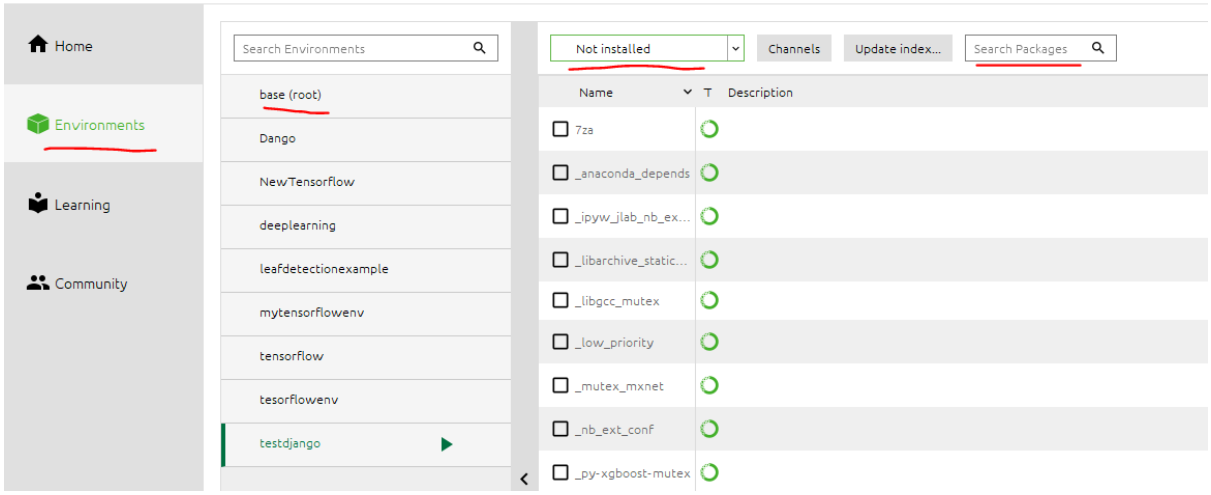
Documentation of Running Django Service:

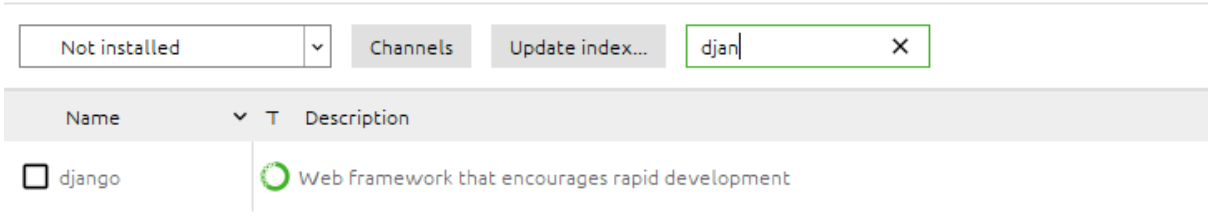
1. Install Anaco nda : 10 points

https://www.anaconda.com/distribution/

2. Install Djano : (30 points for 2 and 3 together)

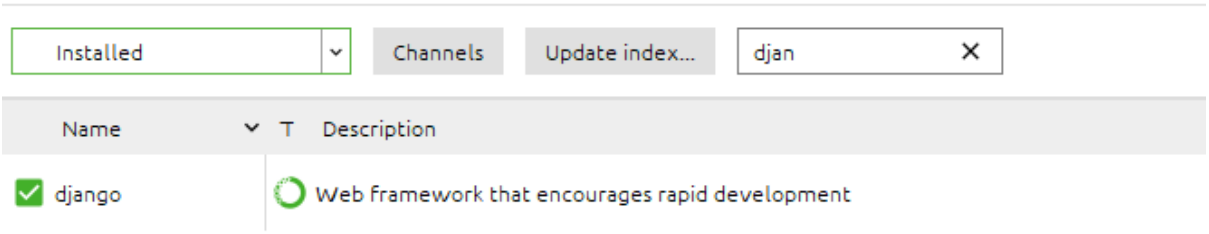


Click on environment → select base → from dropddown select not installed and in search package search for djano



Select and click apply to install.

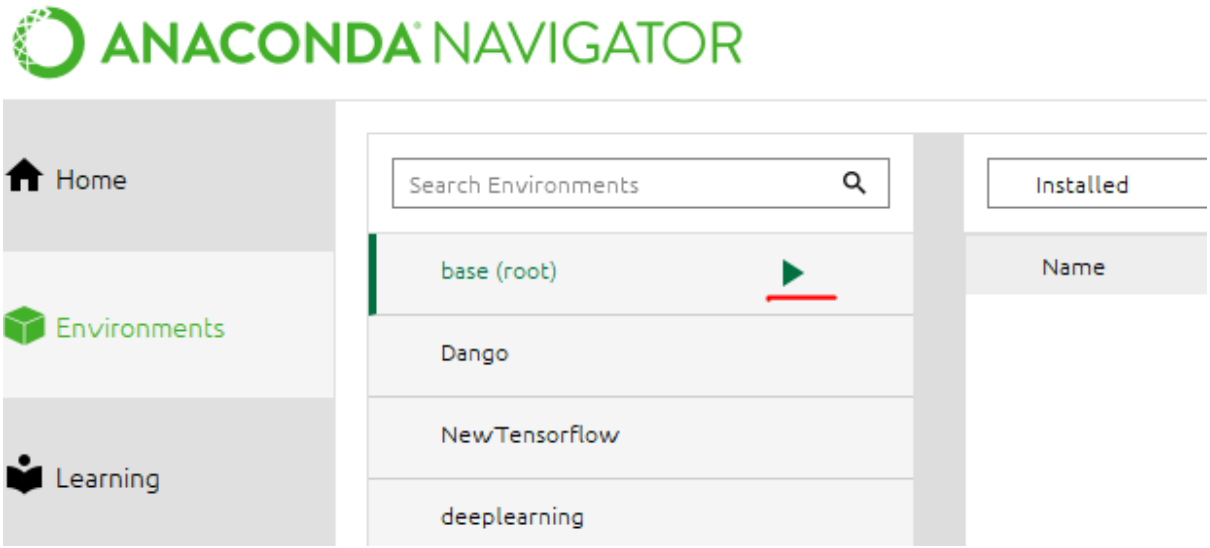
Once the installation is done , select installed from dropdown and search for djano.

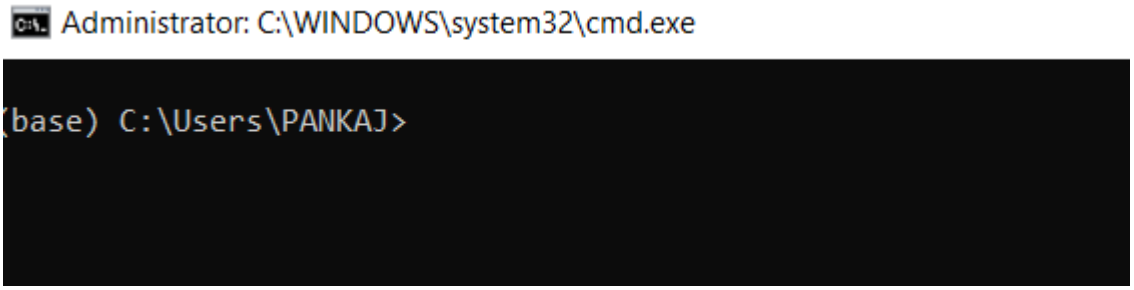


Use version : 1.11.0 of django

3. Verify Django

Launch the terminal by clicking the run button next to base environment and select open terminal

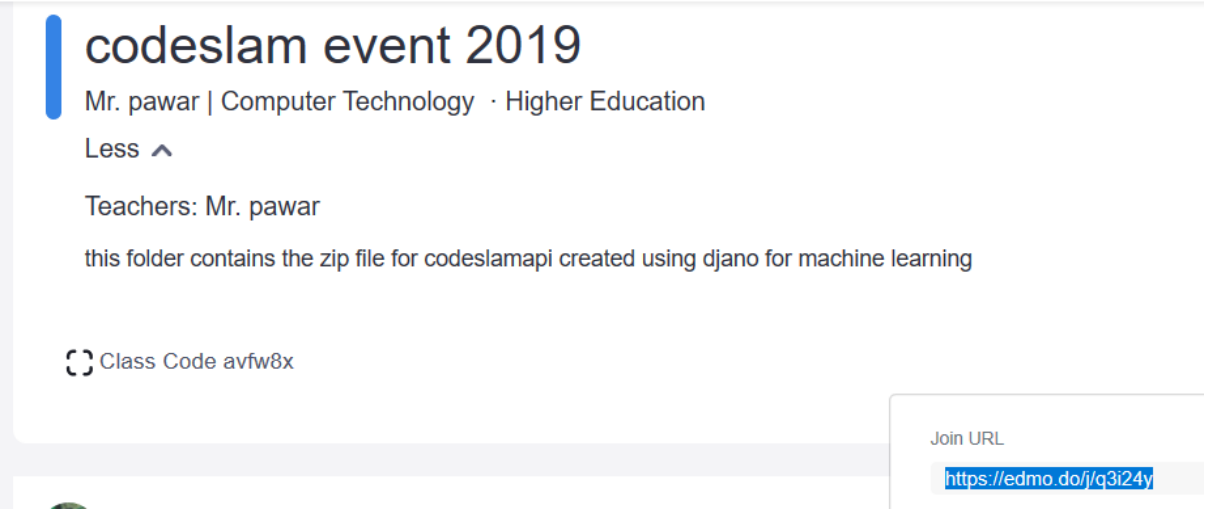




You will see (base) C:\Users\USERNAME>

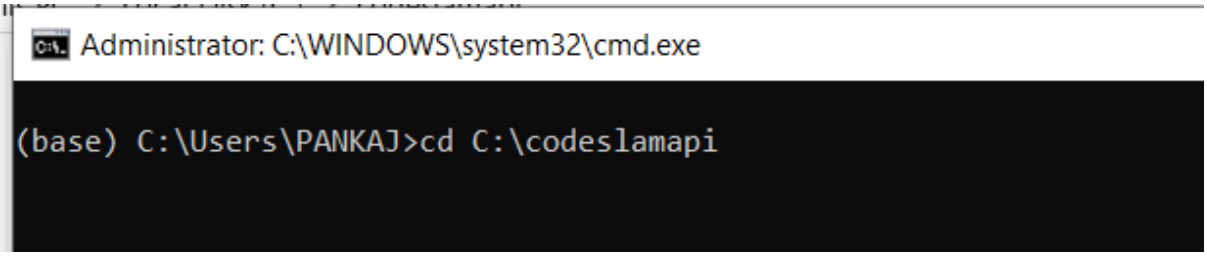
Copy the codeslamapi folder to your c:drive (request sir to provide you with the codeslam folder code) or download it from edmodo.com

Use the following group code to get to access to edmod.com

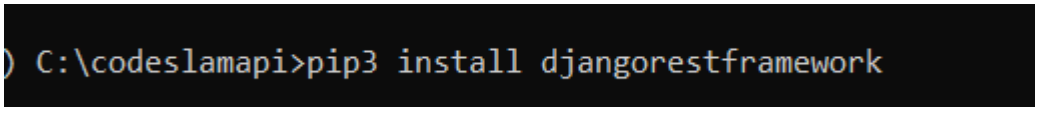


In the terminal ,

Cd to the location:



Now install rest_framework by typing the following command



Now run the following command:

```
c:\codeslamapi>python manage.py runserver 0.0.0.0:8000
```

This will give the following output:

```
Performing system checks...

System check identified no issues (0 silenced).
December 03, 2019 - 00:57:41
Django version 1.11.10, using settings 'gamesapi.settings'
Starting development server at http://0.0.0.0:8000/
Quit the server with CTRL-BREAK.
```

Thus confirming that the djano service is now up and running.

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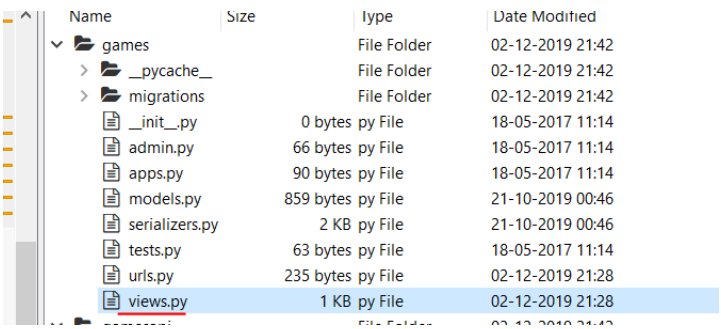
4. Task: (100 Points)

Model Creation and Prediction OF Genres.

1. Complete the code for **Random Forest** model creation **and Decision Tree** model creation by accepting a parameter:
    a. RF : random Forest:
    Rest call :
    http://<IPADDRESS>:8000/createmodel/rf/
    b. DT: Decision Tree.
    Rest call:
    http://<IPADDRESS>:8000/createmodel/dt/

File to modify: views.py



For creating the model , use **wiki_movie_plots_deduped.csv** present in Edmodo.com

And function to modify is:

```
33
34
35
36 @csrf_exempt
37 def createmodel(request,modeltopredict=""):
38     print("create Model")
39     if request.method == 'GET':
40         mydata=  "model created"
41         print("converting Json")
42         print( mydata )
43         return JSONResponse(mydata)
44
```

2. Complete the code for prediction of the genere of new movie based on their Description for using the models created above.
    a. **RF : random Forest**
    Rest Call:
    http://<**IPADDRESS**>:8000/predictmodel/rf/<**DESCRIPTION**>

    b. **DT: Decision Tree.**
    Rest Call:
    http://<**IPADDRESS**>:8000/predictmodel/dt/<**DESCRIPTION**>

For prediction use the following data.

Data1:

Movie name: Kill the Umpire

Description:

"Bill Johnson is a former baseball player whose fanatical devotion to the game has cost him several jobs. He remains steadfast in one thing: he hates umpires. Matters are complicated by the fact that his father-in-law Evans (Ray Collins) is a retired umpire.

During a period of unemployment, needing a job to support his loyal wife Betty (Una Merkel) and two daughters, Johnson is forced by his father-in-law to matriculate in an umpire school. Johnson initially tries to get himself expelled by school director Jimmy O'Brien (William Frawley), but

eventually comes to enjoy his new job. He becomes an ump in the minor leagues, where blurred vision, caused by using the wrong eyedrops, causes him to see everything twice, earning him a nickname as ""Two-Call"" Johnson.

When he calls a popular player out at home plate, the crowd accuses him of dishonesty, leading to a near-riot during which the involved player is knocked out cold. Johnson must disguise himself as a woman, and engage in several madcap subterfuges, to get to an important game on time, but his reputation is restored when the player he had originally called against publicly praises him for his honesty as an umpire. The crowd accepts this, although quickly reversing its opinion again after Johnson, inevitably, makes another call they do not like.

The film's climax is a manic chase scene, scripted by animator and future Jerry Lewis director Frank Tashlin."

Data2:

Movie Name : Louisa

Description :

Grandma Louisa (Spring Byington) begins dating grocer Henry Hammond (Edmund Gwenn), much to the disgust of her son Hal (Ronald Reagan) and the rest of the family. To make matters worse, Hala's boss, Mr. Burnside (Charles Coburn), also becomes a rival for Louisa's affections.

Function to modify is:

```
45
46 @csrf_exempt
47 def predictmodel(request,modeltouse="",Description=""):
48     print("Predict Model")
49     print(Description)
50     if request.method == 'GET':
51         mydata=  "prdicted genere"
52         print("converting Json")
53         print( mydata )
54         return JSONResponse(mydata)
55
```