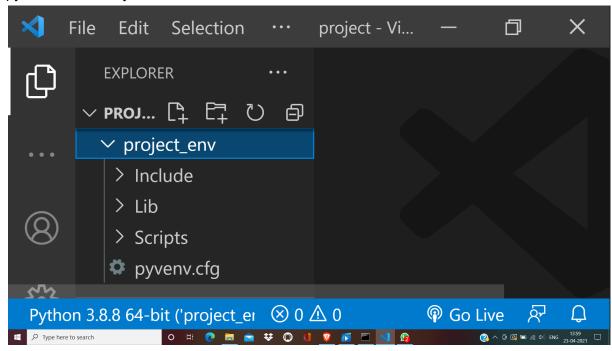
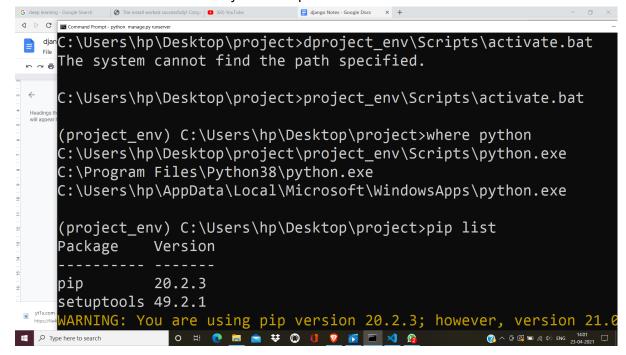
Django Notes

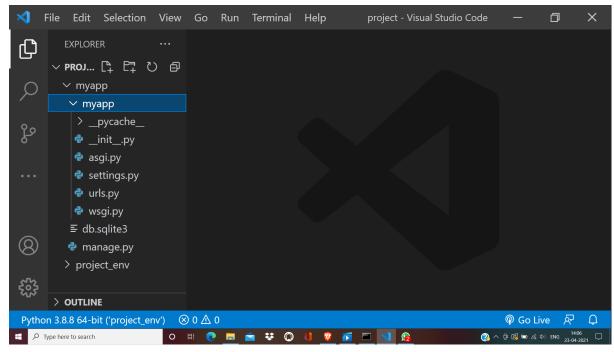
- First, create an environment in windows use command prompt
- python -m venv myvenv



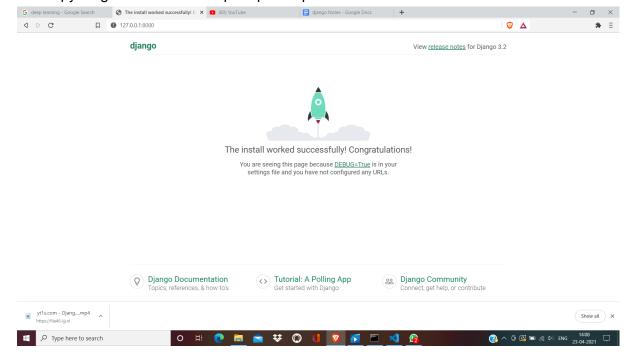
Now to activate use command- myvenv\Scripts\activate.bat



- Now install django inside environment using pip pip install django
- Now create django file by running command- django-admin startproject myapp



- Run python manage.py runserver
- And copy url given in command prompt and paste in browser it will look like-



URLs & Views

- Make a file named views.py and add following syntax
- 1. from django.http import HttpResponse
- 2. def index():
- 3. Return HttpResponse("hello")
- Now open urls and from myapp import views
- And add path('', views.index, name="index")in urlpattern

- For new path there be a little bit changes like path('about', views.about, name="about") in urlpattern
- And ofcourse add function for about in views by repeating step 2 in first point.

Templates

- Create folder named templates outside the project where manage.py file is there
- Create file named index.html
- Now open settings and write templates under the templates dictionary
- Next to open file and import package named from django.shortcuts import render

• In index's body if you write the variable name inside two curly braces it will give you the parameters in the website page

anything to anybody involves things to body

Jacson is very cute lived in Austria

• Creating text area inside form with button for analyzing text, however putting action in form gives the direction to move further i.e. to removepunc

 Making new template called analyze for the page remove punctuation so that it can print text without punctuation

```
<body>
<h1> Your Analyzed Text - {{purpose}}</h1><br>

          {{analyzed_text}}

</body>
```

```
<form action='/analyze' method='get'>
```

 Above picture represent how from index page changes to analyze html page just write with the form in index.html

```
urlpatterns = [
    path('admin/', admin.site.urls),
    path('', views.index, name="index"),
    path('analyze/', views.analyze, name="analyze")
]
```

• This is the path it will follow as shown it will find views and check analyze

```
return render(request, 'analyze.html', params)
```

• This will accept the request and follow what is written in the analyze.html and params is the parameters that is going to pass by function

```
return HttpResponse("Error")
```

• It will print on the analyze.html page

```
djtext = request.GET.get('text','default')
    removepunc = request.GET.get('removepunc','off')
```

 request.GET.get fetch the data that user had entered and save it into the variable djtext.

```
for index, char in enumerate(djtext):
    if not(djtext[index] == " " and djtext[index+1] == " "):
        analyzed=analyzed+char
```

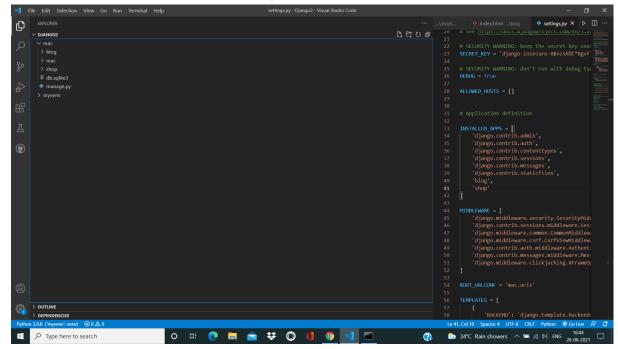
- Enumerate gives the index of each and every character as a result.
- https://www.geeksforgeeks.org/enumerate-in-python/

CSRF token and POST

- Cross Site Request Forgery
- •

Adding apps in project

- Run python manage.py startapp name_of_your_app
- Open your project and open your file name settings.py
- And in INSTALLED_APPS add name of your app inside INSTALLED_APPS



- Mac is your project and blog and shop is your apps that you have created
- Create urls.py in your apps as it does not contain this file by default as in your project.

Creating pipeline for your app to connect apps to project

 In urls.py of your project write address of your apps as in shop and blog written below

```
from django.contrib import admin

from django.urls import path,include

urlpatterns = [
    path('admin/', admin.site.urls),
    path('shop/',include('shop.shopurls')),
    path('blog/',include('blog.blogurls')),
]
```

Now in urls.py of your apps write

```
from django.contrib import admin
from django.urls import path
from. import views

urlpatterns = [
    path("", views.index,name="ShopHome"),
]
```

- Now create templates directory for your apps and inside templates create another directory and name it as apps and now create index.html
- In index.html create whatever you want you can use html css javascript or bootstrap

Now in views.py of your apps write

```
from django.shortcuts import render

# Create your views here.

from django.http import HttpResponse

def index(request):
    return render(request, "shop/index.html")
```

Shop is your directory and index.html is your file to be access

Accessing static files in your website

- Create static folder and create another directory inside static directory and name it as
 of the app and create txt file named mystatic.txt and wite any thing
- Now open index.html of your app and write

```
{% load static %}
     <a href="{% static "blog/mystatic.txt" %}"> Click me</a>
```

Models in Django

- python manage.py migrate
- This command create tables for sqlite3
- python manage.py makemigrations
- python manage.py migrate
- And change 'shop' to 'shop.apps.ShopConfig' in INSTALLED_APPS of settings.py of mac project.

Admin and Super User

- python manage.py createsuperuser
- Now put down your data.

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