ASSIGNMENT 2

Simple Django application

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Message Board Application using Django

➢Steps

1. Create new project

2. Create new app called posts inside project

3. Go to nb_project/settings.py and add 'posts'

4. Create database model where we can store the display post

5. Activate model migrate file

6. Create Superuser

7. Login now using your credentials

8. Click on the post and add different posts

9. Modify the model add str method in posts/models.py

10. Check Django using python manage.py runserver

11. Display database content to our homepage code views.py and create template

12. Create a new app url file inside posts folder posts/urls.py

13. Include url in your project urls file i.e nb_project/urls.py

14. Run the server

➢Code

// Create new project called nb_project

C:\Users\HP\Desktop> django-admin startproject nb_project cd

nb_project

// Create new app called posts inside project

C:\Users\HP\Desktop\nb_project> python manage.py startapp posts

nb_project/settings.py (add 'posts')

INSTALLED_APPS = [

   'django.contrib.admin',

   'django.contrib.auth',

   'django.contrib.contenttypes',

   'django.contrib.sessions',

   'django.contrib.messages',

   'django.contrib.staticfiles',

   'posts'

]

python manage.py migrate python

manage.py runserver

//open posts/models.py (to create database model where we can store the display post)

from django.db import models class Post(models.Model):

       text = models.TextField()

//to activate model migrate file **python**

manage.py makemigrations posts python

manage.py migrate posts

python manage.py createsuperuser

       Username (leave blank to use 'hp'): supraja
       Email address: (//not necessary) Password:
       Password (again):
       Superuser created successfully.

//Restart your Django server using following command

python manage.py runserver

http://127.0.0.1:8000/admin/ login now using your

credentials

// To display our posts app in admin main page

// add this code in **posts/admin.py**

```
from django.contrib import admin

from .models import Post admin.site.register(Post)
```

//check Django for post now python
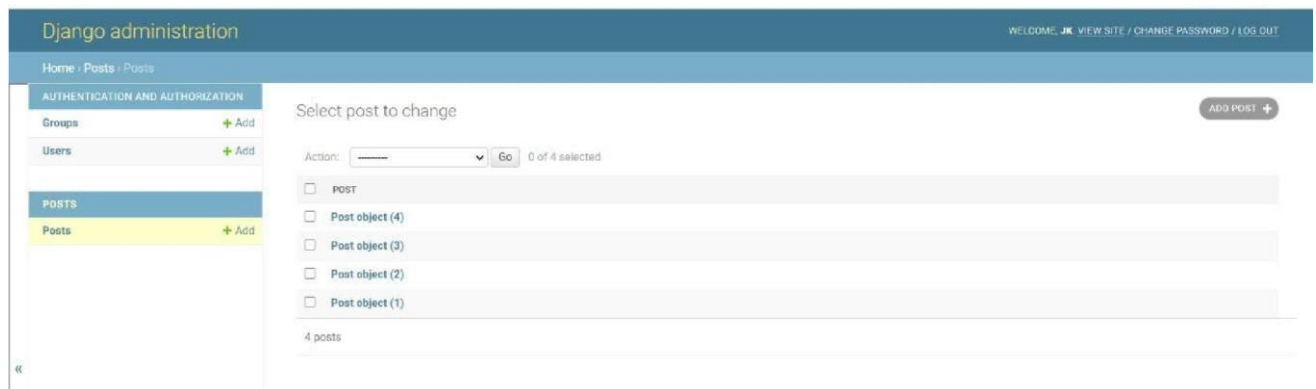
manage.py runserver

http://127.0.0.1:8000/

//Click on the post and add different posts

//To modify the model add str method in **posts/models.py**

```
from django.db import models class
Post(models.Model):
        text = models.TextField()
        def __str__(self): return
        self.text[:50]
```

//check Django using **python manage.py runserver**

//To display database content to our homepage code views.py and create template

//now create templates directory using command prompt **mkdir**

templates

//create home.html inside the templates folder with following code

```
<h1>Message Board Homepage</h1>
<ul>
        {% for post in object_list %}
        <li>{{post}}</li>
        {%endfor%}
```

```
        </ul>
```

// In **nb_project/settings.py** update DIRS Field for templates folder

```
        TEMPLATES = [
          {
            'BACKEND': 'django.template.backends.django.DjangoTemplates',
            'DIRS': [os.path.join(BASE_DIR,'templates')],
            'APP_DIRS': True,
            'OPTIONS': {
             },
```
// add this code in **posts/views.py**   from
```
        django.shortcuts import render from
        django.views.generic import ListView from
        .models import Post class
        HomePageView(ListView):
                        model=Post template_name =
                        'home.html' context_object_name =
                        'all_posts_list'
```
// Create a new app url file inside posts folder **posts/urls.py** and insert the following code

```
        from django.conf.urls import url from .views
        import HomePageView urlpatterns = [    url('',
        HomePageView.as_view(),name='home'),
        ]
```

// include url in your project urls file i.e **nb_project/urls.py**
```
         from django.contrib import admin from
        django.urls import path from django.conf.urls
        import include,url urlpatterns = [    url('admin/',
        admin.site.urls),
           url('',include('posts.urls')),
        ]
```

python manage.py runserver

http://127.0.0.1:8000/
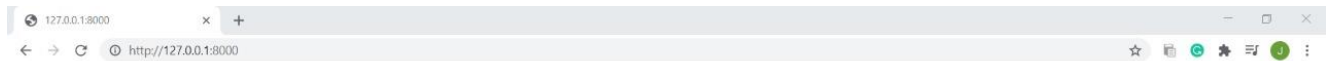
Message Board Homepage

- Welcome to IPT
- "This is my first Django Program!!!"
- "Message Board Application"
- 'Thank You !!!'