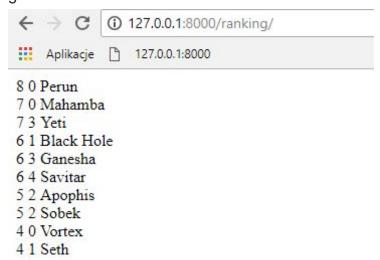
## **Test assignment for Summer Python Internship (solution).**

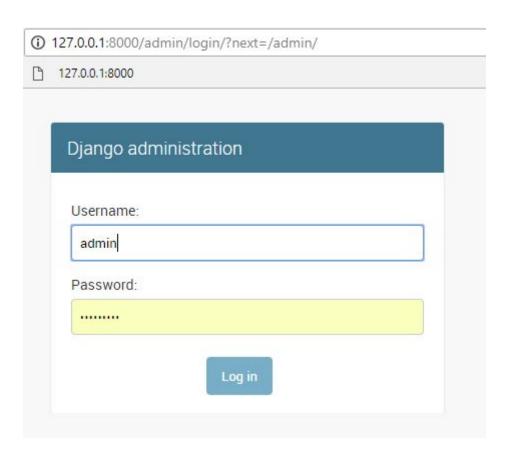
- 1. Clone or download <u>Test-Assignment</u> directory.
- 2. Install necessary libraries: numpy, django, djangorestframework.
- 3. Open directory with *manage.py* file and type in command prompt:

## python manage.py runserver

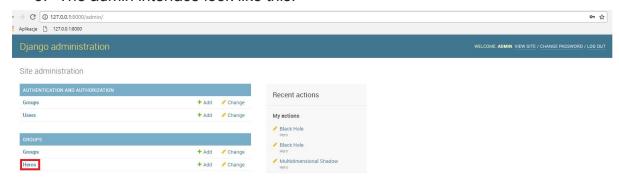
4. Open web browser and go to <a href="http://127.0.0.1:8000/ranking/">http://127.0.0.1:8000/ranking/</a>, you should see the ranking:



Go to <a href="http://127.0.0.1:8000/admin/login/?next=/admin/">http://127.0.0.1:8000/admin/login/?next=/admin/</a>, and log in as admin user. The username is 'admin' and the password is the name of engine from planet Sakaar.



5. The admin interface look like this:



- 6. Here you can add/delete heroes or change their attributes.
- 7. Open second command prompt in manage.py path and type:

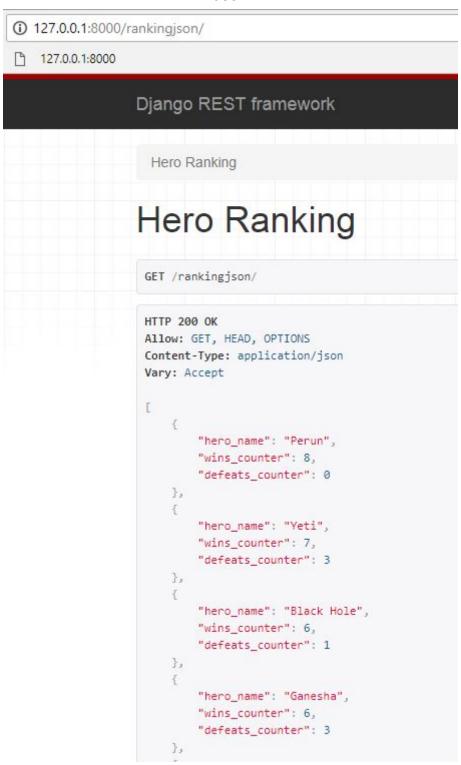
## python manage.py shell

8. *Import Hero* class and *kill* function *from groups.models and groups.functions* files.

```
C:\Users\czyz\Desktop\Python\SG-project\test_assignment>python manage.py shell
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 16:07:46) [MSC v.1900 32 bit (Inte
1)] on win32
Type "help", "copyright", "credits" or "license" for more information.
(InteractiveConsole)
>>> from groups.models import Hero
>>> from groups.functions import kill
>>> kill(Hero.objects.filter(hero_name='Mahamba')[0])
C:\Users\czyz\AppData\Local\Programs\Python\Python36-32\lib\site-packages\django
\db\models\fields\__init__.py:1423: RuntimeWarning: DateTimeField Hero.murder_da
te received a naive datetime (2018-06-12 21:12:43.917839) while time zone suppor
t is active.
RuntimeWarning)
>>> ___
```

Killed heroes does not figure in the ranking. Refresh <a href="http://127.0.0.1:8000/ranking/">http://127.0.0.1:8000/ranking/</a> page.

It is possible to display the ranking (<a href="http://127.0.0.1:8000/rankingjson/">http://127.0.0.1:8000/rankingjson/</a> ) or list of defeated heroes (<a href="http://127.0.0.1:8000/defeatedheroeslist/">http://127.0.0.1:8000/defeatedheroeslist/</a> ) in <a href="json">json</a> format as admin user.



9. Every hero has a group\_id attribute which indicates group membership.

10. There is a *Paring* function which enables to make pairs from groups with no repetition. The function takes group\_id argument.

For example: 1 is for 'Cryptids'.

There is 4 heroes in this group that are able to pair so there is only 6 unique pairs.

Make interaction array reset all pairing history.