

# 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**

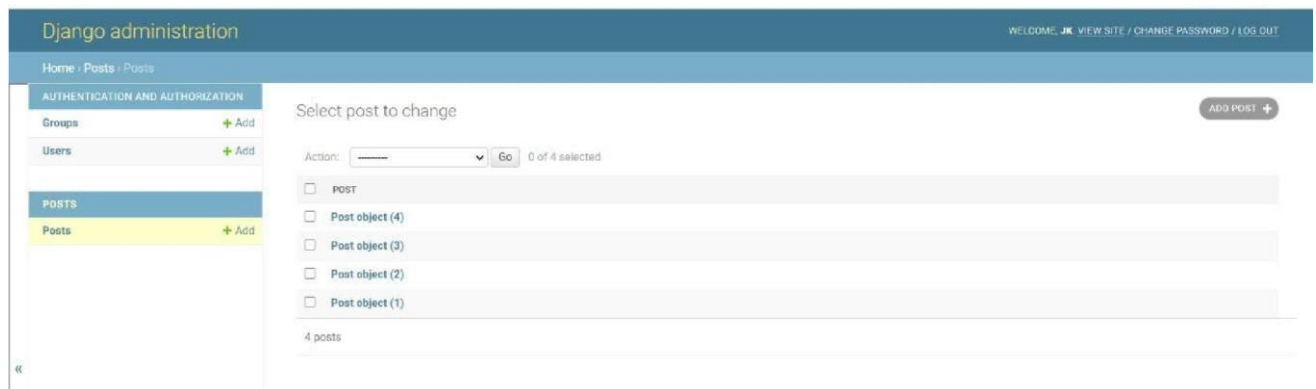
http://127.0.0.1:8000/

//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

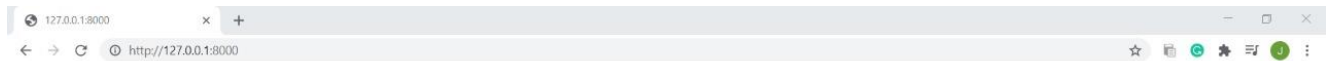
```
from django.conf.urls import url from .views
import HomePageView urlpatterns = [ url("",
    HomePageView.as_view(),name='home'),
]
```

// 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 !!!"

```
Command Prompt - python manage.py runserver
[09/Nov/2020 13:59:43] "GET / HTTP/1.1" 200 165
[09/Nov/2020 13:59:50] "GET /admin/posts/post/ HTTP/1.1" 200 6673
[09/Nov/2020 13:59:52] "POST /admin/posts/post/ HTTP/1.1" 302 0
[09/Nov/2020 13:59:52] "GET /admin/posts/post/ HTTP/1.1" 200 6866
[09/Nov/2020 13:59:52] "GET /admin/js/lib/ HTTP/1.1" 200 3187
C:\Users\shp\mb_project\posts\views.py changed, reloading.
Watching for file changes with StatReloader
Performing system checks...
System check identified no issues (0 silenced).
November 09, 2020 - 14:00:25
Django version 3.1.3, using settings 'nb_project.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
[09/Nov/2020 14:00:35] "GET /admin/ HTTP/1.1" 200 6787
[09/Nov/2020 14:00:35] "GET /static/admin/css/base.css HTTP/1.1" 304 0
[09/Nov/2020 14:00:35] "GET /static/admin/css/nav_sidebar.css HTTP/1.1" 304 0
[09/Nov/2020 14:00:35] "GET /static/admin/css/dashboard.css HTTP/1.1" 304 0
[09/Nov/2020 14:00:35] "GET /static/admin/css/responsive.css HTTP/1.1" 304 0
[09/Nov/2020 14:00:35] "GET /static/admin/js/nav_sidebar.js HTTP/1.1" 304 0
[09/Nov/2020 14:00:35] "GET /static/admin/css/fonts.css HTTP/1.1" 304 0
[09/Nov/2020 14:00:35] "GET /static/admin/img/icon-addlink.svg HTTP/1.1" 304 0
[09/Nov/2020 14:00:35] "GET /static/admin/img/icon-changelink.svg HTTP/1.1" 304 0
[09/Nov/2020 14:00:35] "GET /static/admin/img/icon-deletelink.svg HTTP/1.1" 200 392
[09/Nov/2020 14:00:35] "GET /static/admin/fonts/Roboto-Light-webfont.woff HTTP/1.1" 304 0
[09/Nov/2020 14:00:35] "GET /static/admin/fonts/Roboto-Regular-webfont.woff HTTP/1.1" 304 0
[09/Nov/2020 14:00:35] "GET /static/admin/fonts/Roboto-Bold-webfont.woff HTTP/1.1" 304 0
[09/Nov/2020 14:00:38] "GET / HTTP/1.1" 200 165
[09/Nov/2020 14:01:12] "GET / HTTP/1.1" 200 219
```

