:

print(" -------- ", row)

conn.commit()

6.2 Do more complicated queries through Python

Let’s replicate our previous queries through Python

Count the number of points in the census tract using PostGIS

SELECT grid.gid, count(kioskdhd3.geom) AS totale

FROM grid

LEFT JOIN kioskdhd3 ON st\_contains(grid.geom,kioskdhd3.geom)

GROUP BY grid.gid;

5.1 Prepare the database

Prepare the shapefiles of the point of GSV points and the census tract polygons shapefile for Philadelphia. Make sure the shapefiles are in the same projection. Let’s use the local projection for Pennsylvania South feet first (EPSG: 3652). You can use QGIS or ArcGIS to do the projection transform easily.

