# BargainBox project environment setup and execution instructions

## Routes:

- •
- /register
- /signin
- /signout
- /my-profile/view
- /my-profile/edit
- /my-profile/delete
- /post/new
- /post/view/{Post ID}
- /post/edit/{Post ID}
- /post/delete/{Post ID}
- /my-posts
- /admin

- -> BargainBox home page
- -> Create a BargainBox account
- -> Sign in to a BargainBox account
- -> Sign out of a BargainBox account
- -> View BargainBox account details
- -> Edit BargainBox account details
- -> Delete BargainBox account
- -> Create a new post
- -> View a post in detail
- -> Edit a post
- -> Delete a post
- -> View posts for the signed in user
- -> Administration page (not accessible to regular users)

# <u>Technologies used</u>:

- Python version 3.8 or above
- Django web framework version 4.2.16
- Pillow imaging library version 10.4.0

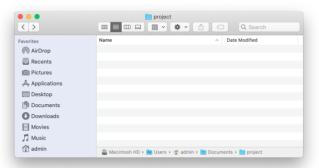
# Table of contents:

- 1. Setting up the project environment
  - a. macOS instructions
  - b. Windows instructions
- 2. Running the project
  - a. macOS instructions
  - b. Windows instructions

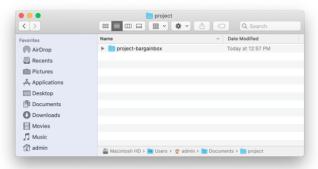
# Setting up the project environment:

#### macOS

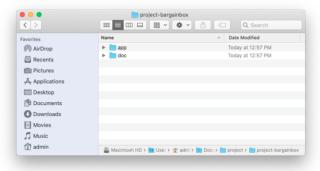
1. Create a new directory anywhere on your system. I will create a new directory called "project".



2. In the empty directory that was created in the previous step, clone the "project-bargainbox" GitHub repository. After doing this, a new "project-bargainbox" directory will be created.



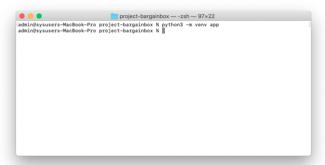
- 3. Navigate into the newly created "project-bargainbox" directory. You will see two sub-directories:
  - a. "app" contains the project's code
  - b. "doc" contains the project's documentation and sprint information



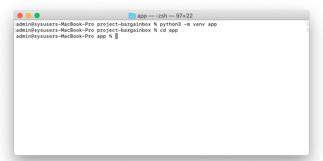
4. It is highly recommended that this project be executed from within a Python virtual environment. Unfortunately, the Python virtual environment files are not included in the GitHub repository as they are platform specific. As such, you need to create a Python virtual environment on your own. To create a Python virtual environment, open the Terminal and navigate to the "project-bargainbox" directory that is shown in the screenshot above.



5. Once your current working directory is set to "project-bargainbox", run the following command: "python3 -m venv app". This will create a Python virtual environment in the "app" sub-directory.



6. Navigate into the "app" directory.



7. We can now activate the newly created Python virtual environment. To do this, run the following command: "source bin/activate".



8. Next, we need to download and install the necessary dependencies in the Python virtual environment. To do this, run the following command: "pip3 install -r requirements.txt". Please note, this step only needs to be performed when running in a newly created Python virtual environment.

```
app — -zsh — 97×22

3446d73314accd06e4fftb01d/pillow-10.4.0-cp38-cp38-macox,10.10.x86_64.whl

Collecting sqlparses>=0.3.1 (from djangorm-2.16->-r requirements.txt (line 1))

Using cached https://files.pythonhosted.org/packages/3d/3s/b2860373aa8de1e626b2bdfddddf4355f066
5b276b176de5*re78faf6fs.galparse=6.5.1-py3-none-any.whl

Collecting backports.zoneinfo; python_version < "3.7" (from djangorm-2.16->-r requirements.txt (line 1))

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Using cached https://files.pythonhosted.org/packages/4a/da/ca084ecadcbf8bddcc06feb0e355530147

f8577420b4d408c7cac797a7/backports.zoneinfo-0.2.1-cp38-cp38-macoxx.10.14.x86_64.whl

Collecting agairef4.>3-3.6. (from djangor=2.16->r requirements.txt (line 1))

Using cached https://files.pythonhosted.org/packages/39/cs/939as757bc2012e6c26d9b5b8ad26365152

4b5bdacf567642e85282813asgairef-3.8.1-py3-none-any.whl

Collecting typing-extensions>=4; python_version < "3.11" (from asgiref4.>-3.6.0-ydjango=4.2.16->-r requirements.txt (line 1))

Using cached https://files.pythonhosted.org/packages/26/9f/ad63fc248c5379346386f8666cde2e22e9

C96e2123cd2b6ffdfff30f30fytyping_extensions-4.12.cpy3-none-any.whl

Installing collected packages: sqlparse, backports.zoneinfo-0.2.1 django-4.2.16 pillow-10.4.08 sqlpars

e-0.5.1 typing-extensions-4.12.

Vau should consider upgrading vis the 'pip install --upgrade pip' command.

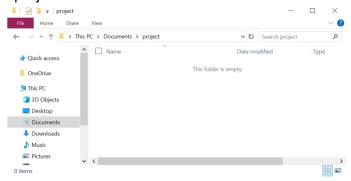
(app) admin@sysusers-MacBook-Pro app N
```

9. The project environment has been successfully setup. Now we can close the Python virtual environment. To do this, run the following command: "deactivate". This concludes the project environment setup.

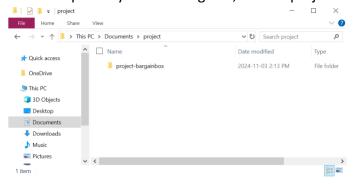


#### Windows

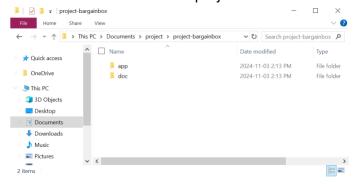
1. Create a new directory anywhere on your system. I will create a new directory called "project".



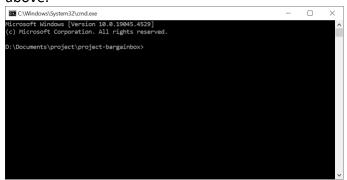
2. In the empty directory that was created in the previous step, clone the "project-bargainbox" GitHub repository. After doing this, a new "project-bargainbox" directory will be created.



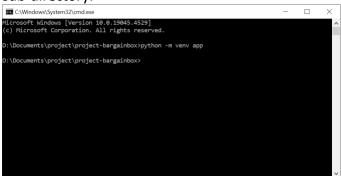
- 3. Navigate into the newly created "project-bargainbox" directory. You will see two sub-directories:
  - a. "app" contains the project's code
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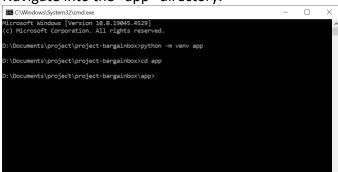
4. It is highly recommended that this project be executed from within a Python virtual environment. Unfortunately, the Python virtual environment files are not included in the GitHub repository as they are platform specific. As such, you need to create a Python virtual environment on your own. To create a Python virtual environment, open the Command Prompt and navigate to the "project-bargainbox" directory that is shown in the screenshot above.



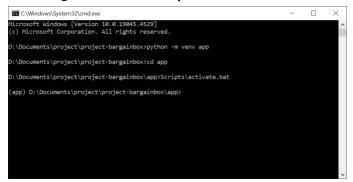
5. Once your current working directory is set to "project-bargainbox", run the following command: "python -m venv app". This will create a Python virtual environment in the "app" sub-directory.



6. Navigate into the "app" directory.



7. We can now activate the newly created Python virtual environment. To do this, run the following command: "Scripts\activate.bat".



8. Next, we need to download and install the necessary dependencies in the Python virtual environment. To do this, run the following command: "pip install -r requirements.txt". Please note, this step only needs to be performed when running in a newly created Python virtual environment.

```
Downloading pillow-10.4.0-cp313-cp313-win_amd64.whl.metadata (9.3 kB)

Collecting asgiref(4,>=3.6.0 (from django=4.2.16->r requirements.txt (line 1))

Downloading asgiref=3.8.1-py3-none-any.whl metadata (9.3 kB)

Collecting sqlparse>-0.3.1 (from django=4.2.16->r requirements.txt (line 1))

Downloading sqlparse=0.5.1-py3-none-any.whl metadata (3.4 kB)

Collecting trdata (from django=4.2.16->r requirements.txt (line 1))

Downloading trdata-2024.2-py2.py3-none-any.whl metadata (1.4 kB)

Downloading bjango-4.2.16-py3-none-any.whl (8.0 WB)

Downloading pillow-10.4.0-cp313-cp313-win_amd64.whl (2.6 MB)

Downloading asgiref=3.8.1-py3-none-any.whl (8.0 WB)

Downloading asgiref=3.8.1-py3-none-any.whl (44 kB)

Downloading asgiref=3.8.1-py3-none-any.whl (44 kB)

Downloading sqlparse-0.5.1-py3-none-any.whl (44 kB)

Downloading sqlparse-0.5.1-py3-none-any.whl (44 kB)

Installing collected packages: trdata, sqlparse, pillow, asgiref, django

Successfully installed asgiref-3.8.1 django-4.2.16 pillow-10.4.0 sqlparse-0.5.1 trdata-2024.2

[notice] A new release of pip is available: 24.2 -> 24.3.1

[notice] To update, run: python.exe -m pip install --upgrade pip
```

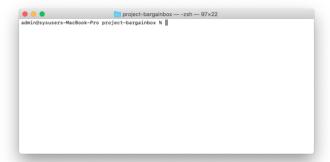
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```
Collecting asgiref-4,>=3.6.0 (from django==4.2.16->-r requirements.txt (line 1))
Downloading asgiref-3.8.1-py3-none-any.whl.metadata (9.3 kB)
Collecting asgiref-3.8.1-py3-none-any.whl.metadata (9.3 kB)
Collecting asplanses=0.3.1 (from django==4.2.16->-r requirements.txt (line 1))
Downloading sqlpanse=0.5.1-py3-none-any.whl.metadata (3.9 kB)
Collecting tradata (from django==4.2.16->-r requirements.txt (line 1))
Downloading sqlata-2824.2-py2.py3-none-any.whl.metadata (1.4 kB)
Downloading Django-4.2.16-py3-none-any.whl (8.0 kB)
Downloading Django-4.2.16-py3-none-any.whl (8.0 kB)
Downloading pillow-10.4.0-cp313-cp313-win_amd64.whl (2.6 kB)
Downloading sqlpanse=0.5.1-py3-none-any.whl (23 kB)
Downloading sqlpanse=0.5.1-py3-none-any.whl (44 kB)
Downloading sqlpanse=0.5.1-py3-none-any.whl (44 kB)
Downloading sqlpanse=0.5.1-py3-none-any.whl (346 kB)
Installing collected packages: tradata, sqlpanse, pillow, asgiref, django
Successfully installed asgiref-3.8.1 django-4.2.16 pillow-10.4.0 sqlpanse=0.5.1 trdata-2024.2
[notice] A new release of pip is available: 24.2 -> 24.3.1
[notice] To update, run: python.exe-mpipinstall --upgrade pip
(app) D:\Documents\project\project\project-bargainbox\app>
```

# Running the project:

### macOS

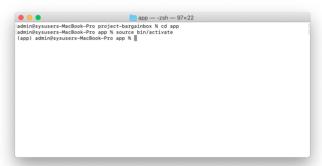
1. In the Terminal, set the current working directory to the "project-bargainbox" folder that was created during the environment setup process described above.



2. Navigate into the "app" sub-directory.



3. Activate the Python virtual environment. To do this, run the following command: "source bin/activate".



4. Navigate into the "bargain\_box" sub-directory.

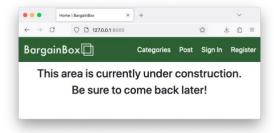


5. Run the server. To do this, run the following command: "python3 manage.py runserver".

```
bargain_box — Python · Python manage.py runserver — 97×22

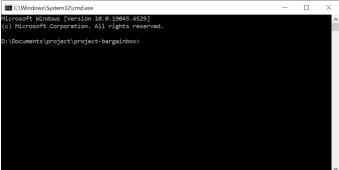
| admin@sysusers—Mac8ook-Pro project-bargainbox % cd app | | |
| admin@sysusers—Mac8ook-Pro app % source bin/activate | | |
| (app) admin@sysusers—Mac8ook-Pro app % cd bargain_box % python3 manage.py runserver | |
| (app) admin@sysusers—Mac8ook-Pro bargain_box % python3 manage.py runserver | |
| (app) admin@sysusers—Mac8ook-Pro bargain_box % python3 manage.py runserver | |
| (app) admin@sysusers—Mac8ook-Pro bargain_box | |
| (app) admin@sysusers—Mac8ook-Pro paragin_box | |
| (app) admin@sysusers—Mac8ook-P
```

6. To access the application in a web browser, navigate to the URL that is provided by the previous step's command output. You will now be able to access our application.

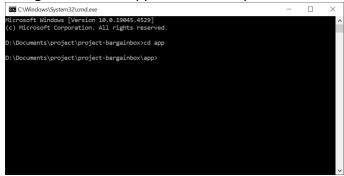


## Windows

1. In the Command Prompt, set the current working directory to the "project-bargainbox" folder that was created during the environment setup process described above.



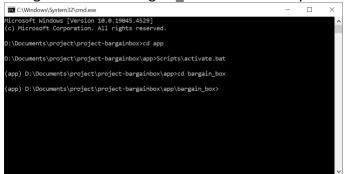
2. Navigate into the "app" sub-directory.



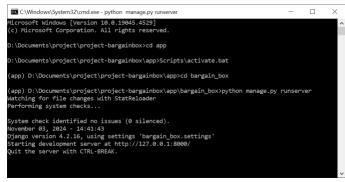
3. Activate the Python virtual environment. To do this, run the following command:



4. Navigate into the "bargain\_box" sub-directory.



5. Run the server. To do this, run the following command: "python manage.py runserver".



6. To access the application in a web browser, navigate to the URL that is provided by the previous step's command output. You will now be able to access our application.

