Workshop: Petstagram

This document contains the fifth and final part of the Petstagram Workshop. First, we will add a functionality to send each newly registered user a **greeting email**. Then, we will add **pagination on the profile details page**. Next, we will **test the app**. And finally, we will **deploy using Docker and Amazon**.

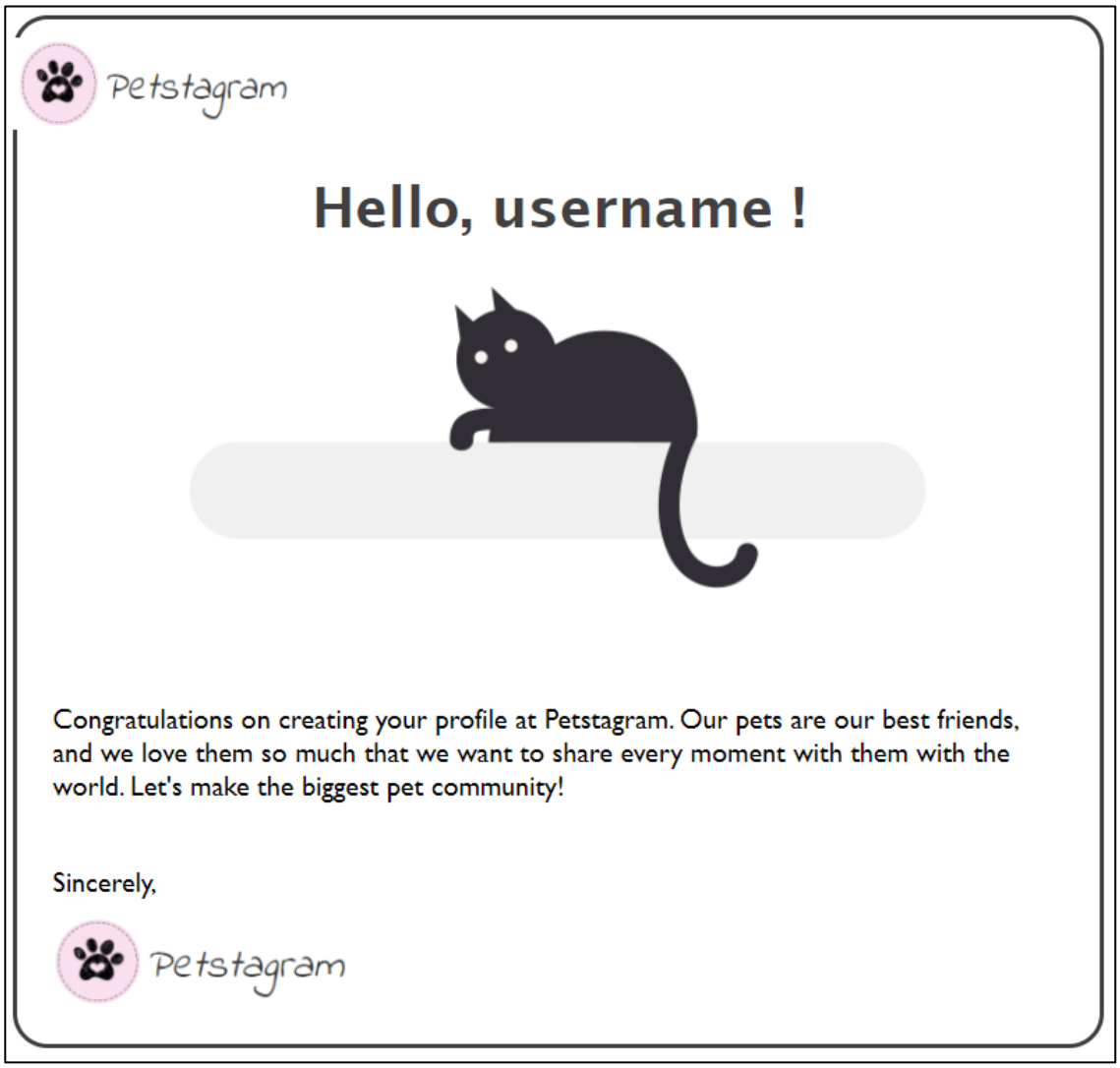
The full project description can be found in the **Workshop Description Document**.

You can directly dive into the app here: https://softuni-petstagram.azurewebsites.net/

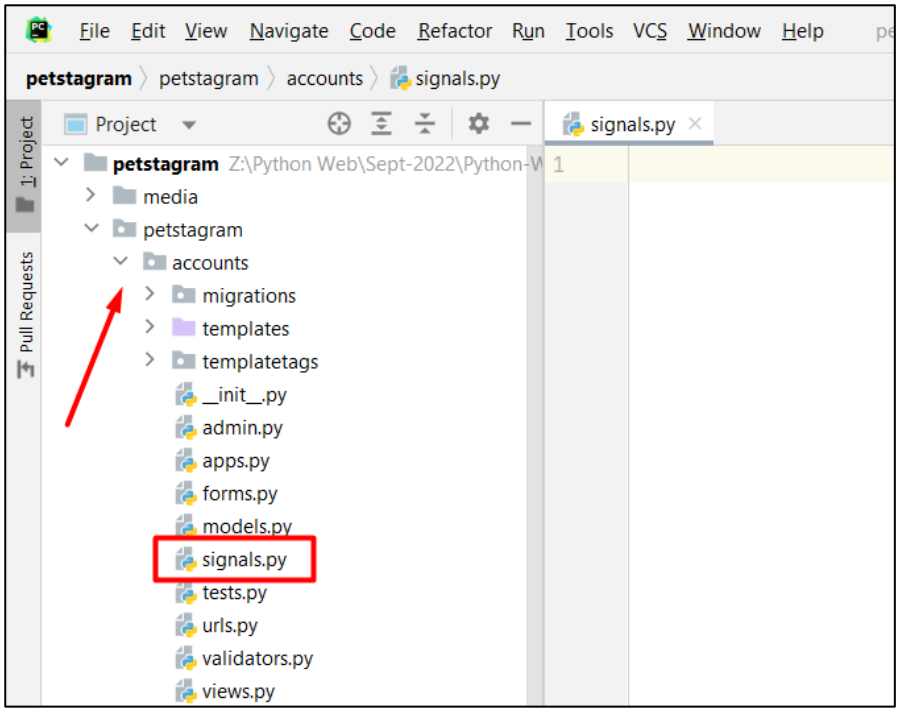
1. Workshop - Part 5.1

Send "Registration greetings" Email

When **new user is registered** on the site, we want them to receive an **automatic greetings email**. We have the **template in this workshop resources**. It is an email template and we should **only change the username** (of the receiver) on it:



To implement the functionality we can **use a signal**. Let us add a **`signals.py`** file in our **`accounts`** app:



We want to **invoke the signal just after the profile is saved**. The signal checks if the **user is created**, and if so - **creates the email with the given template and sends it to them**:

```
from django.core.mail import send_mail
from django.db.models.signals import post_save
from django.dispatch import receiver
from django.template.loader import render_to_string
from django.utils.html import strip_tags

from petstagram import settings
from petstagram.accounts.models import PetstagramUser


@receiver(signal=post_save, sender=PetstagramUser)
def send_greeting_email(sender, instance, created, **kwargs):
    if created:
        subject = "Registration greetings"
        html_message = render_to_string('email-greeting.html', {'profile': instance})
        plain_message = strip_tags(html_message)
        to = instance.email
        send_mail(
            subject=subject,
            message=plain_message,
            from_email=settings.EMAIL_HOST_USER,
            recipient_list=[to], html_message=html_message
        )
```

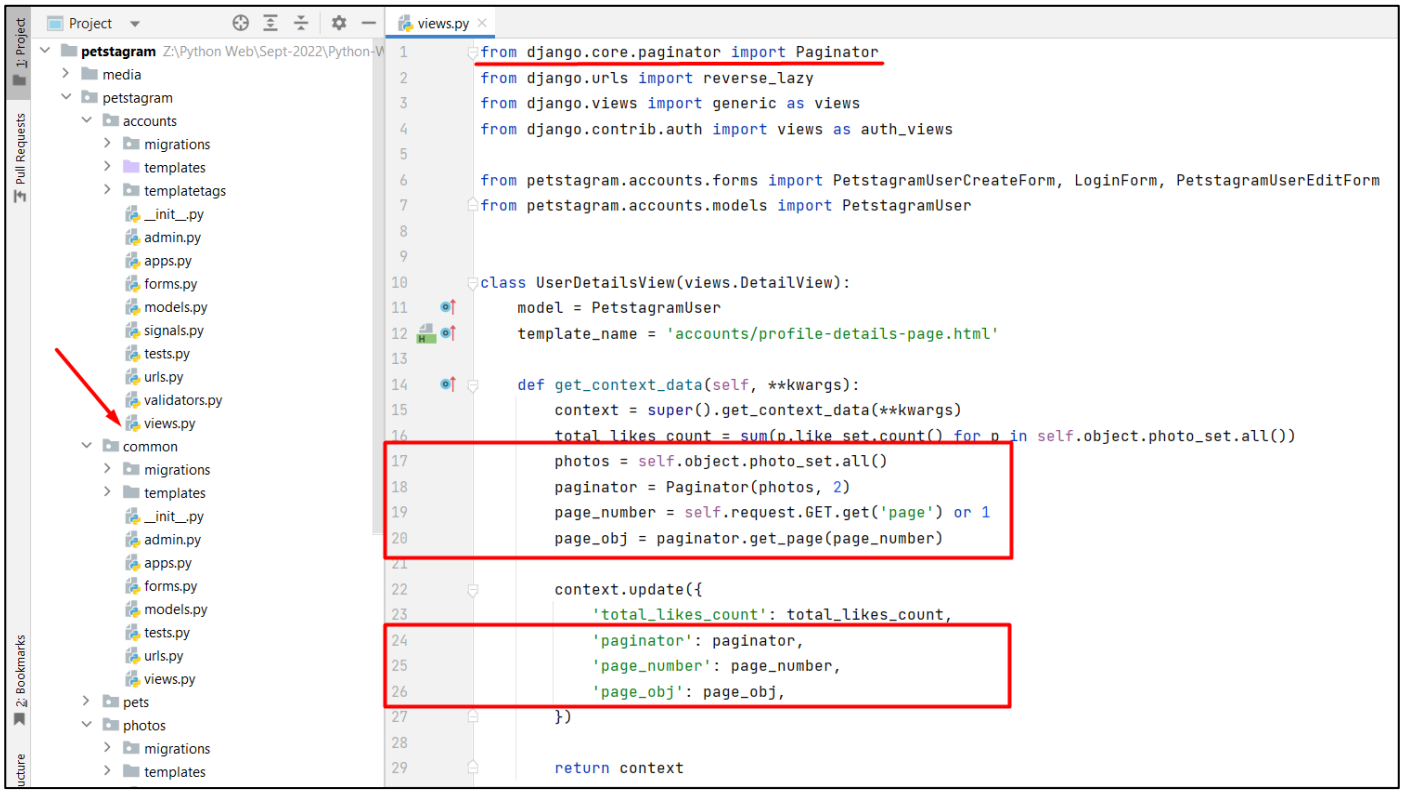
In the **`setting.py`** file, we should add the **email credentials**. In this workshop, we will be using **Gmail account**. To use it we need to set that **the email uses TLS**, the host is "**smtp.gmail.com**", the Gmail port SMTP port is **587**, the email host user is **our email address**, the password is an **automatically generated password by Gmail** when we add

a "third-party apps with account access":

```python
# https://docs.djangoproject.com/en/4.1/ref/settings/#default-auto-field

DEFAULT_AUTO_FIELD = 'django.db.models.BigAutoField'

MEDIA_URL = 'media/'
MEDIA_ROOT = os.path.join(BASE_DIR, 'media')

AUTH_USER_MODEL = 'accounts.PetstagramUser'

EMAIL_USE_TLS = True
EMAIL_HOST = 'smtp.gmail.com'
EMAIL_HOST_USER = 'no.reply.petstagram@gmail.com'
EMAIL_HOST_PASSWORD = "gqhidvelyurzdxcfvghbn"
EMAIL_PORT = 587
```

Add Pagination

The next thing we want to add to our app is a pagination on the profile details page. We want to **show only 2 images per page**. Open the **`account/views.py`** file and we can **add the pagination** to our context:



Now, let us open the **profile-page-page.html** template and **add the pagination code**:

```
...
<!-- Start Last Uploaded Photos Section -->
<div class="pet-photos">

    <!-- Link to Last Uploaded Pet Photo -->
    {% for photo in page_obj.object_list %}
        <a href="{% url 'photo-details' photo.id %}">
            <!-- Pet Photo -->
            <img src="{{ photo.photo.url }}"
                 alt="pet img">
        </a>
    {% endfor %}

    <div class="pagination">
            <span class="step-links">
                {% if page_obj.has_previous %}
                    <a href="?page=1">&laquo; first</a>
                    <a href="?page={{ page_obj.previous_page_number }}">previous</a>
                {% endif %}

                <span class="current">
                    Page {{ page_obj.number }} of {{ page_obj.paginator.num_pages
}}.
                </span>

                {% if page_obj.has_next %}
                    <a href="?page={{ page_obj.next_page_number }}">next</a>
                    <a href="?page={{ page_obj.paginator.num_pages }}">last
&raquo;</a>
                {% endif %}
            </span>
    </div>
</div>
```

2. Workshop - Part 5.2

Testing

Test the forms, models and views in the **petstagram/photos** app (but not any libraries or functionality provided as part of Python or Django).

3. Workshop - Part 5.3

Deploy

Deploy the project using AWS and Docker.