



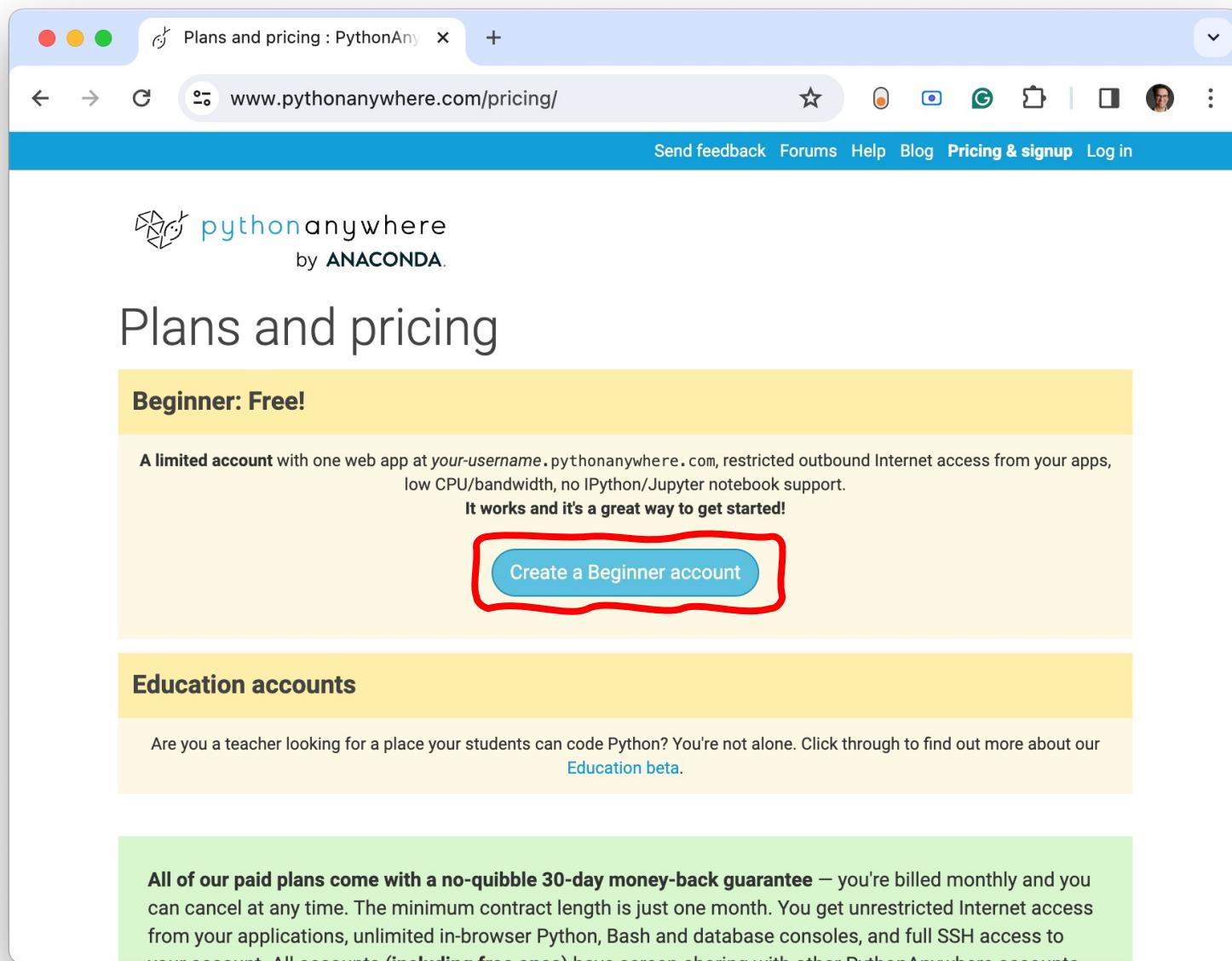
# Pythonanywhere

Ambiente cloud onde desenvolverão e terão a correr  
o vosso projeto e aplicações

# 1. Criação de conta no pythonanywhere

Em [pythonanywhere.com](http://pythonanywhere.com) clicar em [Sign up here!](#)

The screenshot shows a web browser window with the title "Login: PythonAnywhere". The address bar contains the URL "www.pythonanywhere.com/login/" with a red box highlighting it. Below the address bar, there is a navigation bar with links: "Send feedback", "Forums", "Help", "Blog", "Pricing & signup", and "Log in". The main content area features the PythonAnywhere logo (a stylized "py" icon) and the text "pythonanywhere" followed by "by ANACONDA.". A large "Log in" button is centered above two input fields: "Username or email address" and "Password". Below these fields is a link "Forgotten password?". At the bottom of the form is a blue "Log in" button. To the left of the form, there is a link "No account? [Sign up here!](#)". Both the "Sign up here!" link and the URL in the address bar are highlighted with red boxes.



# Utilize como username o seu número de aluno

to store personal data and need [GDPR](#) compliance —  
you can try our [EU-hosted site](#) instead. The servers are  
all in Germany, and so is all of your data. Also, for paid  
accounts, prices are in euros :-)

## Create your account

Username: a222222

Email:

Password:

Password (again):

I agree to the [Terms and Conditions](#) and the [Privacy and Cookies Policy](#), and confirm that I am at least 13 years old.

[Register](#)

We promise not to spam or pass your details on to anyone else.

Copyright © 2011-2024 PythonAnywhere LLP – [Terms](#) – [Privacy & Cookies](#)

[Privacy - Terms](#)

## Atualize o seu email. Receberá email que deve confirmar

The screenshot shows a web browser window with the title "Account : a22200022 : PythonAnywhere". The URL in the address bar is "www.pythontanywhere.com/user/a22200022/account/...". The page content is as follows:

**Update your email address:**

You have not confirmed your email address

lucio.studer@gmail.com

**Update and send confirmation email** (This button is highlighted with a red box.)

We will send you an email with a link to confirm this address

**Manage your email preferences:**

Hints and tips  
 System downtime alerts  
 Resource Warnings  
 Teacher/student alerts  
 Newsletter (may include special offers or other marketing content)

We will always email you with any essential information – for example, if your account might be deleted due to inactivity, if we can't collect payment for a paid account, or if you have a free website that is going to expire.

**Save**

# 2. Criação de um Projeto Django

## 2.1 Passos para criação de um Projeto Django

The screenshot shows a web browser window for PythonAnywhere. The URL in the address bar is [www.pythonanywhere.com/user/a22200022/webapp...](https://www.pythonanywhere.com/user/a22200022/webapp...). The page title is "Web app setup : a22200022". The top navigation bar includes links for "Send feedback", "Forums", "Help", "Blog", "Account", and "Log out". Below the navigation is a logo for "pythonanywhere by ANACONDA". The main menu has tabs for "Dashboard", "Consoles", "Files", "Web" (which is highlighted with a red box), "Tasks", and "Databases". A yellow warning box states: "Warning You have not confirmed your email address yet. This means that you will not be able to reset your password if you lose it. If you cannot find your confirmation email anymore, send yourself a new one [here](#)." At the bottom left, a blue button with a plus sign and the text "Add a new web app" is also highlighted with a red box. The central content area says "You have no web apps" and provides instructions: "To create a PythonAnywhere-hosted web app, click the \"Add a new web app\" button to the left." The footer contains the URL [https://www.pythonanywhere.com/user/a22200022/webapps/#id\\_new\\_webapp\\_tab](https://www.pythonanywhere.com/user/a22200022/webapps/#id_new_webapp_tab), and links for "Terms", "Privacy & Cookies".

## 2.2 Passos para criação de um Projeto Django

The screenshot shows a web browser window titled "Web app setup : a22200022". The URL is "www.pythonanywhere.com/user/a22200022/webapps/#ta...". The page is titled "Create new web app" and displays the message: "Your web app's domain name. Your account doesn't support custom domain names, so your PythonAnywhere web app will live at a22200022.pythonanywhere.com. Want to change that? [Upgrade now!](#) Otherwise, just click "Next" to continue." At the bottom, there are "Cancel", "« Back", and "Next" buttons. The "Next" button is highlighted with a red rectangle.

Django

## 2.3 Passos para criação de um Projeto Django

The screenshot shows a web browser window for PythonAnywhere. The title bar says "Web app setup : a22200022". The address bar shows "www.pythonanywhere.com/user/a22200022/webapps/#ta...". The top navigation bar includes links for "Send feedback", "Forums", "Help", "Blog", "Account", and "Log out". Below the navigation is a logo for "pythonanywhere by ANACONDA." and a blue button labeled "+ Add a new web app". A modal dialog box titled "Create new web app" is open, with a red box highlighting the "» Django" option in a list of frameworks. Other options listed are "» web2py", "» Flask", "» Bottle", and "» Manual configuration (including virtualenvs)". At the bottom of the dialog are "Cancel", "« Back", and "Next »" buttons. The footer of the page includes copyright information: "Copyright © 2011-2024 PythonAnywhere LLP – Terms – Privacy & Cookies".

## 2.4 Passos para criação de um Projeto Django

The screenshot shows a web browser window for PythonAnywhere. The title bar says "Web app setup : a22200022". The address bar shows the URL "www.pythonanywhere.com/user/a22200022/webapps/#ta...". The top navigation bar includes links for "Send feedback", "Forums", "Help", "Blog", "Account", and "Log out". Below the navigation is a logo for "pythonanywhere by ANACONDA." and a blue button labeled "+ Add a new web app". A modal dialog box titled "Create new web app" is open, with a header "Select a Python version". It lists four options: "» Python 3.7 (Django 3.2.13)", "» Python 3.8 (Django 4.0.6)", "» Python 3.9 (Django 4.0.6)", and "» Python 3.10 (Django 4.0.6)". The last option, "Python 3.10 (Django 4.0.6)", is highlighted with a red rectangle. Below the list is a note: "Note: If you'd like to use a different version of Django to the default version, you can use a virtualenv for your web app. There are [instructions here](#)". At the bottom of the modal are buttons for "Cancel", "« Back", and "Next »". The footer of the page contains copyright information: "Copyright © 2011-2024 PythonAnywhere LLP – Terms – Privacy & Cookies".

## 2.5 Passos para criação de um Projeto Django

The screenshot shows a web browser window titled "Web app setup : a22200022" on the PythonAnywhere website. The URL is [www.pythontanywhere.com/user/a22200022/webapps/#ta...](http://www.pythontanywhere.com/user/a22200022/webapps/#ta...). The page header includes links for "Send feedback", "Forums", "Help", "Blog", "Account", and "Log out". Below the header, there's a navigation bar with links for "pythonanywhere by ANACONDA.", "Dashboard", "Consoles", "Files", "Web", "Tasks", and "Databases". A blue button labeled "+ Add a new web app" is visible. A modal dialog box titled "Create new web app" is open, containing the "Quickstart new Django project" section. This section explains that it will create a brand new Django app and offers a "Manual config" alternative. It has fields for "Project Name" (containing "project", which is highlighted with a red box), "Directory" (containing "/home/a22200022"), and a preview area showing the "django" logo. At the bottom of the modal are "Cancel", "« Back", and "Next »" buttons.

## 2.6 Criação do projeto concluída. Abrir, clicando no URL [a22200022.pythonanywhere.com](https://a22200022.pythonanywhere.com)

The screenshot shows a web browser window titled "Web app setup : a22200022". The address bar contains the URL [www.pythonanywhere.com/user/a22200022/webapps/#ta...](https://www.pythonanywhere.com/user/a22200022/webapps/#ta...). The page header includes links for "Send feedback", "Forums", "Help", "Blog", "Account", and "Log out". Below the header, the PythonAnywhere logo and "by ANACONDA." are displayed. A navigation menu with tabs for "Dashboard", "Consoles", "Files", "Web" (which is highlighted with a red box), "Tasks", and "Databases" is shown. A blue header bar contains the project name "a22200022.pythonanywhere.com". Below this, a button for "Add a new web app" is visible. The main content area starts with "Configuration for a22200022.pythonanywhere.com" (also highlighted with a red box). A "Reload" button is present. The "Best before date:" section explains that the site can be hosted free for up to three months if it's checked in every three months. It mentions that sites marked as "Paying users" stay up forever. The "Traffic:" section asks how busy the site is. At the bottom, there are links for "This month (previous month)" and "7 (0)".

Web app setup : a22200022

www.pythonanywhere.com/user/a22200022/webapps/#ta...

Send feedback Forums Help Blog Account Log out

pythonanywhere by ANACONDA.

a22200022.pythonanywhere.com

Add a new web app

Configuration for a22200022.pythonanywhere.com

Reload:

Reload a22200022.pythonanywhere.com

Best before date:

We're happy to host your free website – and keep it free – for as long as you want to keep it running, but you'll need to log in at least once every three months and click the "Run until 3 months from today" button below. We'll send you an email a week before the site is disabled so that you don't forget to do that. [See here for more details.](#)

This site will be disabled on **Tuesday 11 June 2024**

Run until 3 months from today

Paying users' sites stay up forever without any need to log in to keep them running.

Traffic:

How busy is your site?

This month (previous month)

7 (0)

# Projeto a correr

The screenshot shows a web browser window with the following details:

- Title Bar:** The install worked successfully
- Address Bar:** a22200022.pythonanywhere.com
- Page Content:**
  - Header:** django
  - Text:** View [release notes](#) for Django 4.0
  - Image:** A green rocket ship launching from a white cloud.
  - Text:** The install worked successfully! Congratulations!
  - Text:** You are seeing this page because `DEBUG=True` is in your settings file and you have not configured any URLs.
- Footer:**
  - Django Documentation:** Topics, references, & how-to's
  - Tutorial: A Polling App:** Get started with Django
  - Django Community:** Connect, get help, or contribute

## 2.7 Abrir uma consola Bash na pasta do manage.py, para migrar base dados

The screenshot shows the PythonAnywhere file manager interface. At the top, there's a navigation bar with links for Send feedback, Forums, Help, Blog, Account, and Log out. Below the navigation bar, the PythonAnywhere logo and the word "pythonanywhere" are displayed, along with "by ANACONDA". The main menu includes Dashboard, Consoles, Files (which is highlighted with a red box and labeled 1), Web, Tasks, and Databases. A status message indicates "0% full - 2.1 MB of your 512.0 MB quota" with a "More Info" link. The "Files" section is active, showing a list of directories and files. Under "Directories", there are entries for "media/", "project/", and "static/", each with a trash icon. Under "Files", there is a file named "manage.py" with a download icon, last modified on "2024-03-11 00:38", and size "667 bytes". There is also a "New file" button. At the bottom of the "Files" section, there's a button labeled "Upload a file" and a note "100MiB maximum size". The URL in the browser address bar is "www.pythonanywhere.com/user/a22200022/files/home/a22200022...".

## 2.8 Aplicar migrações para criar base de dados inicial (com tabelas inerentes ao django autenticação, etc.)

The screenshot shows a web-based terminal interface with a title bar "Bash console 32794489 : a2220002" and "settings.py : /home/a2220002". The main area is a terminal window titled "Bash console 32794489". A red box highlights the command "01:19 ~/project \$ python manage.py migrate". The terminal output shows the migration process:

```
01:19 ~/project $ python 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
01:19 ~/project $
```

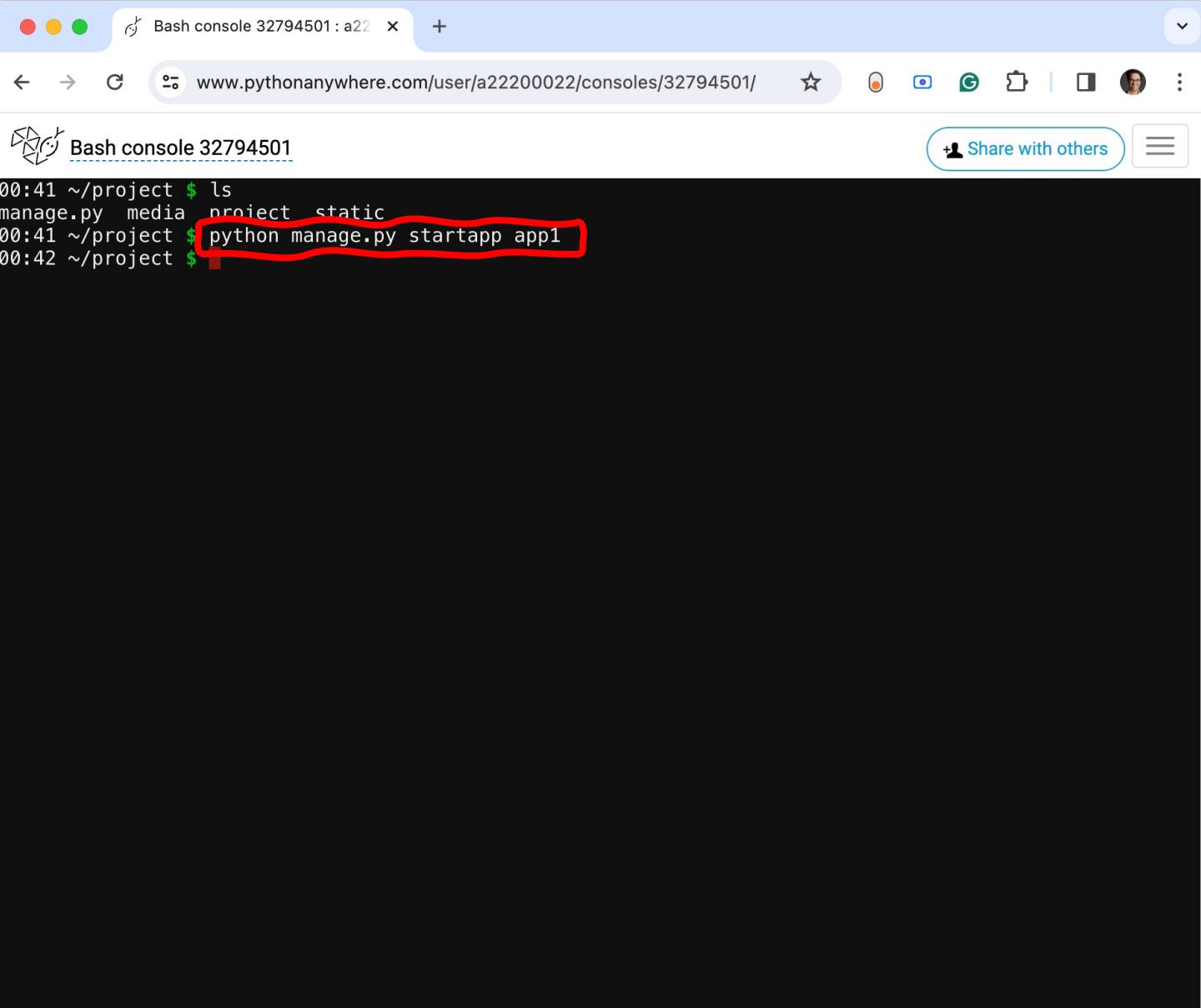
## 2.9 Criar conta de superuser, credenciais que usaremos para entrar na aplicação admin, de administração da base de dados.

The screenshot shows a web browser window with three tabs: "admin.py : /home/a2...", "Bash console 32795", and "ChatGPT". The "Bash console 32795" tab is active and displays a terminal session. A red box highlights the terminal window. The terminal output is as follows:

```
22:49 ~/project $ python manage.py createsuperuser
Username (leave blank to use 'a22200022'): admin
Email address:
Password:
Password (again):
The password is too similar to the username.
This password is too short. It must contain at least 8 characters.
This password is too common.
Bypass password validation and create user anyway? [y/N]: y
Superuser created successfully.
23:10 ~/project $
```

# 3. Criação de Aplicação

### 3.1 Criar uma aplicação (esta chama-se app1)



A screenshot of a web-based Bash console interface. The title bar says "Bash console 32794501 : a22". The URL in the address bar is "www.pythonanywhere.com/user/a22200022/consoles/32794501/". The console window has a title "Bash console 32794501". A red box highlights the command "python manage.py startapp app1".

```
00:41 ~/project $ ls
manage.py  media  project  static
00:41 ~/project $ python manage.py startapp app1
00:42 ~/project $
```

## 3.2 Em settings.py, registrar a aplicação

The screenshot shows the PythonAnywhere 'Files' interface. At the top, there are tabs for Dashboard, Consoles, Files (which is selected and highlighted with a red box), Web, Tasks, and Databases. Below the tabs, it says '0% full - 2.1 MB of your 512.0 MB quota' with a 'More Info' link and a 'Open Bash console here' button.

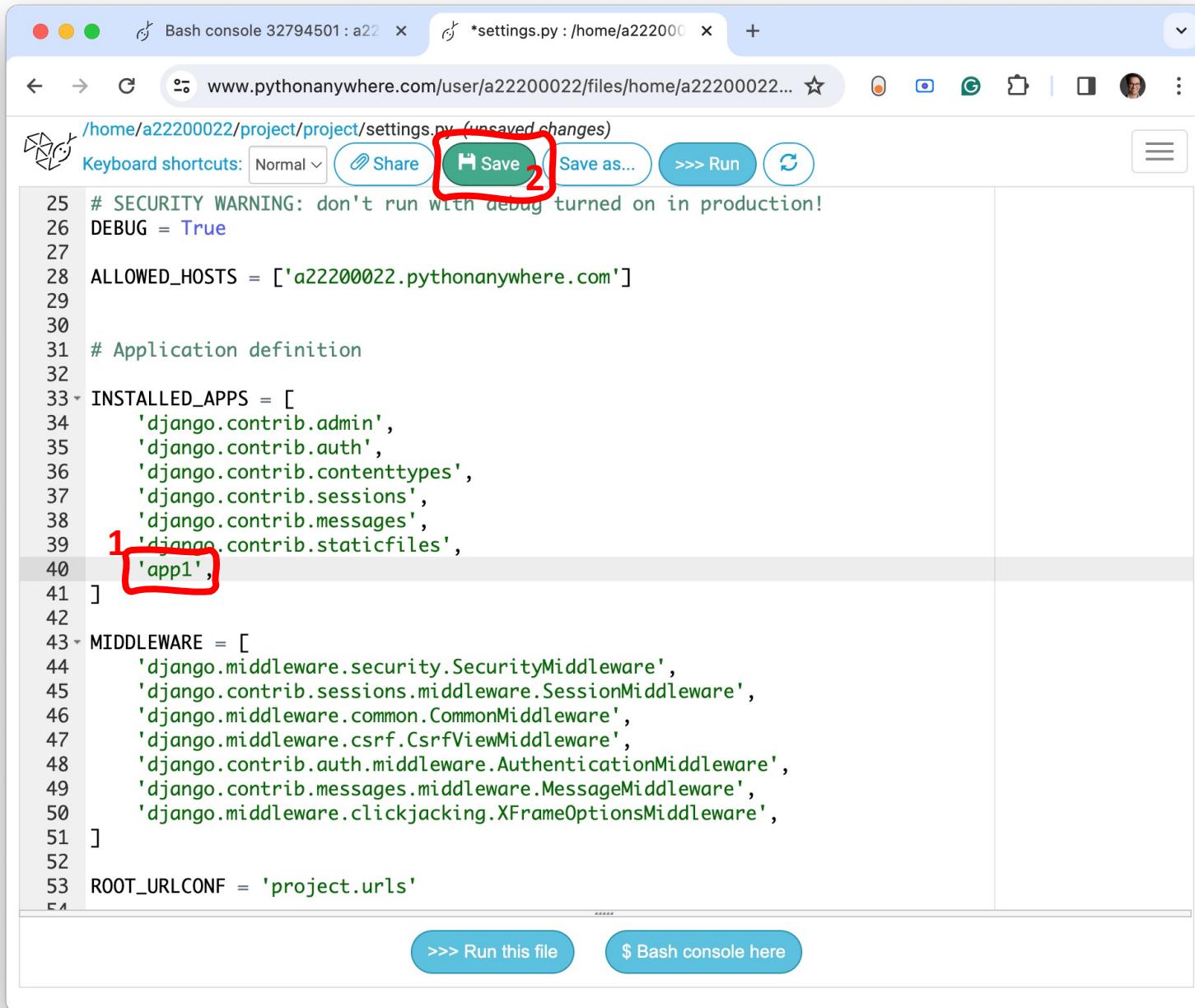
In the 'Directories' section, there is a text input field 'Enter new directory name' and a 'New directory' button.

In the 'Files' section, there is a text input field 'Enter new file name, eg hello.py' and a 'New file' button. A list of files is shown:

File	Last Modified	Size
__init__.py	2024-03-11 00:38	0 bytes
asgi.py	2024-03-11 00:38	391 bytes
<b>settings.py</b>	2024-03-11 00:58	3.5 KB
urls.py	2024-03-11 00:38	749 bytes
wsgi.py	2024-03-11 00:38	391 bytes

At the bottom left, there is a yellow 'Upload a file' button and the text '100MiB maximum size'. The footer contains the copyright notice 'Copyright © 2011-2024 PythonAnywhere LLP — Terms — Privacy & Cookies'.

### 3.2 Em settings.py, registar a aplicação na lista INSTALLED\_APPS



```
Bash console 32794501 : a22  *settings.py : /home/a222000  +  
www.pythonanywhere.com/user/a22200022/files/home/a22200022... ☆  
/home/a22200022/project/project/settings.py (unsaved changes)  
Keyboard shortcuts: Normal Share Save Save as... >>> Run Refresh  
25 # SECURITY WARNING: don't run with debug turned on in production!  
26 DEBUG = True  
27  
28 ALLOWED_HOSTS = ['a22200022.pythonanywhere.com']  
29  
30  
31 # Application definition  
32  
33 INSTALLED_APPS = [  
34     'django.contrib.admin',  
35     'django.contrib.auth',  
36     'django.contrib.contenttypes',  
37     'django.contrib.sessions',  
38     'django.contrib.messages',  
39     'django.contrib.staticfiles',  
40     'app1',  
41 ]  
42  
43 MIDDLEWARE = [  
44     'django.middleware.security.SecurityMiddleware',  
45     'django.contrib.sessions.middleware.SessionMiddleware',  
46     'django.middleware.common.CommonMiddleware',  
47     'django.middleware.csrf.CsrfViewMiddleware',  
48     'django.contrib.auth.middleware.AuthenticationMiddleware',  
49     'django.contrib.messages.middleware.MessageMiddleware',  
50     'django.middleware.clickjacking.XFrameOptionsMiddleware',  
51 ]  
52  
53 ROOT_URLCONF = 'project.urls'  
54
```

>>> Run this file \$ Bash console here

# 4. Adição de novas classes de Modelo à Aplicação

## 4.1 Em models.py, definir as classes que pretendemos ter

The screenshot shows the PythonAnywhere Files interface. At the top, there are two tabs: "Bash console 32794501 : a22" and "app1 : /home/a22200022/proj". The URL in the address bar is "www.pythonanywhere.com/user/a22200022/files/home/a22200022...". Below the tabs is a navigation bar with links: Send feedback, Forums, Help, Blog, Account, Log out. The "Files" tab is highlighted with a red box and the number 1. The main area shows the contents of the "app1" directory under "/home/a22200022/project".  
**Directories:** A text input field says "Enter new directory name" with a "New directory" button.  
**Files:** A text input field says "Enter new file name, eg hello.py" with a "New file" button.  
The "Files" section lists several files:

- \_\_init\_\_.py
- admin.py
- apps.py
- 2 models.py (highlighted with a red box)
- tests.py
- views.py

Each file entry includes download, edit, and delete icons and a timestamp (e.g., 2024-03-11 00:42) and size (e.g., 0 bytes).  
At the bottom left is an orange "Upload a file" button, and at the bottom center is the text "100MiB maximum size".  
The footer contains the PythonAnywhere copyright notice: "Copyright © 2011-2024 PythonAnywhere LLP — Terms — Privacy & Cookies".

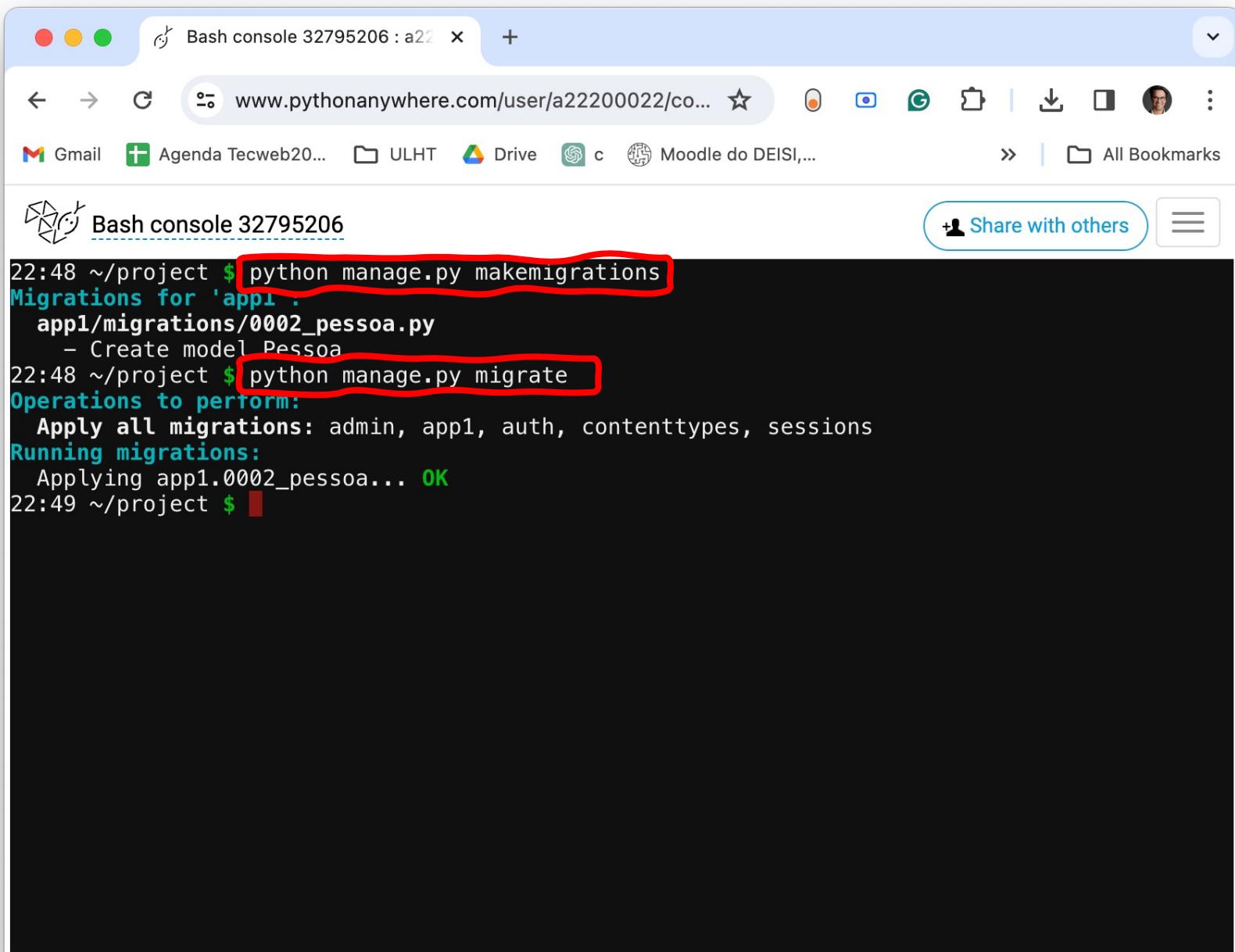
## 4.1 Em models.py, definir as classes que pretendemos ter

Django

The screenshot shows a web-based code editor interface. At the top, the title bar says "models.py : /home/a2220002". The address bar shows the URL "www.pythonanywhere.c...". Below the address bar are various browser navigation and utility icons. A red box highlights the file path in the address bar: "/home/a2220002/project/app1/models.py". In the toolbar below, there are buttons for "Share", "Save" (which is highlighted with a red box), "Save as...", "Run", and "Reset". A dropdown menu for "Keyboard shortcuts" is open. The main area of the editor contains the following Python code:

```
1 from django.db import models
2
3 class Pessoa(models.Model):
4     nome = models.CharField(max_length=100)
5     idade = models.IntegerField()
6
7     def __str__(self):
8         return f'{self.nome} - {self.idade} anos'
9
10
11
12
13
14
15
16
17
```

## 4.2 Gerar e aplicar migrações para atualizar o esquema da base de dados com as alterações feitas nas classes de modelos



The screenshot shows a web-based terminal interface with a Bash console window titled "Bash console 32795206 : a22". The terminal displays the following command-line session:

```
22:48 ~/project $ python manage.py makemigrations
Migrations for 'app1':
  app1/migrations/0002_pessoa.py
    - Create model Pessoa
22:48 ~/project $ python manage.py migrate
Operations to perform:
  Apply all migrations: admin, app1, auth, contenttypes, sessions
Running migrations:
  Applying app1.0002_pessoa... OK
22:49 ~/project $
```

Two specific commands are highlighted with red boxes: `python manage.py makemigrations` and `python manage.py migrate`.

# 5. Configuração e utilização da aplicação admin

## 5.1 Em admin.py, registrar classes criadas

The screenshot shows the PythonAnywhere 'Files' interface. At the top, there are two tabs: 'Bash console 32794501 : a22' and 'app1 : /home/a22200022/proj'. The 'Files' tab is highlighted with a red box and a red number '1' below it. The main area shows the directory structure of 'app1'. A red box highlights the file 'admin.py' in the 'Files' section, with a red number '2' to its left. The 'Directories' section contains 'migrations/' with a trash icon. The 'Files' section contains several files: \_\_init\_\_.py, admin.py (highlighted), apps.py, models.py, tests.py, and views.py. To the right of these files is a list of download, copy, and delete icons with their respective dates and sizes: 2024-03-11 00:42 0 bytes, 63 bytes, 140 bytes, 57 bytes, 60 bytes, and 63 bytes. Below the files is a yellow 'Upload a file' button and the text '100MiB maximum size'. At the bottom, there is a copyright notice: 'Copyright © 2011-2024 PythonAnywhere LLP — Terms — Privacy & Cookies'.

pythonanywhere by ANACONDA  
/home/a22200022/project/app1

Dashboard Consoles **Files** Web Tasks Databases

0% full – 2.1 MB of your 512.0 MB quota [More Info](#)  
[Open Bash console here](#)

Directories

Enter new directory name [New directory](#)

migrations/ [Delete](#)

Files

Enter new file name, eg hello.py [New file](#)

2 [admin.py](#) [\\_\\_init\\_\\_.py](#) [apps.py](#) [models.py](#) [tests.py](#) [views.py](#)

[Download](#) 2024-03-11 00:42 0 bytes  
[Download](#) 2024-03-11 00:42 63 bytes  
[Download](#) 2024-03-11 00:42 140 bytes  
[Download](#) 2024-03-11 00:42 57 bytes  
[Download](#) 2024-03-11 00:42 60 bytes  
[Download](#) 2024-03-11 00:42 63 bytes

[Upload a file](#)  
100MiB maximum size

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## 5.2 Em admin.py, registrar a classes criadas (apenas classe Pessoa neste caso)

The screenshot shows a web browser window on PythonAnywhere. The address bar says "admin.py : /home/a22200022". The browser toolbar includes "Share", "Save" (button 2), "Save as...", "Run" (button 3), and a reload icon. A red box highlights the "Save" button. Another red box highlights the "Run" button. A callout bubble points to the "Run" button with the text: "Sempre que fazemos alterações à aplicação, fazer reload (recarregar) a aplicação web, a correr no servidor PythonAnyWhere".

```
1 from django.contrib import admin
2 from django.utils.html import format_html
3 from .models import Pessoa
4
5 admin.site.register(Pessoa)
6
7
8
9
10
11
12
13
14
15
16
17
18
19
```

## 5.3 Abrir o separador Web

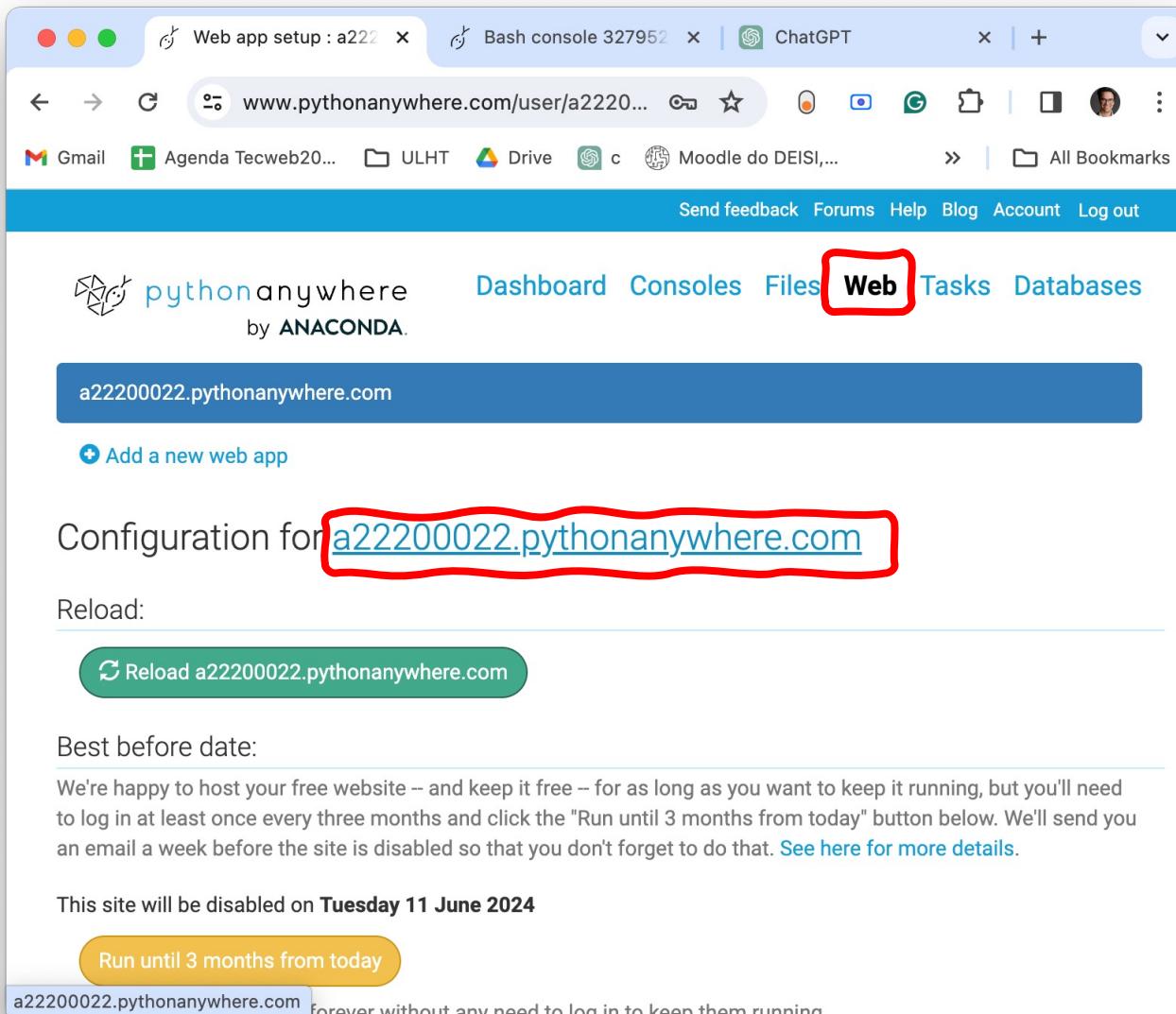
The screenshot shows a web browser window with three tabs: "admin.py : /home/a22" (active), "Bash console 327952", and "ChatGPT". The main content area displays the code for `admin.py`:

```
1 from django.contrib import admin
2 from django.utils.html import format_html
3 from .models import Pessoa
4
5 admin.site.register(Pessoa)
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
```

Below the code are several buttons: "Share", "Save", "Save as...", "Run", and a refresh icon. The URL in the address bar is `www.pythonanywhere.com/user/a22200022/...`. A sidebar menu is open on the right, listing various options: Dashboard, Consoles, Files, **Web**, Tasks, Databases, Send feedback, Forums, Help, Blog, Account, and Log out. The "Web" option is highlighted with a red box.

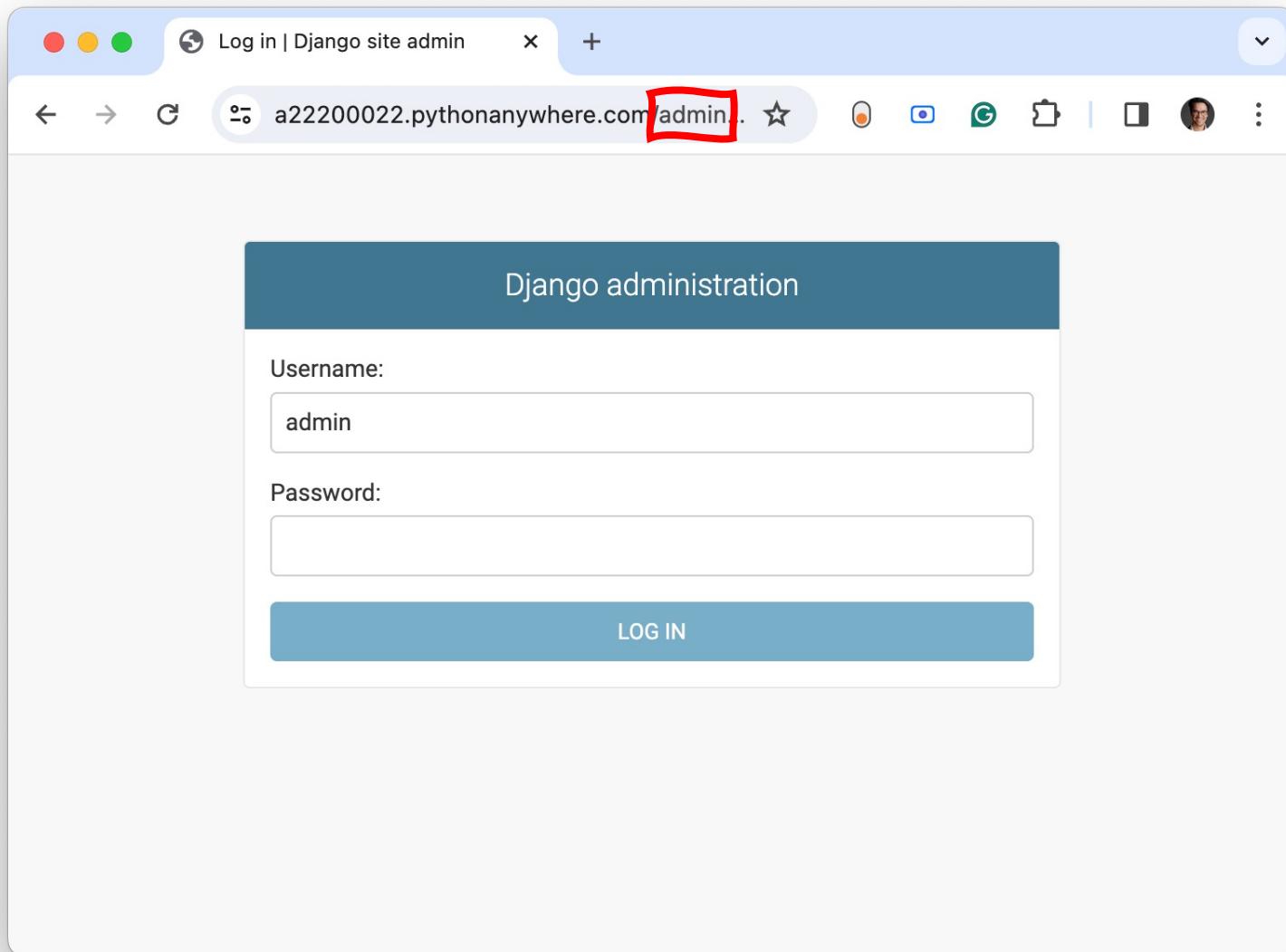
At the bottom of the browser window, the URL `https://www.pythonanywhere.com/user/a22200022/webapps/` is visible in the address bar.

## 5.3 Abrir o separador Web e abrir aplicação web



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

Django



## 5.5 Em admin, abrir a tabela Pessoas

The screenshot shows the Django administration interface. At the top, the title "Django administration" is displayed, along with a welcome message "WELCOME, ADMIN. VIEW SITE / CHANGE PASSWORD / LOG OUT". Below this, the "Site administration" header is visible. The main content area is divided into sections by blue headers. The first section, "APP1", contains a link to "Pessoas", which is highlighted with a red rectangular box. To the right of this link are two buttons: "+ Add" and "Change". The second section, "AUTHENTICATION AND AUTHORIZATION", contains links for "Groups" and "Users", each with their own "+ Add" and "Change" buttons. At the bottom of the page, there are two sections: "Recent actions" and "My actions", both of which state "None available".

## 5.6 Em admin, criar uma nova Pessoa

Django

The screenshot shows a web browser window titled "Select pessoa to change | Dj...". The URL in the address bar is "a22200022.pythonanywhere.com/admin...". The main content is the "Django administration" page, specifically the "Select pessoa to change" section for the "Pessoas" model in "App1". The page displays a button labeled "ADD PESSOA +". Below it, a message states "0 pessoas". The top navigation bar includes links for "WELCOME, ADMIN.", "VIEW SITE / CHANGE PASSWORD / LOG OUT", and a user profile picture.

## 5.6 Em admin, criar uma nova Pessoa

The screenshot shows the Django Admin interface for creating a new person. The browser title is "Add pessoa | Django site adm". The URL in the address bar is "a22200022.pythonanywhere.com/admin/app1/pessoas/add/". The main title is "Django administration" with a welcome message "WELCOME, ADMIN. VIEW SITE / CHANGE PASSWORD / LOG OUT". The breadcrumb navigation shows "Home > App1 > Pessoas > Add pessoa". On the left, there's a sidebar with a search bar and sections for "APP1" (highlighted in blue) and "AUTHENTICATION AND AUTHORIZATION" (highlighted in teal). Under APP1, the "Pessoas" section is selected and highlighted in yellow, with a green "+ Add" button. Under AUTHENTICATION AND AUTHORIZATION, there are "Groups" and "Users" sections, each with a green "+ Add" button. The main content area is titled "Add pessoa". It has two form fields: "Nome:" with the value "Joao Santos" and "Idade:" with the value "20" in an input field with a dropdown arrow. At the bottom, there are three buttons: "Save and add another", "Save and continue editing", and a large "SAVE" button.

## 5.6 Em admin, criar uma nova Pessoa

Django

The screenshot shows the Django administration interface. The top navigation bar displays the title "Select pessoa to change | Dj" and the URL "a22200022.pythonanywhere.com/admin/app1/pe...". The main title "Django administration" is centered above the content. Below it, a welcome message reads "WELCOME, ADMIN. VIEW SITE / CHANGE PASSWORD / LOG OUT". The left sidebar lists "APP1" and "AUTHENTICATION AND AUTHORIZATION" sections, each with "Pessoas" and "Groups" entries, and a "Users" entry with a back arrow icon. A search bar at the top left says "Start typing to filter...". On the right, a success message in a green box states "The pessoa "Joao Santos - 20 anos" was added successfully." Below this, the heading "Select pessoa to change" is followed by an "ADD PESSOA +" button. An "Action:" dropdown menu is set to "-----" and a "Go" button is next to it. Underneath, there are two checkboxes: one for "PESSOA" and another for "Joao Santos - 20 anos". A summary at the bottom indicates "1 pessoa".

# Fim