



Passos para criar projeto e app Django

1. Instalar Python (garantindo que está no *Path* das variáveis de ambiente)

2. Numa pasta criada para o projeto:

```
$ python -m pip install pipenv
```

cria ambiente virtual

```
$ pipenv shell
```

ativa o ambiente virtual

```
$ pipenv install django
```

instala o Django

3. Garanta que se encontra dentro da pasta criada quando executa estes comandos:

```
$ django-admin startproject project .
```

cria projeto

```
$ python manage.py migrate
```

cria base de dados

```
$ python manage.py createsuperuser
```

cria conta utilizador admin

```
$ python manage.py startapp app1
```

cria aplicação app1

4. No ficheiro `project/settings.py`, adicionar a `app1` a `INSTALLED_APPS`.

5. Criar classes de modelo em models.py

```
from django.db import models

class Pessoa(models.Model):
    nome = models.CharField(max_length=100)
    idade = models.IntegerField(verbose_name='Ano de criação')

    def __str__(self):
        return f"{self.nome} - {self.idade} anos"
```

6. Registrar classe em admin.py.

```
from django.contrib import admin
from .models import Pessoa

# Register your models here.
admin.site.register(Pessoa)
```

7. Migrar alterações em models para base de dados

```
$ python manage.py makemigrations
```

 cria base de dados

```
$ python manage.py migrate
```

 cria base de dados

```
$ python manage.py runserver
```

 lança servidor

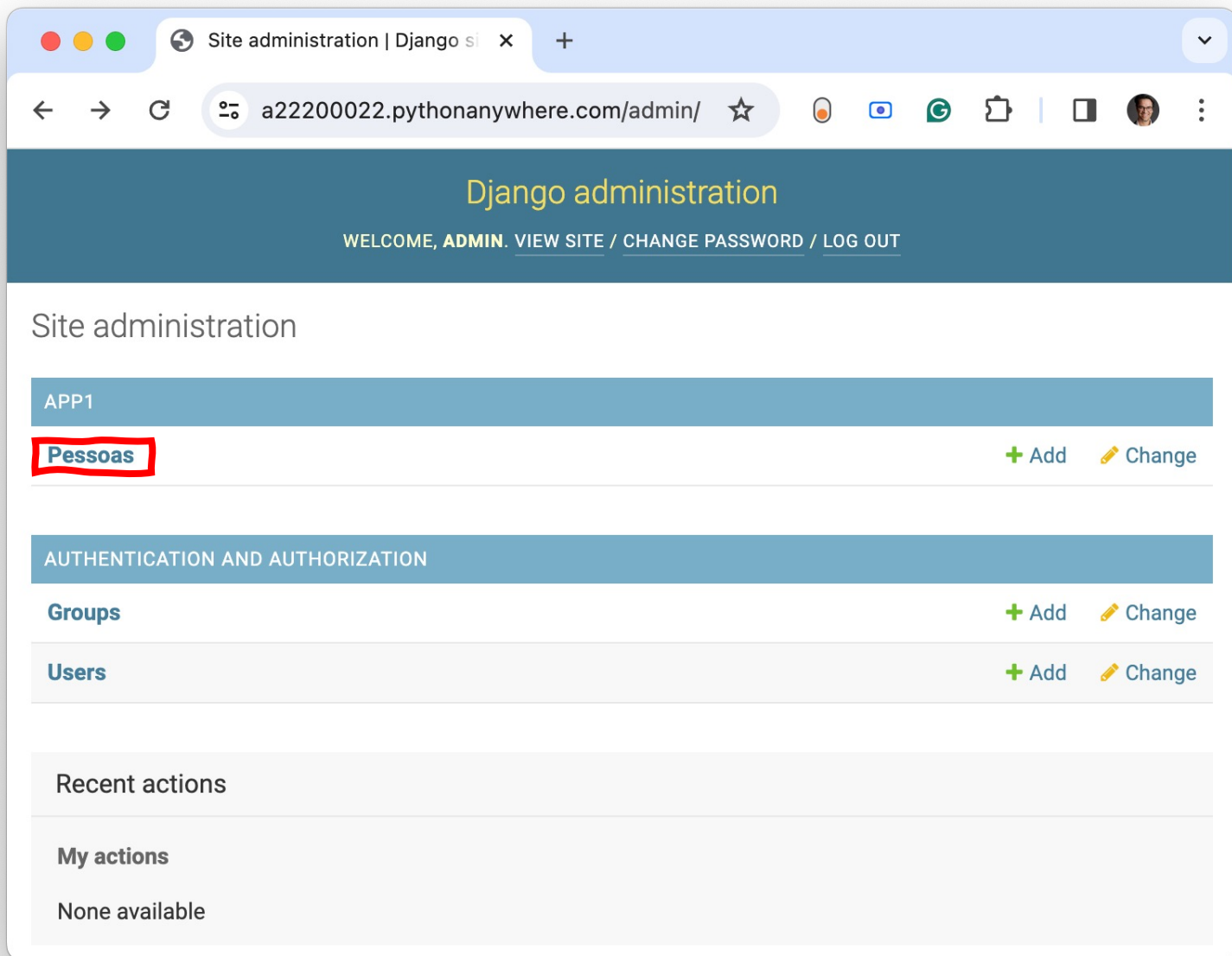
8. Abrir aplicação admin no browser, <http://127.0.0.1/admin>

9. autentique-se com credenciais de superuser criadas e crie objetos

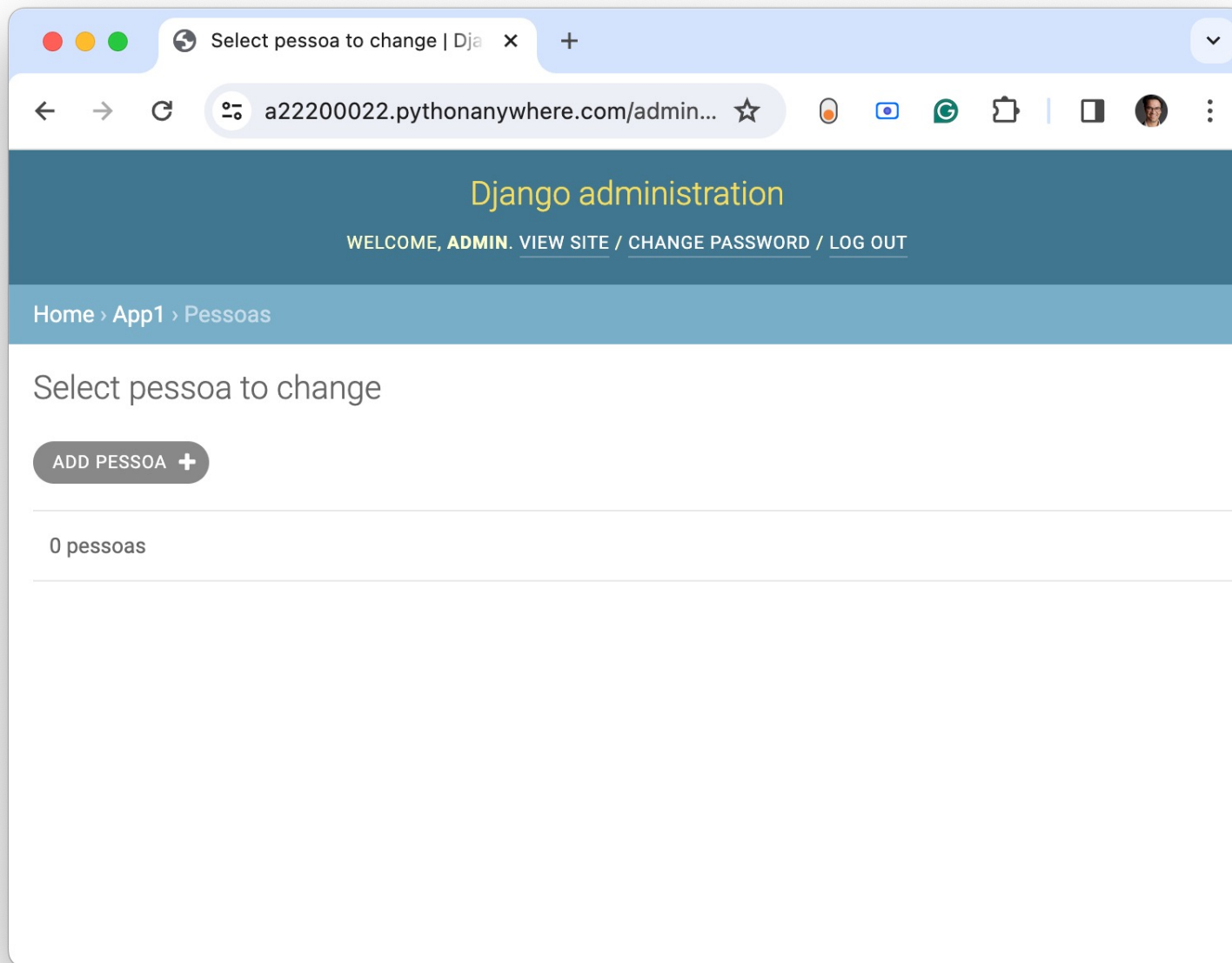
5.4 Autenticar-se na aplicação admin (escrever admin no final do URL)

The screenshot shows a web browser window with the title 'Log in | Django site admin'. The address bar displays the URL 'a22200022.pythonanywhere.com/admin', where the word 'admin' is highlighted with a red rectangle. The main content area shows the 'Django administration' login form. The form has a header 'Django administration' and two input fields: 'Username:' with the value 'admin' and 'Password:' which is empty. Below the fields is a blue button labeled 'LOG IN'.

5.5 Em admin, abrir a tabela Pessoas



5.6 Em admin, criar uma nova Pessoa



5.6 Em admin, criar uma nova Pessoa

The screenshot shows a web browser window with the Django administration interface. The browser's address bar displays the URL `a22200022.pythonanywhere.com/admin/app1/pe...`. The page title is "Django administration". Below the title, there is a navigation bar with the text "WELCOME, ADMIN. VIEW SITE / CHANGE PASSWORD / LOG OUT". The main content area is titled "Add pessoa". On the left side, there is a sidebar with a search bar and a list of items: "APP1", "Pessoas" (highlighted in yellow), "AUTHENTICATION AND AUTHORIZATION", "Groups", and "Users". The "Pessoas" item has a "+ Add" button next to it. The "Groups" and "Users" items also have "+ Add" buttons. The "Add pessoa" form has two fields: "Nome:" with a text input containing "Joao Santos", and "Idade:" with a numeric input containing "20". At the bottom of the form, there are three buttons: "Save and add another", "Save and continue editing", and "SAVE".

Start typing to filter...

APP1

Pessoas + Add

AUTHENTICATION AND AUTHORIZATION

Groups + Add

Users + Add

Add pessoa

Nome:

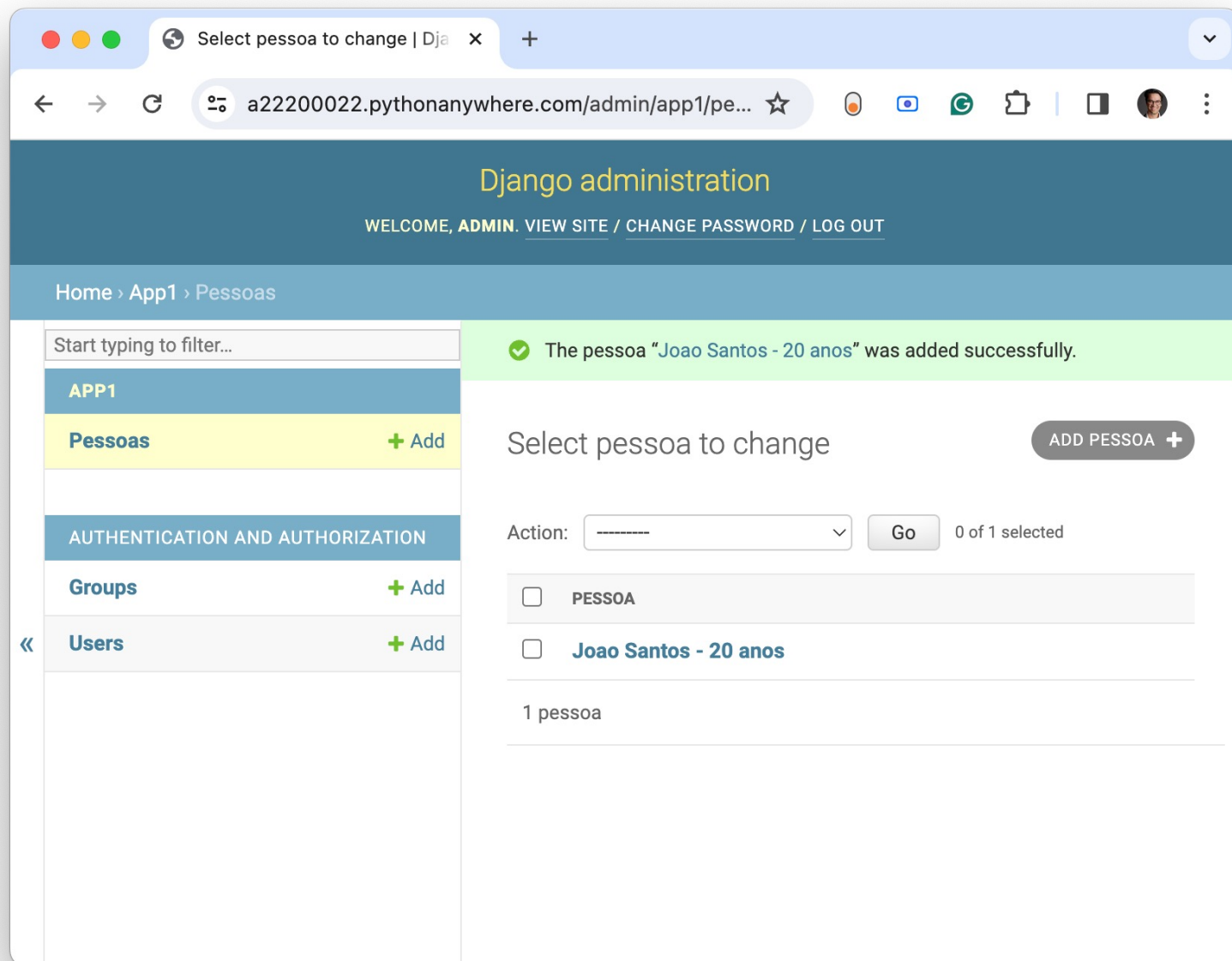
Joao Santos

Idade:

20

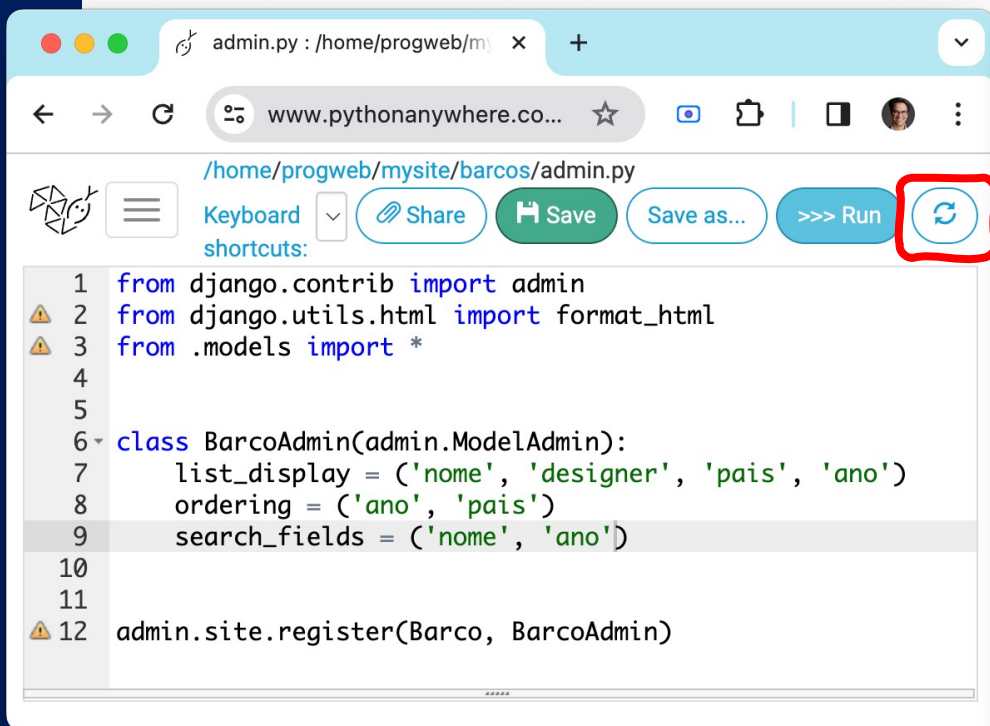
Save and add another Save and continue editing SAVE

5.6 Em admin, criar uma nova Pessoa



Configurações de visualização (exemplo usando outra classe)

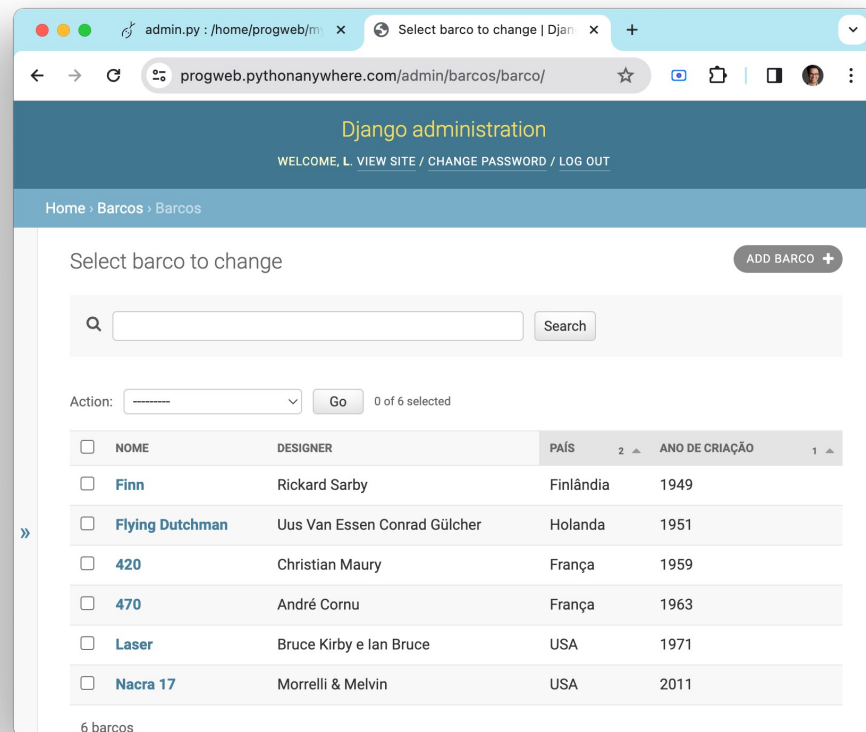
- `list_display`: campos que aparecem na lista de objetos.
- `ordering`: permite especificar critério de ordenação.
- `search_fields`: cria caixa de pesquisa associada aos campos indicados.



The screenshot shows a code editor with the following Python code:

```
1 from django.contrib import admin
2 from django.utils.html import format_html
3 from .models import *
4
5
6 class BarcoAdmin(admin.ModelAdmin):
7     list_display = ('nome', 'designer', 'pais', 'ano')
8     ordering = ('ano', 'pais')
9     search_fields = ('nome', 'ano')
10
11
12 admin.site.register(Barco, BarcoAdmin)
```

The editor interface includes a toolbar with buttons for 'Keyboard shortcuts', 'Share', 'Save', 'Save as...', '>>> Run', and a circular refresh icon (highlighted with a red box).



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