BargainBox project environment setup and execution instructions

Routes:

- / -> BargainBox home page
- /register -> Create a BargainBox account
- /signin -> Sign in to a BargainBox account
- /signout -> Sign out of a BargainBox account
- /password-reset -> Password rest request page
- /password-reset/email-sent -> Password rest email sent success page
- /password-reset-confirm/{uidb64}/{token} -> Enter and confirm new password page
- /password-reset-complete -> Password rest success page
- /profile/view/{User ID} -> View any seller's BargainBox account details
- /profile/view -> View the signed in user's BargainBox account details
- /profile/edit -> Edit the signed in user's BargainBox account details
- /profile/delete -> Delete the signed in user's BargainBox account
- /post/new -> Create a new post
- /post/view/{Post ID} -> View a post in detail
- /post/edit/{Post ID} -> Edit a post
- /post/delete/{Post ID} -> Delete a post
- /post/bookmarks -> View bookmarked posts for the signed in user
- /post/{Post ID}/add-bookmark -> Bookmark a post
- /post/{Post ID}/remove-bookmark -> Remove a bookmarked post
- /my-posts -> View posts for the signed in user
- /about/our_mission -> Learn about the mission of BargainBox
- /about/meet_the_team -> Learn about those who created BargainBox
- /about/how_we_work -> Learn about how BargainBox works
- /admin -> Administration page (not accessible to regular users)

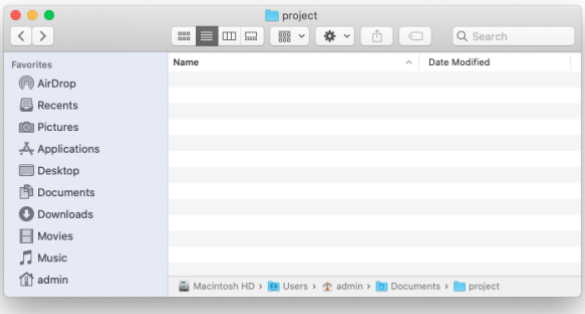
Technologies used:

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

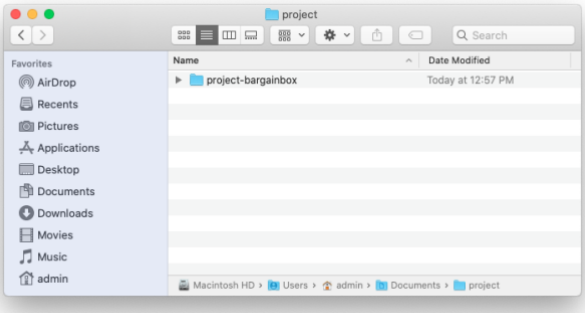
Table of contents:

Setting up the project environment:

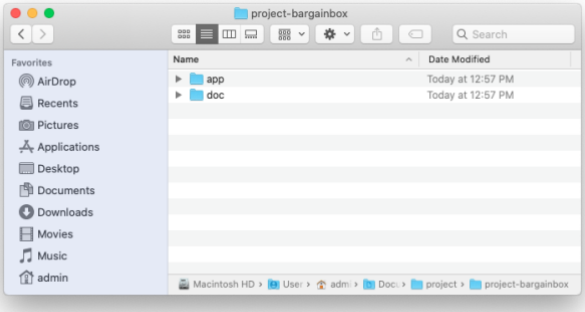
- **macOS**
  1. Create a new directory anywhere on your system. I will create a new directory called "project".



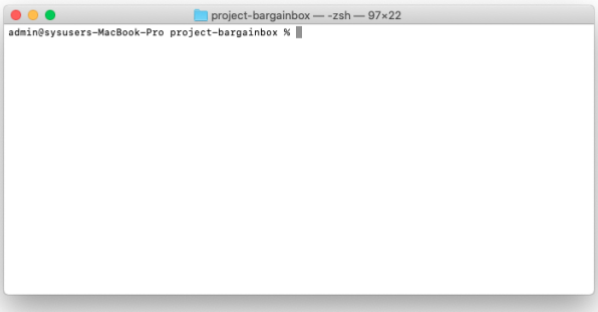
  2. In the empty directory that was created in the previous step, clone the "project-bargainbox" GitHub repository. After doing this, a new "project-bargainbox" directory will be created.



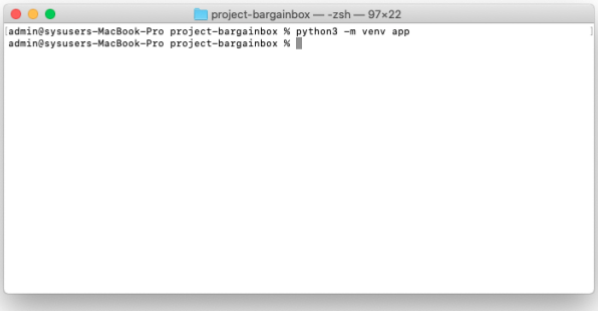
  3. Navigate into the newly created "project-bargainbox" directory. You will see two sub-directories:
     a. "**app**" – contains the project's code
     b. "**doc**" – contains the project's documentation and sprint information



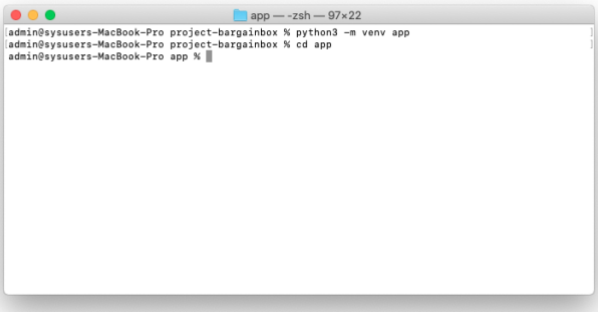
4. It is highly recommended that this project be executed from within a Python virtual environment. Unfortunately, the Python virtual environment files are not included in the GitHub repository as they are platform specific. As such, you need to create a Python virtual environment on your own. To create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



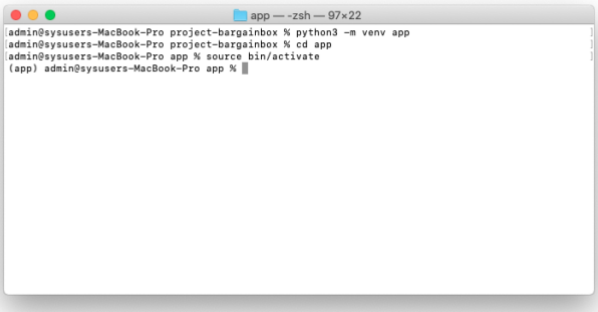
5. Once your current working directory is set to “project-bargainbox”, run the following command: “**python3 -m venv app**”. This will create a Python virtual environment in the “app” sub-directory.



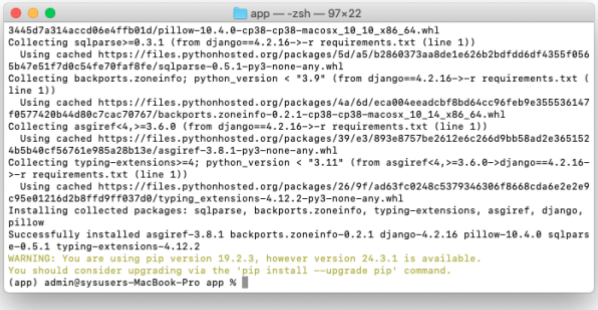
6. Navigate into the “app” directory.



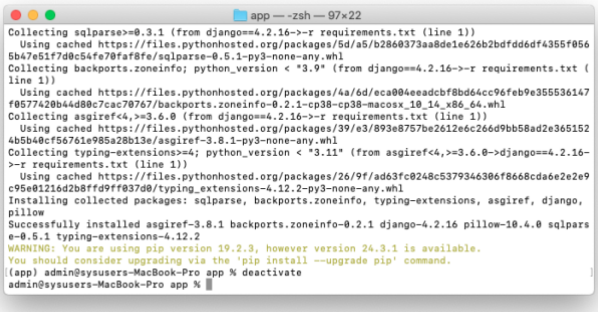
7. We can now activate the newly created Python virtual environment. To do this, run the following command: "**source bin/activate**".



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.



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.



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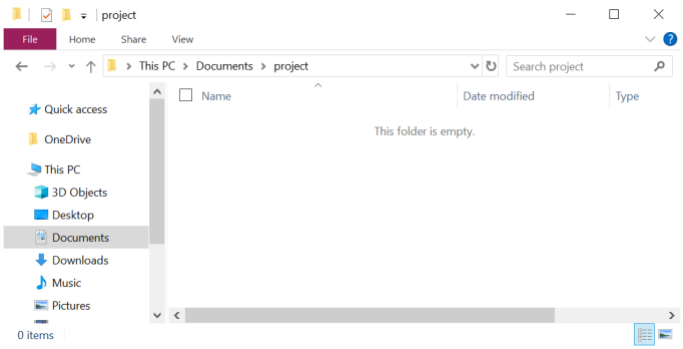

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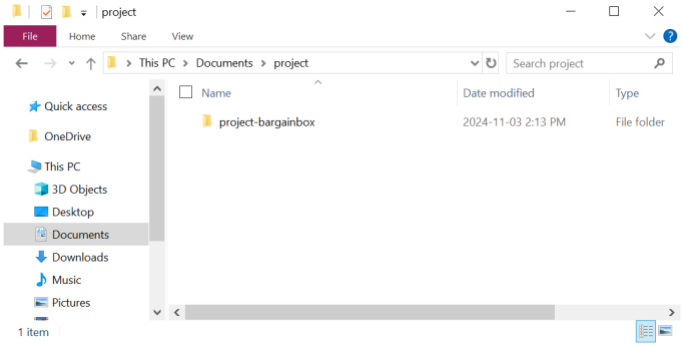

  3. Navigate into the newly created “project-bargainbox” directory. You will see two sub-directories:
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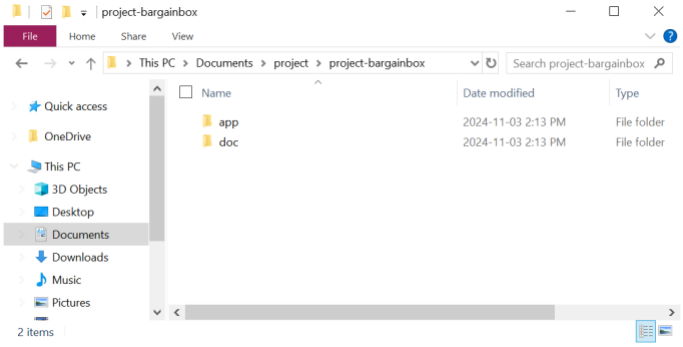

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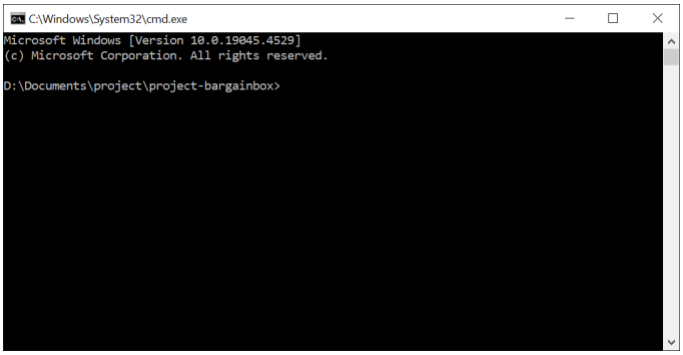
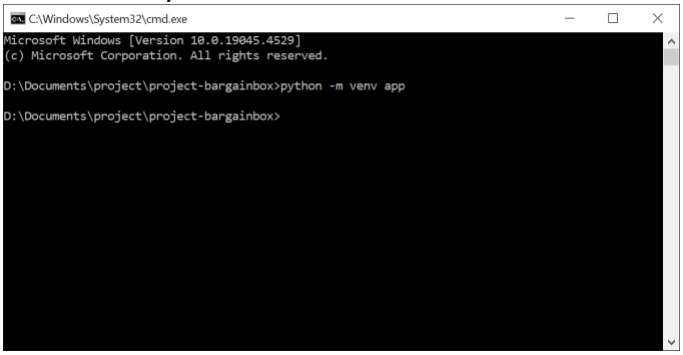


5. Once your current working directory is set to “project-bargainbox”, run the following command: “**python -m venv app**”. This will create a Python virtual environment in the “app” sub-directory.



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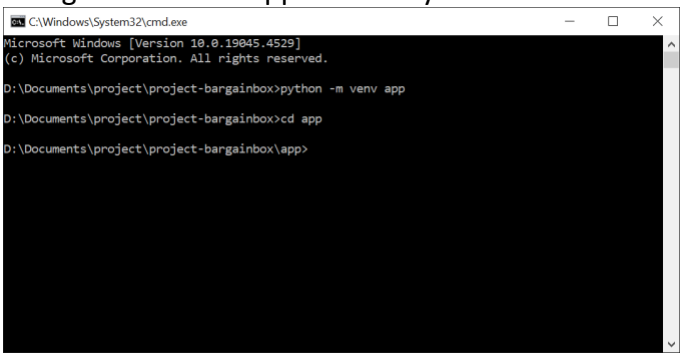
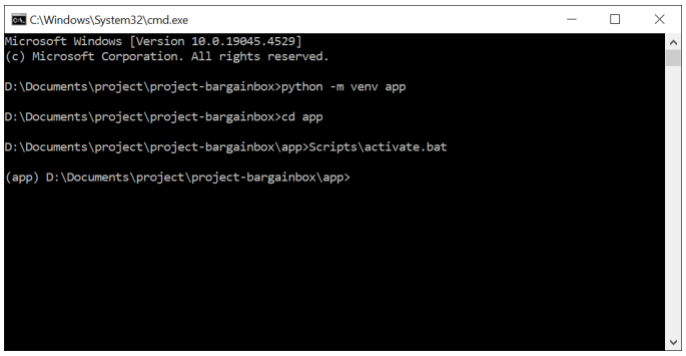


7. We can now activate the newly created Python virtual environment. To do this, run the following command: "**Scripts\activate.bat**".



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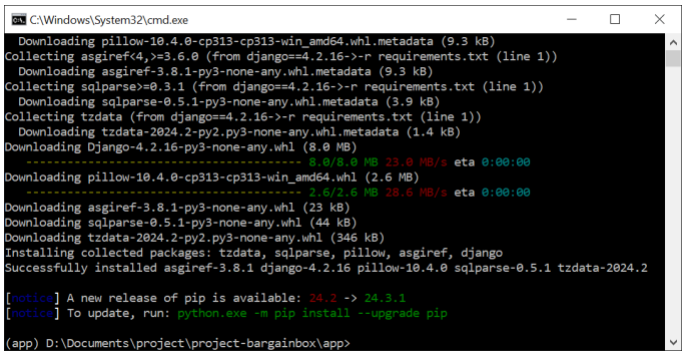

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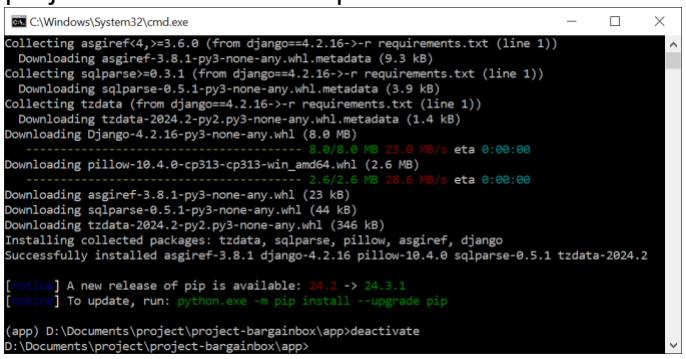
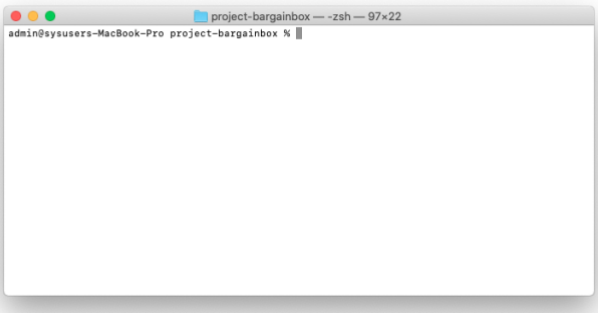
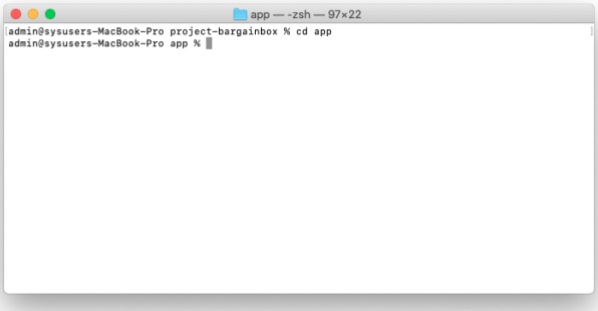


Running the project:

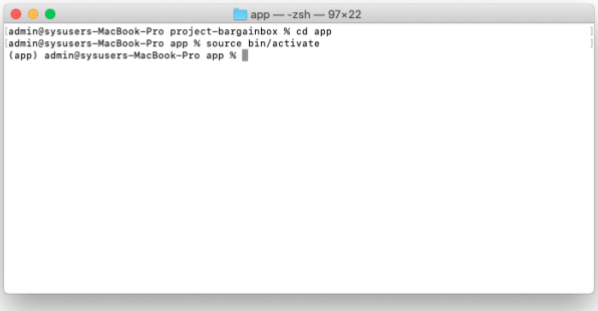
- **macOS**
  1. In the Terminal, set the current working directory to the “project-bargainbox” folder that was created during the environment setup process described above.



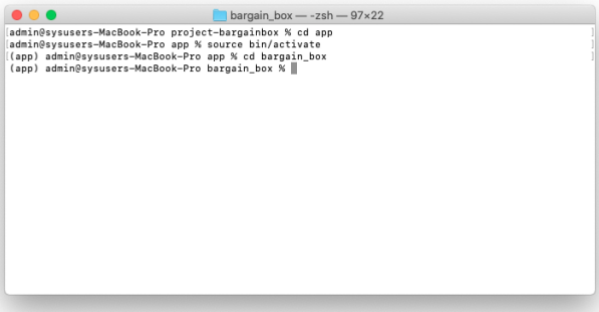
  2. Navigate into the “app” sub-directory.



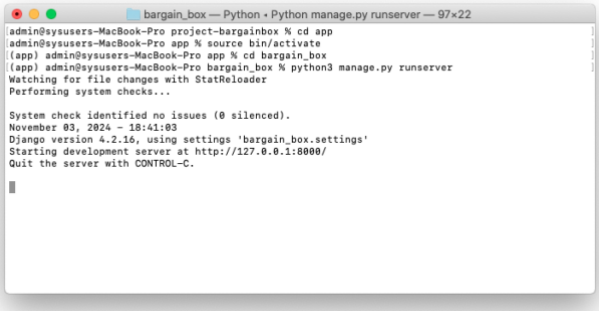
  3. Activate the Python virtual environment. To do this, run the following command: “**source bin/activate**”.



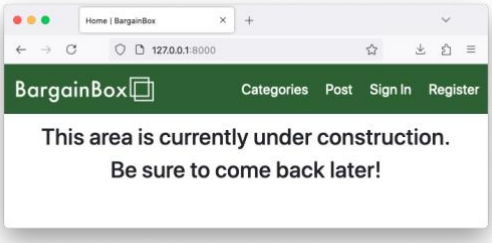
4. Navigate into the “bargain_box” sub-directory.



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



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.



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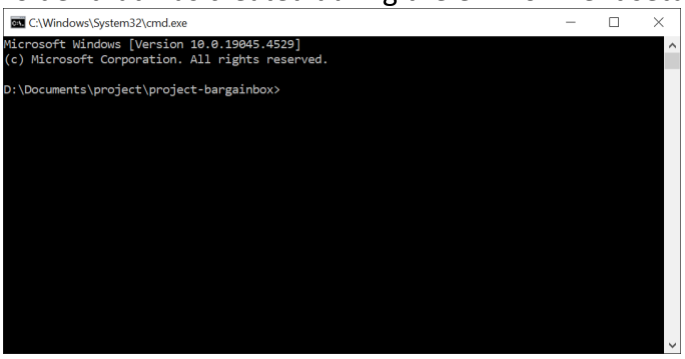

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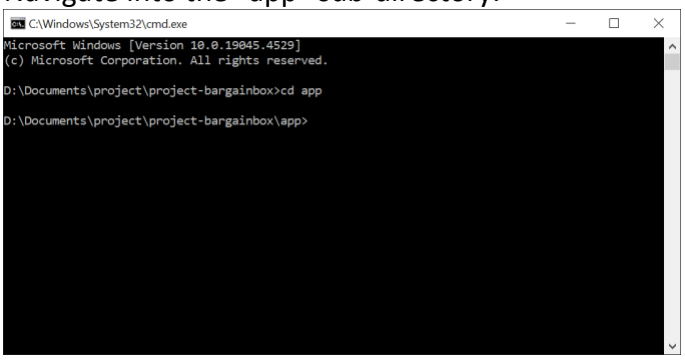

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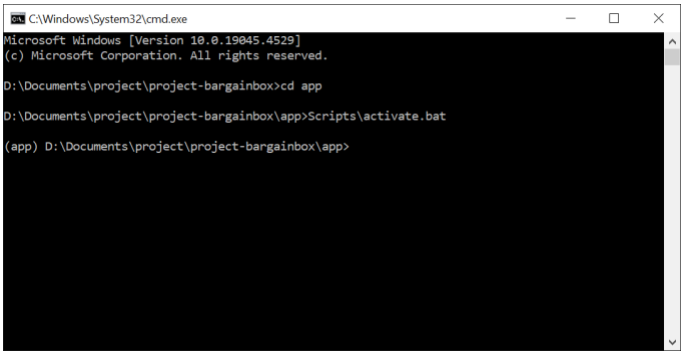

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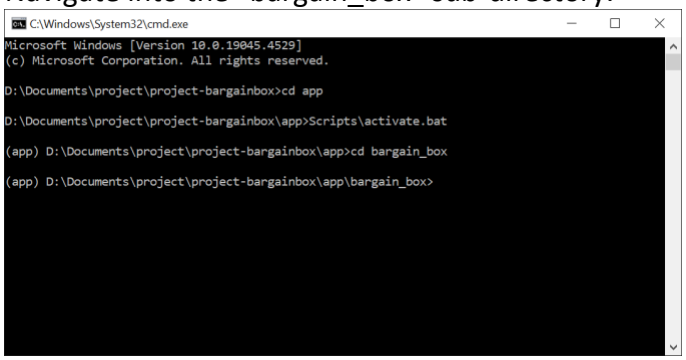

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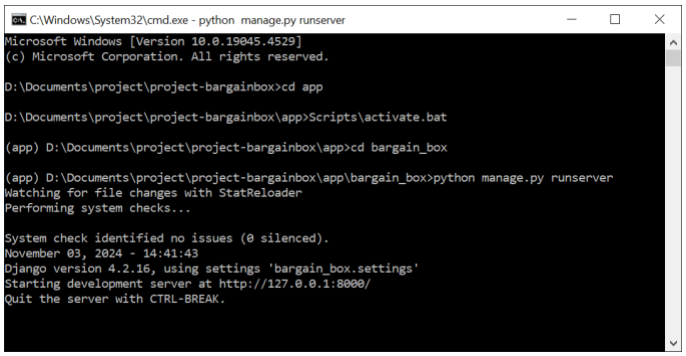

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