

How to run “news” Django project

Step 1: create a new Virtual environment and activate it:

On Windows:

- `python -m venv env`

On macOS:

- `python3 -m venv env`

activate virtual environment:

On Windows:

- `env\Scripts\Activate.ps1`

On macOS:

- `source env/bin/activate`

Step 2: enter “news” project folder (you need to download the project from Microsoft Team first)

Command: `cd news`

Command: `pip install -r requirements.txt` (to install all the dependencies)

Command: `python manage.py runserver`

After the above two steps, you should see below page if you visit: <http://127.0.0.1:8000/>

Newspaper

[Log In](#) [Sign Up](#)

Log In

Username:

Password:

Group permission and assign users to the corresponding group:

- I. related code changes I made as below:
In “admin.py” under “accounts” folder:

```

fieldsets = (
    ('Personal info', {
        'fields': ('email', 'username', 'age', 'password',)
    }),
    ('Group Permissions', {
        'classes': ('wide',),
        'fields': ('groups', )
    }),
)

add_fieldsets = UserAdmin.add_fieldsets + (
    ('Personal info', {
        'fields': ('email', 'age',)
    }),
    ('Group Permissions', {
        'classes': ('wide',),
        'fields': ('groups', )
    }),
)

```

If you login as “jones” with password: “Jo900919” by visiting:
<http://127.0.0.1:8000/admin/>

You can see admin page now have “add a user to group option” as below:

Django administration

Home - Accounts - Users

WELCOME, JONES VIEW SITE / CHANGE PASSWORD / LOG OUT

Start typing to filter...

ACCOUNTS

Users [+ Add](#)

ARTICLES

Articles [+ Add](#)

Comments [+ Add](#)

AUTHENTICATION AND AUTHORIZATION

Groups [+ Add](#)

Select user to change

Search

Action: [Go](#) 0 of 4 selected

EMAIL ADDRESS	USERNAME	AGE	STAFF STATUS
<input type="checkbox"/> Smith@gofly.com	Smith	25	●
<input type="checkbox"/> jones@gmail.com	jones	27	●
<input type="checkbox"/> steven@gmail.com	steven	28	●
<input type="checkbox"/> tester@gmail.com	tester	25	●

4 users

[ADD USER](#)

FILTER

By staff status

All
Yes
No

By superuser status

All
Yes
No

By active

All
Yes
No

By groups

All
admins
members
visitors
-

Verify permission:

- related code changes I made as below

In “article_detail.html” under “template” folder:

```
{% if perms.articles.add_comment %}
<h4>Add a comment</h4>
<form action="" method="post">{% csrf_token %}
  {{ form|crispy }}
  <button class="btn btn-success ml-2" type="submit">Save</button>
</form>
<hr>
{% endif %}

{% if perms.articles.add_article %}
<p><a href="{% url 'article_edit' article.pk %}">Edit</a> |
  <a href="{% url 'article_delete' article.pk %}">Delete</a></p>
<p>Back to <a href="{% url 'article_list' %}">All Articles</a>.</p>
{% endif %}
```

If you now login as “tester” (belongs to visitor group) with password: “Te900919” by visiting:
<http://127.0.0.1:8000/>

You should see below page (which indicates “tester” only has view permission as defined the group the user belongs to):

[Django - by jones | Nov. 21, 2022, 8:15 a.m.](#)

click here

Django is a framework of python, open-source and widely used...

Django

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Django is a framework of python, open-source and widely used...

Comments

jones · Django is awesome

tester · rrr