# \*\*Django is a MVT pattern(Model,View and Template) Starting django;

- 1. virtualenv project
- 2. Scripts\activate

[if this command gives error like this:

cannot be loaded because the execution of scripts is disabled on this system

then run the windows powershell as administrator and run this command there:

Set-ExecutionPolicy RemoteSigned

Important Note: When you are done, you can set the policy back to its default value with:

Set-ExecutionPolicy Restricted

now run the Scripts\activate again]

- 3. Now the virtual environment is activate as you can see (project) is on the left side
- 4. Now install django:

pip install Django==4.2.1

As everything is installed by this time. Now we should run it.

django-admin startproject mysite [here mysite is the name]

\*\*init and wsgi file is required to run the python modules

\*\*settings and url files where we will actually make changes

Now for running server we have to follow these steps:

for example we want to run manage.py file so the instructions are:

- 1. cd mysite
- 2. python manage.py runserver

you will see a port

ctrl+click on that and voila your server is running perfectly on your browser

#### **Working procedures:**

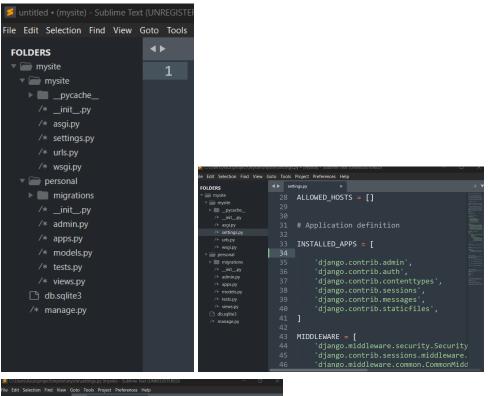
1. **Now** everytime you add a app you have to add that name on settings.py For example you add a name personal:

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Asus\project> Scripts\activate
(project) PS C:\Users\Asus\project> cd mysite
(project) PS C:\Users\Asus\project\mysite> python manage.py startapp personal
(project) PS C:\Users\Asus\project\mysite>
```

2. **Now** you have to add this personal app on settings.py



3. **Now** as I created another folder named templates but in different root so I have to mention the location in settings:

Here BASE\_DIR means the root folder under which my templates folder is in.

Now for showcasing base.html which is the front end part we need some back end works which will help to showcase the base.html file.

For that personal->views.py->

# Create your views here.

def home\_screen\_view(request):

print(request.headers)

return render(request, "base.html", {}) // {} database information

4. **Now** we have to add URL for the page we want to see mysite->urls.py->

### **Django snippets:**

### Passing Variables to a Template with Django:

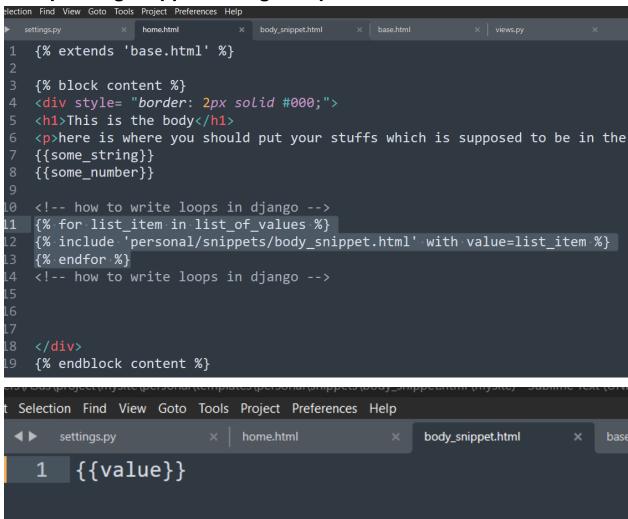
How to return data from the view and display it on the template.

or

# Printing list in Loops in django:

```
ools Project Preferences Help
           × home.html
                                                           × views.py
from django.shortcuts import render
# Create your views here.
def home_screen_view(request):
     context = {}
     context['some_string'] = 'this is some strings that i am passing to the view'
     context['some number'] = 12345
     list_of_values = [] #this is a list
     list_of_values.append("first entry")
     list_of_values.append("2nd entry")
     list_of_values.append("3rd entry")
     list of values.append("4th entry")
     context['list_of_values'] = list_of_values
     return render(request, "personal/home.html", context)
Tools Project Preferences Help
  {% extends 'base.html' %}
  {% block content %}
  <div style= "border: 2px solid #000;">
  <h1>This is the body</h1>
  here is where you should put your stuffs which is supposed to be in the body
  {{some_string}}
  {{some_number}}
  <!-- how to write loops in django -->
  {% for list_item in list_of_values %}
      {{list_item}}
  {% endfor %}
  <!-- how to write loops in django -->
  {% include 'personal/snippets/body_snippet.html' %}
  </div>
  {% endblock content %}
```

# Now passing snippet through loops:



#### **Django Admin panel and Superuser:**

Firstly set up your database

Go to windows powershell and type python manage.py migrate

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Install the latest PowerShell for new features and improvements! htt
PS C:\Users\Asus\project\mysite> python manage.py migrate
Operations to perform:
  Apply all migrations: admin, auth, contenttypes, sessions
Running migrations:
  Applying contenttypes.0001_initial... OK
  Applying auth.0001_initial... OK
  Applying admin.0001_initial... OK
  Applying admin.0002_logentry_remove_auto_add... OK
  Applying admin.0003_logentry_add_action_flag_choices... OK
  Applying contenttypes.0002_remove_content_type_name... OK
  Applying auth.0002_alter_permission_name_max_length... OK
  Applying auth.0003_alter_user_email_max_length... OK
  Applying auth.0004_alter_user_username_opts... OK
  Applying auth.0005_alter_user_last_login_null... OK
  Applying auth.0006_require_contenttypes_0002... OK
  Applying auth.0007_alter_validators_add_error_messages... OK
  Applying auth.0008_alter_user_username_max_length... OK
  Applying auth.0009_alter_user_last_name_max_length... OK
  Applying auth.0010_alter_group_name_max_length... OK
  Applying auth.0011_update_proxy_permissions... OK
  Applying auth.0012_alter_user_first_name_max_length... OK
  Applying sessions.0001_initial... OK
PS C:\Users\Asus\project\mysite>
```

Now we have to create a user with which we can log in with.

Go to windows powershell and type python manage.py createsuperuser

```
Applying sessions.0001_initial... UK

PS C:\Users\Asus\project\mysite> python manage.py createsuperuser

Username (leave blank to use 'asus'): sukarna

Email address: sukarnasarker3@gmail.com

Password:

Password (again):

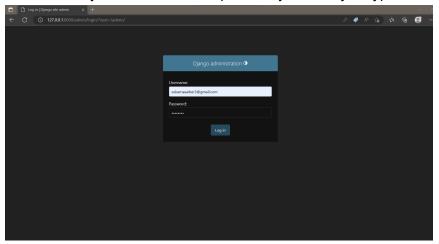
This password is too common.

Bypass password validation and create user anyway? [y/N]: y

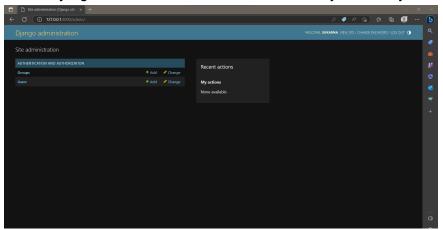
Superuser created successfully.

PS C:\Users\Asus\project\mysite>
```

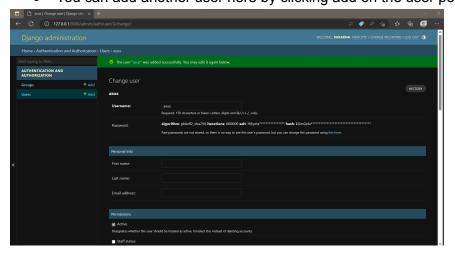
• Enter your username and pw what you have just typed at ....:8000/admin page:



• Django had made some common stuffs for you already



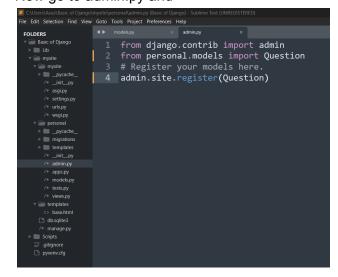
• You can add another user here by clicking add on the user portion



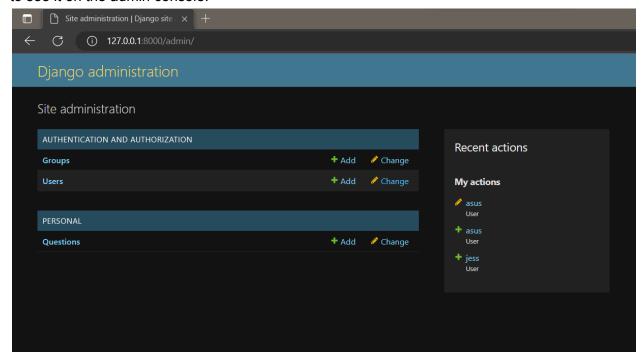
# How to add tables, delete, add information on the tables of the database:

- \*\*Django models are basically used to model the database of my database.
  - Create your first model. personal->personal->models.py

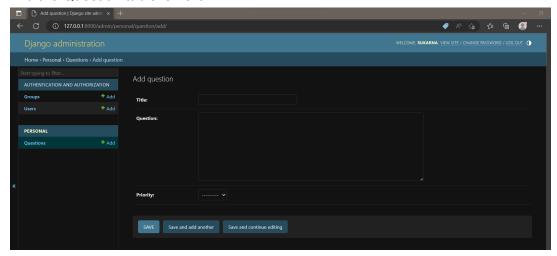
- Now I need to insert this in my database: python manage.py makemigrations
   This command added Question as a table in the database
- Now we have to migrate them: python manage.py migrate
- Now go to admin.py and



So what I am doing is saying that I have created a new table named Question and I want to see it on the admin console.

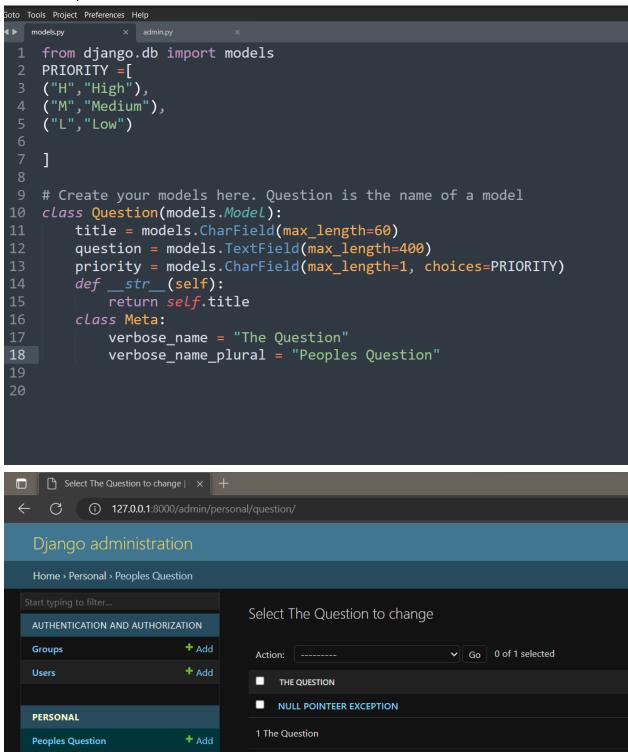


#### And the Question table is here:



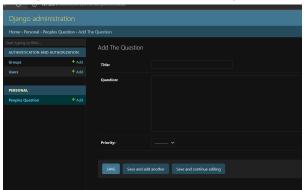
You can also see the title, question and priority fields here which you wrote on models.py

 Now if you add the meta portion like the code below it will change the Questions into Peoples Question and Question which is inside of Questions into The Question



# Displaying data from database:

Here you have Title, Question, Priority.



So I am selecting each of these individual properties and moving them to home.html questions where each question has the parameter name value and then in body\_snippet I am doing value.title,value.priority,value.question

```
* dot how Fraget Project Proje
```

```
| Context | Second |
```

```
| Color | Colo
```