

Back-End Frameworks

Aula 4 - 03/03/2023





https://bit.ly/23_1_backend_m





O que temos para hoje?

- Criando o primeiro app;
- Trabalhando com banco de dados;
- Criando um superusuário;
- Início do trabalho;









Projeto x app?





 Na pasta mysite, rodar o comando: py manage.py startapp polls





```
polls/
__init__.py
admin.py
apps.py
migrations/
__init__.py
models.py
tests.py
views.py
```





- Na pasta mysite/polls, editar o arquivo views.py;
- Adicionar o código:

```
from django.http import HttpResponse

def index(request):
    return HttpResponse("Hello, world. You're at the polls index.")
```









- Dentro da pasta polls, criar um arquivo chamado urls.py;
- Neste arquivo, adicionar o código:

```
from django.urls import path

from . import views

urlpatterns = [
    path('', views.index, name='index'),
]
```





 No arquivo urls.py, dentro da pasta mysite, deixar da seguinte forma:

```
from django.contrib import admin
from django.urls import include, path

urlpatterns = [
    path('polls/', include('polls.urls')),
    path('admin/', admin.site.urls),
]
```





Rodar o comando: py manage.py runserver





Page not found (404)

Request Method: GET

Request URL: http://127.0.0.1:8000/

Using the URLconf defined in mysite.urls, Django tried these URL patterns, in this order:

- 1. polls/
- 2. admin/

The empty path didn't match any of these.

You're seeing this error because you have DEBUG = True in your Django settings file. Change that to False, and Django will display a standard 404 page.







Hello, world. You're at the polls index.





- Exercício:
- Criar duas novas views chamadas detail e contact e adicioná-la ao arquivo polls/urls.py;
- O conteúdo delas pode ser qualquer;
- No final, você deve ter duas novas páginas criadas:

http://127.0.0.1:8000/polls/detail

http://127.0.0.1:8000/polls/contact





Trabalhando com banco de dados

You have 18 unapplied migration(s). Your project may not work properly until you a pply the migrations for app(s): admin, auth, contenttypes, sessions. Run 'python manage.py migrate' to apply them.

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Trabalhando com banco de dados

Migrations: as migrações são inteiramente derivada de seu arquivo de modelos, e são essencialmente apenas uma história que o Django pode avançar para atualizar o esquema de banco de dados para coincidir com seus modelos atuais.





Rodar o comando: py 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
```





Trabalhando com banco de dados

No arquivo polls/models.py, criar duas classes:

```
class Question(models.Model):
    question_text = models.CharField(max_length=200)
    pub_date = models.DateTimeField('date published')

class Choice(models.Model):
    question = models.ForeignKey(Question, on_delete=models.CASCADE)
    choice_text = models.CharField(max_length=200)
    votes = models.IntegerField(default=0)
```





 Referência completa de campos: https://docs.djangoproject.com/en/4.1/ref/mo dels/fields/





 No arquivo mysite/settings.py, linha 34, adicionar o texto: 'polls.apps.PollsConfig',





```
# Application definition
31
32
33
     INSTALLED_APPS = [
34
          'polls.apps.PollsConfig',
          'django.contrib.admin',
35
          'django.contrib.auth',
36
37
          'django.contrib.contenttypes',
          'django.contrib.sessions',
38
          'django.contrib.messages',
39
          'django.contrib.staticfiles',
40
41
```





Trabalhando com banco de dados

Rodar o comando: py manage.py makemigrations polls

```
Migrations for 'polls':
   polls/migrations/0001_initial.py
   - Create model Question
   - Create model Choice
```





Rodar o comando: py manage.py migrate

```
Operations to perform:
Apply all migrations: admin, auth, contenttypes, polls, sessions
Running migrations:
Applying polls.0001_initial... OK
```





- Rodar o comando: py manage.py createsuperuser
- Username: admin
- Email address: email de vocês;
- Password: 12345678
- Password (again): 12345678
- Output
 Apertar Y;





```
Username (leave blank to use 'fabricioaraujo'): admin Email address: araujopa@gmail.com
Password:
Password (again):
This password is too common.
This password is entirely numeric.
Bypass password validation and create user anyway? [y/N]: y Superuser created successfully.
```

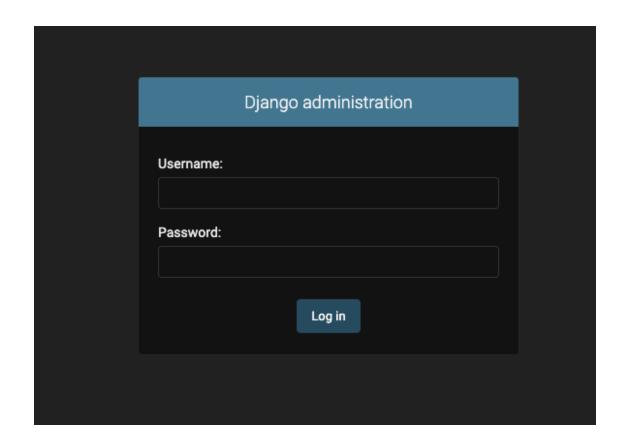




- Rodar o comando: py manage.py runserver
- Acessar a url: http://127.0.0.1:8000/admin/

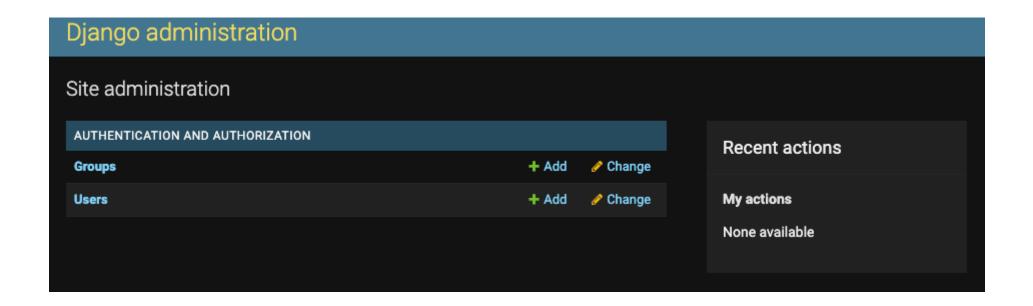
















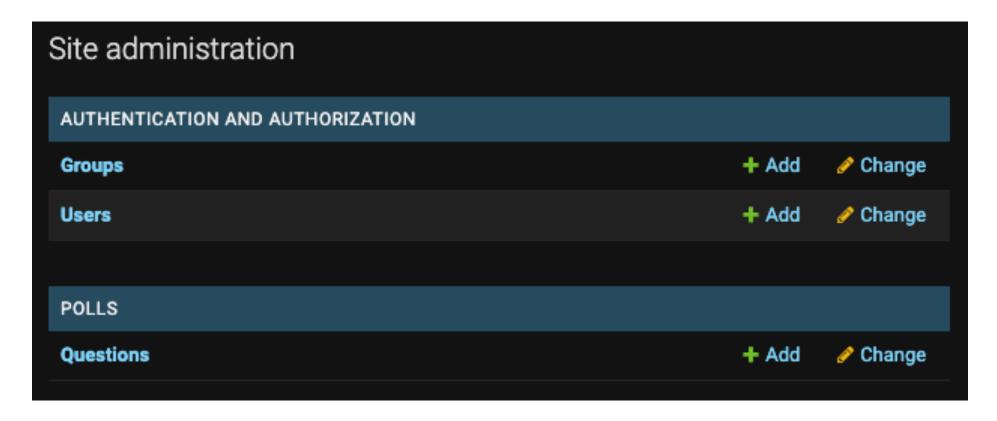
No arquivo polls/admin.py, adicionar as linhas:

```
from django.contrib import admin
from .models import Question
admin.site.register(Question)
```





Criando um <mark>superusuário</mark>







Exercício: adicionar uma pergunta;





 Exercício: importar para o admin a tabela Choice;





Início do trabalho

- Criar um novo app chamado blog;
- Fazer todos os passos para criar a url /blog, apontando para a index no arquivo views.py;





Início do trabalho

- Oriar duas tabelas:
 - post: com os campos titulo (CharField), texto (TextField), e pub_date (DateTimeField);
 - comentario: com os campos post_id (ForeignKey para a tabela post), texto (CharField) e com_date (DateTimeField);
 - Popular essas duas tabelas com pelo menos 2 posts e 3 comentários e cada post;





Obrigado!

Alguma pergunta?

Contato:

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