Prerequisites:
- VIrtual Environment
- Firefox addon (https://addons.mozilla.org/en-US/firefox/addon/restclient/) to hit taxi fare API's.
- Git configured

Setup Project:
1. Clone project https://github.com/gathole/taxifare or download
   `git clone git@github.com:gathole/taxifare.git`
2. cd `taxifare/taxifare`
3. Copy `local_settings.py.sample` file to `local_settings.py` in the same directory and add database details
4. workon <virtual-env>
5. cd ..
6. pip install -r requirements.txt
7. python manage.py syncdb
8. python manage.py migrate
9. python manage.py runserver

Adding Test Data:
1. Project is Set up, now you can start server and login to admin and add required data.
2. Or given db dump can be restore to avoid affert of adding test data. db dump has admin credentials:
   Username: admin
   Password: admin
   It also supports login with email id admin@admin.com

This project supports only Basic Authentication so you can login using username/email

Assuming server is running and now will test taxi fare API's
1. Open FireFox
2. Open RESTClient add-on (Tools->RESTClient)
3. Add Following parameters
   Method: GET
   URL:
   `http://localhost:8000/api/v1/fare/?city=Delhi&date=2014-01-31&time=22:60&from_location=malviya_nager&to_location=saket&trip_type=PointToPoint&car_type=Sedan`

   Click on SEND button

API Parameter Descriptions:

`http://localhost:8000/api/v1/fare/?city=CITY&date=DATE&trip_type=TRIP _TYPE&car_type=CAR_TYPE&time=TIME&outside=True/False&from_location=FR OM_LOCATION&to_location=TO_LOCATION`

Parameter Name	Description	Parameter Type
city	This is the City where taxi will get hired **Values:** Mumbai Delhi Bangalore	MANDATORY
date	Taxi hired date **Value:** yyyy-mm-dd	OPTIONAL
trip_type	Choose Trip Type **Values:** Outstation AirportTransfer PointToPoint	MANDATORY
car_type	Choose Car **Values:** SUV Sedan Hatchback	OPTIONAL
time	Travel Time **Value:** HH:MM **Note:** Night timing between 8pm to 4am. If you want to change settings.py parameters START_NIGHT & END_NIGHT	OPTIONAL
outside	It says trip inside or outside city. **Value:** True/False	OPTIONAL
from_location	Location where trip begins	OPTIONAL [It doesn't affect trip basic fare]
to_location	Location where trip ends	OPTIONAL [It doesn't affect trip basic fare]

To Get all Cities: `http://localhost:8000/api/v1/city/`

Assumptions:

1. Cache timeout: 5min
2. All responses are JSON
3. All the extra fare charges like night charge, outside charge or car type charges will be applied on Base fares only
4. All the extra fare defined in percentage.
5. Flat fare based on city and trip_type. Unique(city, trip_type.)
6. Fare variation like Night charges and outstation charges vary city to city.
7. Outside Charges: It is based on 2 parameters and if either one is true will apply outside charges
   a. outside=True
   b. trip_type=Outstation
8. Night charges: Considering night between 8pm to 4am

Dump db details:

User:

username: admin
email: admin@admin.com
password: admin

Cars:

SUV
Sedan
Hatchback

Cities:

Mumbai
Bangalore
Delhi

Trip Type:

Outstation
AirportTransfer
PointToPoint