

College of Engineering, Construction and Living Sciences Bachelor of Information Technology

IN608: Intermediate Application Development Concepts Level 6, Credits 15

Practical 10 Django 4: Template Inheritance, Static Files & CDNs

Due Date: 31/08/2020 at 5pm

In this practical, you will complete a series of tasks covering today's lecture. This practical is worth 1% of the final mark for the IN608: Intermediate Application Development Concepts course.

Before you start, in your practicals repository, create a new branch called 10-practical.

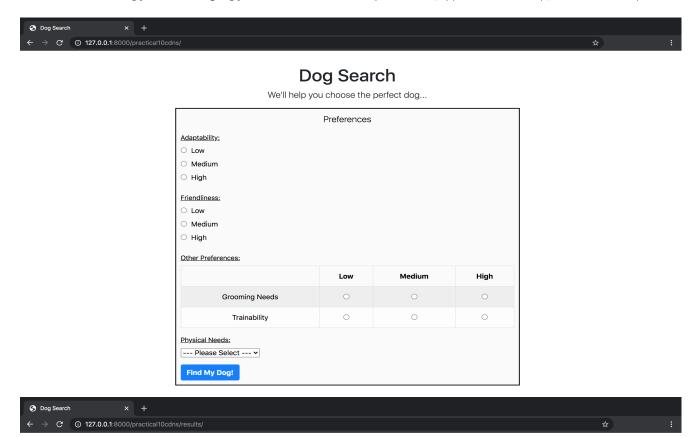
Task

Create a Django project called dog. cd to dog, create a virtual environment & install Django. Create an app called practical10cdns. Please ensure you configure your app in dog/settings.py & dog/urls.py. In the practical10cdns directory, copy & paste practical09dogsearch/models.py, practical09dogsearch/views.py, practical09dogsearch/urls.py & templates/practical09dogsearch from the last practical. Please ensure you change all practical09dogsearch references to practical10cdns. In practical10cdns, create a directory called static & a sub-directory called practical10cdns. static/practical10cdns directory is where all your static files, i.e., CSS, JavaScript, images, etc are stored.

In practical10cdns/models.py, add a new field called image. image is an ImageField type. Please ensure you apply migrations by running the appropriate commands. In fixtures, update dogs.json to include an image key with an image value, i.e., afghan-hound.jpg. Images of dogs have been provided to you in the 10-django-4-template-inheritance-static-files-cdns/img directory. Copy & paste the img directory into static/practical10cdns. In order to use the ImageField, the Pillow Python module must be installed. Run the command pipenv install Pillow to install the Pillow Python module. Also, MEDIA_URL = '/img/' must be declared in settings.py. This is the URL used for managing stored files, i.e., images.

In templates/practical10cdns, create an HTML file called base.html. This is the file which index.html & results.html will extend from. Include the BootstrapCDN link tag & three script tags. Style your index.html & results.html as you wish using Bootstrap.

Run the command python manage.py runserver then navigate to http://127.0.0.1:8000/practical10cdns/



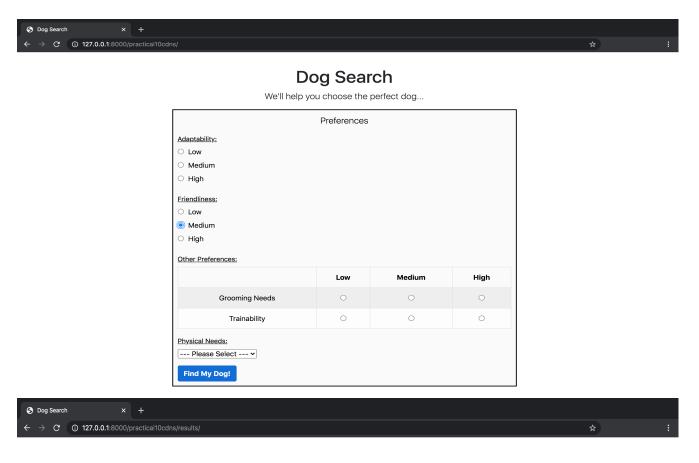
Dog Search

Click on the image for more information.

2 dogs matched your search.

Breed	Adaptability	Friendliness	Grooming Needs	Trainability	Physical Needs
Afghand Hound	High	High	Low	Medium	High
American Pugabull	Medium	High	Medium	Medium	High

Click here to try another match.

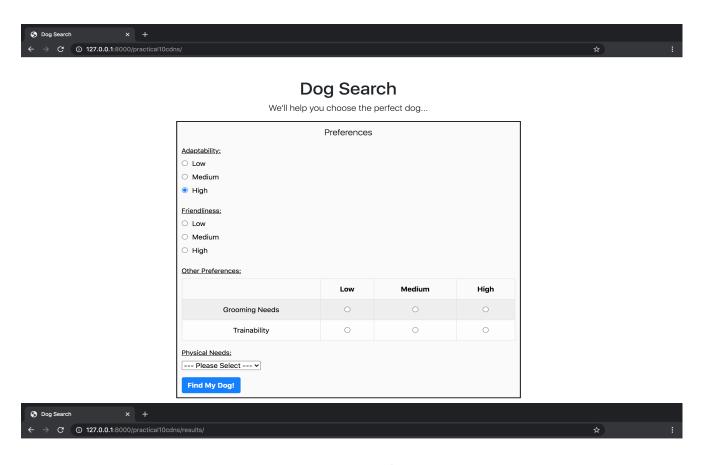


Dog Search

No dogs available.

Click here to try another match.

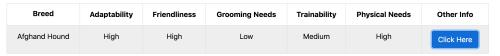
In results.html, for each Dog object in the QuerySet, add a button input to row of Dog data. When a button input is clicked, a modal should display the Dog object's image, height, weight & life_span.



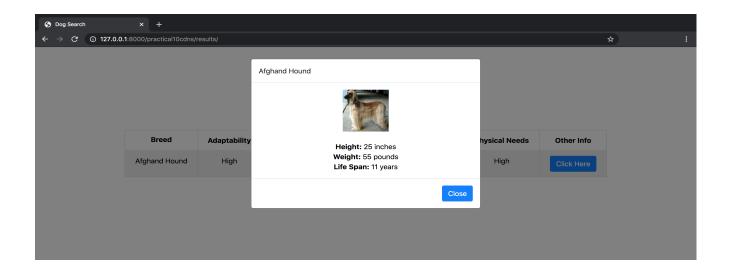
Dog Search

Click on the image for more information.

1 dog matched your search.



Click here to try another match.



 $\textbf{Deployment link:} \ \text{https://int-app-dev-practical-} 10. herokuapp.com/practical10cdns/$

Resources

- Pillow
- Bootstrap