Workshop: Petstagram

This document contains the third part of the Petstagram Workshop. Today, we will **create the pet forms** for our model for the project and we will implement them in our templates. After that, we will **add the image functionality** in the photo model, we will **create the form**, and inject it into the templates. Finally, we will **create a comment form** to add comments and a **search form** to search images by a name of a tagged pet.

Note: we will NOT work with the profile/ user form in the Python Web Basics Course.

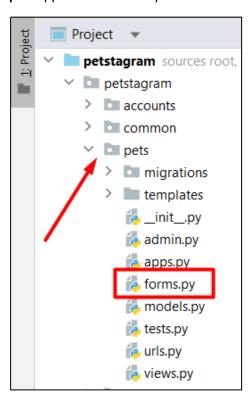
The full project description of the project can be found in the Workshop Description Document.

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

1. Workshop - Part 3.1

Creating a Pet Form

In a Django project, there is **NOT** a forms file in the prebuilt structure. We need to add a new **forms.py** file inside the **pet** application directory:



In **forms.py** we can implement the pet form. Because the pet already has a model in our app, we do **NOT need to create the form field by field** - Django can do it for us with the **ModelForm class**. Let us open the **forms.py** file, **import**



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the Pet model and create a simple Pet form from the Pet model:

```
1: Project
           ⊕ Ξ ÷
                               forms.py
      petstagram sources root, 🔣
                                       from django import forms
      petstagram
ш
        accounts
                                3
                                       from petstagram.pets.models import Pet
Requests
        > common
                                4
        pets
           migrations
Pul
                                       class PetForm(forms.ModelForm):
                                6
           templates
                                           class Meta:
             > pets
                                                model = Pet
             [ __init__.py
                                                fields = ['name', 'date_of_birth', 'personal_photo']
             🛵 admin.py
             apps.py
             揭 forms.py
             揭 models.py
             🐌 tests.py
             💤 urls.py
             📥 views.py
```

Next, let us **create the form functionality** in the **pets/view.py**. First, we will import the **PetForm**. Next, we will **create a form** that should be filled with information (**request.POST** is a dictionary-like object that lets you access submitted data) **or should be blank**. Next, we will **check if the form is valid** and if so - we will **save the information** in the database. When the information is saved, we want to **redirect the user to the profile details page** (for now we will set a random number for the pk). Finally, if the **form is NOT valid** (it is blank, or the validation fails) we want to **add it to the context to be shown in the template**:

```
⊕ 호 🛨 🌣 –

    views.py >

1: Pro
    petstagram sources root, ZN
                                     from django.shortcuts import render, redirect # new
     > accounts
                                     from petstagram.pets.forms import PetForm # new
       > common
                                     from petstagram.pets.models import Pet

✓ □ pets

         > migrations
P
         templates
                                     def add_pet(request):
            > ets
                                         form = PetForm(request.POST or None)
                                                                               # new
            🛵 __init__.py
                                         if form.is_valid():
            admin.pv
            apps.py
                                             form.save()
            forms.py
                                             return redirect('profile-details', pk=1)
            models.py
            🐌 tests.py
                                         context = {"form": form}
            🐌 urls.py
                                         return render(request, template_name='pets/pet-add-page.html', context=context)
            > 🖿 photos
```

Now, it is time to add the form to the pet-add-page.html template. First, we will delete the html form and we will inject the Django form from the context - we want to show the form on separate lines, so will use the shortcut method "as_p" to show each input field on a new line (new paragraph). Next, we will set a post method to the form, and



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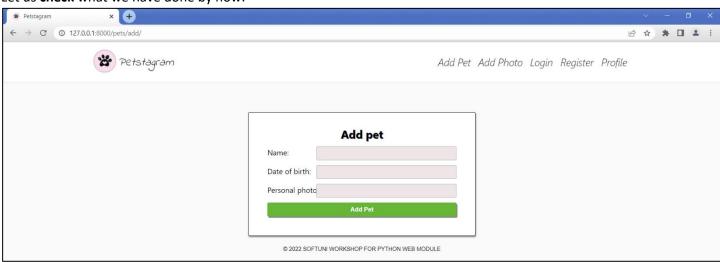




finally - we will add the CSRF token:

```
a pet-add-page.html × −
       {% extends 'base.html' %}
1
2
3
      <!-- Start Add Pet Section-->
4
           <div class="edit-delete edit-photo">
5
6
               <h2>Add pet</h2>
8
               <!-- Start Add Pet Form -->
9
               <form method="post">
                   {% csrf_token %}
10
11
                   {{ form.as_p }}
                    <!-- Add Pet Button -->
12
                    <button class="add-btn" type="submit">Add Pet</button>
13
14
               </form>
15
               <!-- End Add Pet Form -->
16
17
           </div>
           <!-- End Add Pet Section -->
18
19
       {% endblock %}
20
```

Let us check what we have done by now:



The pet form is **generated** and **work corettly**, but it can look much better. To **improve the UI** we can change some **labels**, and some **placeholders** and **make the date field** visualized with a generated calendar. Let us again **open the**







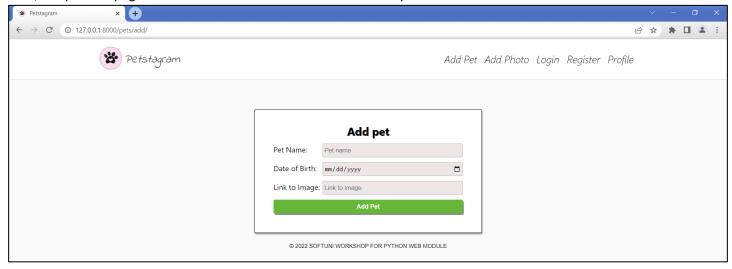




pet/forms.py and write some code:

```
forms.py ×
1
       from django import forms
2
3
       from petstagram.pets.models import Pet
4
5
       class PetForm(forms.ModelForm):
6
           class Meta:
                model = Pet
8
9
                fields = ['name', 'date_of_birth', 'personal_photo']
10
                widgets = {
11
                    'name': forms.TextInput(attrs={'placeholder': 'Pet name'}),
12
                    'date_of_birth': forms.DateInput(attrs={'type': 'date'}),
13
                    'personal_photo': forms.TextInput(attrs={'placeholder': 'Link to image'})
                }
14
                labels = {
15
                    'name': 'Pet Name',
16
17
                    'date_of_birth': 'Date of Birth',
                    'personal_photo': "Link to Image",
18
```

Now, the pet add page looks like that and the form works correctly:



Creating a Pet Edit Form

We should add a pet edit form functionality. We should use the same fields and same formatting as in the pet creation form. So, we can use the already generated PetForm and prepopulate it with the data from the current pet we want to edit. Let us open the pets/views.py file and create the pet edit functionality. When the method is GET we will fill the form with the initial pet data, and if the method is POST - we will update the data in the concrete pet instance and











will save it in the database:

```
27
       def edit_pet(request, username, pet_slug):
           pet = Pet.objects.get(slug=pet_slug)
28
           if request.method == "GET":
               form = PetForm(instance=pet, initial=pet.__dict__)
           else:
32
               form = PetForm(request.POST, instance=pet)
               if form.is_valid():
34
                   form.save()
                   return redirect('pet-details', username, pet_slug)
           context = {'form': form}
37
           return render(request, template_name='pets/pet-edit-page.html', context=context)
38 🚛
```

Refactor the **pet-edit-page.html** template:

```
# pet-edit-page.html ×
1 🐔
       {% extends 'base.html' %}
2
3
     <!-- Start Edit Pet Section -->
4
5
           <div class="edit-delete edit-photo">
               <h2>Edit Pet</h2>
6
7
               <!-- Start Edit Pet From -->
               <form method="post">
8
9
                   {% csrf_token %}
10
                  {{ form.as_p }}
11
                   <!-- Edit Pet Button -->
12
                   <button class="edit-btn" type="submit">Edit</button>
13
               </form>
               <!-- End Edit Pet Form -->
14
15
           </div>
16
           <!-- End Edit Pet Section -->
17
18

☐{% endblock %}.

19
20
```





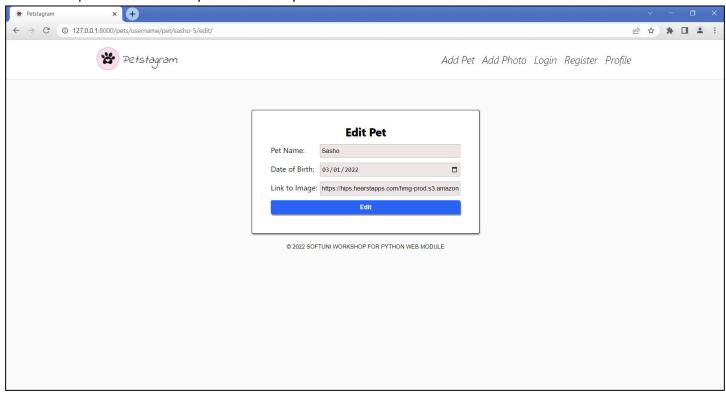






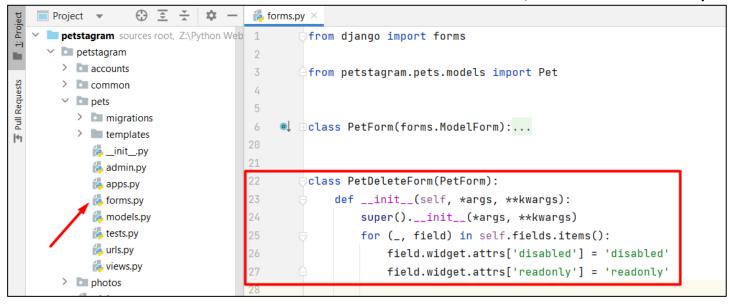


Check if the pet edit functionality works correctly:



Creating a Pet Delete Form

Last for the pet form section, we will **create a pet delete from** and functionality. First, open the **pets/forms.py** file and we will **add the delete form** that **inherits from the PetForm** and **disables all fields**, and set them to be **read-only**:



Then, we will write the view functionality. First, we will try to get the pet object we want to delete. Next, if the request method is **POST** we will delete it and we will redirect to the profile details page. If the method is **GET** we will generate a













form with the initial pet data:

```
41
       def delete_pet(request, username, pet_slug):
42
            pet = Pet.objects.get(slug=pet_slug)
            if request.method == 'POST':
43
44
                pet.delete()
                return redirect('profile-details', pk=1)
            form = PetDeleteForm(initial=pet.__dict__)
47
            context = {'form': form}
49 <del>H</del>
            return render(request, template_name='pets/pet-delete-page.html', context=context)
```

Finally, we will refactor the **pet-delete-page.html** template:

```
🚛 pet-delete-page.html 🗡
1
       {% extends 'base.html' %}
2
 3
      <!-- Starts Delete Pet Section -->
 4
           <div class="edit-delete edit-photo">
 5
               <h2>Delete pet</h2>
6
               <!-- Starts Delete Pet Form -->
8
               <form method="post">
9
                   {% csrf_token %}
10
                   {{ form.as_p }}
                   <!-- Delete Pet Button -->
11
12
                   <button class="delete-btn" type="submit">Delete/button>
13
                   <!-- Go Back Button -->
                   <a class="btn btn-primary" href="javascript:history.back()">
14
                       <button class="edit-btn" type="button">Go back</button>
15
                   </a>
16
               </form>
17
               <!-- End Delete Pet Form -->
18
19
           </div>
           <!-- End Delete Pet Section -->
21
22
       {% endblock %}
```

Check if the form works correctly.













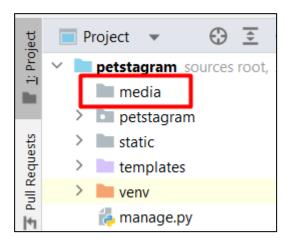
2. Workshop - Part 3.2

Working with Media Files

Next, we want to **create a photo creation and edition forms**. However, first, we need to make some changes to our project to work with media files. Let us **open the settings.py file** and **add the following settings**:

```
settings.py ×
111
        LANGUAGE_CODE = 'en-us'
112
        TIME_ZONE = 'UTC'
113
114
115
        USE_I18N = True
116
117
        USE_TZ = True
118
       # Static files (CSS, JavaScript, Images)
119
        # https://docs.djangoproject.com/en/4.1/howto/static-files/
        STATIC_URL = 'static/'
122
123
        STATICFILES_DIRS = [BASE_DIR / 'static']
124
125
        # Default primary key field type
126
        # https://docs.djangoproject.com/en/4.1/ref/settings/#default-auto-field
127
128
        DEFAULT_AUTO_FIELD = 'django.db.models.BigAutoField'
129
        MEDIA_URL = '/media/'
131
        MEDIA_ROOT = os.path.join(BASE_DIR, 'media/')
132
```

Now, we need to **create a media directory** on the **manage.py** level:

















Next, let us open the photos/models.py file and add an "upload_to" argument in our photo field that will create an "images" directory in the "media" folder and will save the uploaded photos there:

```
1: Proj
   petstagram
                                          from django.core.validators import MinLengthValidator
       media
                                          from diango.db import models
    petstagram
Pull Requests
      > accounts
                                         from petstagram.pets.models import Pet
      > common
                                         from petstagram.photos.validators import validate_file_size
      > 🖿 pets
       > migrations
                                   8
                                        class Photo(models.Model):
         > templates
                                             photo = models.ImageField(upload_to='images', validators=(validate_file_size,)) # new
                                   9
           🖺 __init__.py
                                              description = models.TextField(max_length=300, validators=(MinLengthValidator(10),), blank=True, null=True)
           admin.py
            🐌 apps.py
                                              location = models.CharField(max_length=30, blank=True, null=True)
            🐌 models.py
                                              tagged_pets = models.ManyToManyField(Pet, blank=True)
            tests.pv
                                              date_of_publication = models.DateField(auto_now=True)
            揭 urls.py
            🛵 validators.py
            揭 views.py
```

Make migrations and migrate the changes to the model.

Creating a Photo Creation Form

Let us start adding the photo creation form. Create a new forms.py file in the photos app and implement the form:

```
⊕ 至 🛬 🗢 —
Project
                                       forms.py ×
     petstagram sources root, Z:\Python Web
                                       1
                                             🖯 from django import forms
÷
        media
                                       2
ш
     petstagram
                                       3
                                             from petstagram.photos.models import Photo
Pull Requests
        accounts
                                       4
        > common
                                       5
        > pets
                                              class PhotoCreateForm(forms.ModelForm):
                                       6
       photos
                                       7
                                                   class Meta:
          migrations
                                                       model = Photo
                                       8
          > templates
                                                       fields = '__all__'
                                       9
             _init_.py
             admin.py
                                       10
             apps.py
             forms.py
             models.py
             tests.py
             urls.py
             validators.py
             views.py
```











Next, **add the photo** form functionality in the **photos/views.py** file. Do not forget to add the **request.FILES** (it is a dictionary-like object containing all uploaded files):

```
⊕ ₹ ₹ −
T: Proj

✓ petstagram sources root, Z:\Python Web 1

                                              from diango.shortcuts import render, redirect
     > media
     petstagram
                                       3
                                              from petstagram.photos.forms import PhotoCreateForm
       > accounts
Pull Requests
                                              from petstagram.photos.models import Photo
       > common
       > 🖿 pets

∨ Image photos

          > migrations
                                                   form = PhotoCreateForm(request.POST or None, request.FILES or None)
          > templates
                                                   if form.is valid():
             🛵 __init__.py
             🛵 admin.py
                                                       form.save()
             🐌 apps.py
                                                       return redirect('home')
             4 forms.py
                                                   context = {"form": form}
             models.py
             tests.py
                                       14
                                                   return render(request, template_name='photos/photo-add-page.html', <u>context=context)</u>
             🐌 urls.py
             占 validators.py
             🧸 views.py
                                              def show_photo_details(request, pk):
```

And finally - refactor the **photo-add-page.html** template. Note: **request.FILES** will only contain data if the request method is POST and the <form> has enctype="multipart/form-data":

```
👬 photo-add-page.html 🛚 🗀
1
       {% extends 'base.html' %}
2
3
      4
       <!-- Start Add Photo Section -->
      □<div class="edit-delete edit-photo">
           <h2>Add photo</h2>
6
           <!-- Start Add Photo Form -->
8
           <form method="post" enctype="multipart/form-data">
9
               {% csrf_token %}
10
               {{ form.as_p }}
               <!-- Add Photo Button -->
               <button class="add-btn" type="submit">Add Photo</button>
12
           </form>
13
           <!-- End Add Photo Form -->
14
       </div>
15
       <!-- End Add Photo Section -->
16
```

Check if the form works correctly.

Add Photo to Templates

In the **settings.py** file we created the implementation of the media url - it loads a url like this one: 127.0.0.1:8000/media/images/image.jpeg. However, **it is not enough** - to visualize media files in Django it is needed to



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add a special path that will find the file in the media folder and connect it to a media URL. Let us open the project/urls.py file and add the functionality:

```
<sup>™</sup> urls.py ×

   ■ Project ▼
    petstagram sources root, Z:\Python Web
                                       1
                                              from django.conf import settings
     > media
                                              from django.conf.urls.static import static
     petstagram
                                       3
                                              from django.contrib import admin
Pull Requests
       accounts
                                              from django.urls import path, include
                                       4
       > common
                                       5
       > pets
                                       6
                                              urlpatterns = [
       > 🖿 photos
                                       7
                                                  path('admin/', admin.site.urls),
          __init__.py
                                       8
                                                  path('', include('petstagram.common.urls')),
          🛵 asgi.py
                                       9
                                                  path('accounts/', include('petstagram.accounts.urls')),
          🛵 settings.py
                                                  path('pets/', include('petstagram.pets.urls')),
          🐌 urls.py
                                                  path('photos/', include('petstagram.photos.urls')),
          🐌 wsgi.py
          static
                                              ] + static(settings.MEDIA_URL, document_root=settings.MEDIA_ROOT)
       templates
       venv
        [ manage.py
```

Now, it is time to refactor the template, so it visualizes the uploaded image. Let us open the common app petsposts.html template and find the "Start Pet Photo" comment. Then, we will add only the URL of the uploaded image (Django will find it and will generate it):

```
🚚 pets-posts.html 🗡
                                 <span>{{ photo.location }}</span>
28
                             {% endif %}
29
                         </h3>
31
                     </div>
                </div>
                <!-- End User Details and Image Location -->
33
                <!-- Start Pet Photo -->
35
                <div class="imgBx" id="{{ photo.id }}">
36
                     <img src="{{ photo.photo.url }}" alt="post" class="cover">
                </div>
                <!-- End Pet Photo -->
39
                <!-- Start Like and Share Buttons -->
41
                <div class="bottom">
42
                     <div class="actionBtns">
43
                         <div class="left">
                             <!-- Start Like Button -->
```

Next, open the photo-details-page.html template and add the photo URL.













Create a Photo Edit Form

Next, let us implement the photo edition form. We do NOT want to edit the photo, so we will exclude it from the form:

```
⊕ Ξ ÷ | • −
                                        forms.py >
      Project *
       petstagram sources root, Z:\Python Web
                                              from django import forms
       media
petstagram
                                        3
                                               from petstagram.photos.models import Photo
Pull Requests
        accounts
        > common
                                        5
        > pets
                                              class PhotoCreateForm(forms.ModelForm):
                                        6
        photos
ļή
                                        7
                                                   class Meta:
          migrations
                                        8
                                                        model = Photo
          templates
                                        9
                                                        fields = '__all__'
             photos
                                       10
             __init__.py
             admin.py
                                       11
             apps.py
                                       12
                                               class PhotoEditForm(forms.ModelForm):
             forms.py
                                       13
                                                   class Meta:
             🐌 models.py
                                       14
                                                        model = Photo
             tests.py
                                       15
                                                        exclude = ['photo']
             🐌 urls.py
             🐌 validators.py
             🔁 views.py
```

Open the **photos/views.py** file and **add the photo edit functionality** and refactor the template. When the photo is edited, the **user should be redirected to the photo details page**. Check if the functionality works correctly.

Deleting a Photo

Last for the photo, we will **implement the photo deletion functionality**. The photo is **directly deleted** after clicking on the **delete button** (on the photo details page). To start implementing the functionality, we need to **create a path with a corresponding view**:

```
⊕ ₹ ₹
                                $
                                       🐌 urls.py
    ■ Project ▼
     petstagram sources root, Z:\Python Web
                                               from django.urls import path
     > media
     petstagram
                                       3
                                               from petstagram.photos import views
       > accounts
Pull Requests
                                       4
        > common
                                       5
                                              urlpatterns = [
       > 🖿 pets
                                       6
                                                   path('add/', views.add_photo, name='add-photo'),

∨ Imphotos

                                       7
                                                   path('<int:pk>/', views.show_photo_details, name='photo-details'),
          > migrations
                                       8
                                                   path('edit/<int:pk>/', views.edit_photo, name='edit-photo'),
          > templates
                                       9
                                                   path('delete/<int:pk>/', views.delete_photo, name='delete-photo'),
             _init_.py
             admin.py
             apps.py
             forms.py
             models.py
             🐌 tests.py
             🐌 urls.py
             揭 validators.py
             揭 views.py
```



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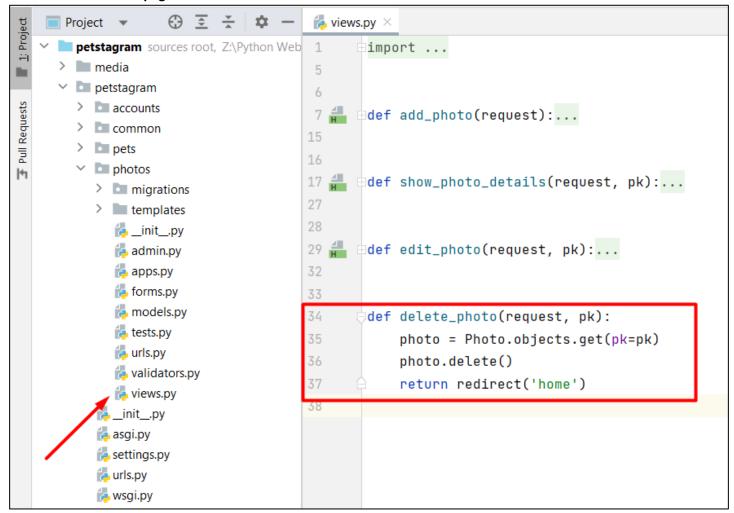








Now, let us create the **delete_photo** view. It **gets the pk of the photo**, **finds the photo object**, **deletes it**, and **redirects to the home page**:



Last, let us **refactor the template** by **adding the delete path to the delete button** in the **photo-details-page.html**. Find the "Link to Delete Pet Photo Page" comment and add the path:

```
## photo-details-page.html ×
                                          <!-- Link to Edit Pet Photo Page -->
                                          <a href="{% url 'edit-photo' photo.pk %}">
                                              <img class="edit-img" src="{% static '/images/edit-pen-icon-6.jpg' %}"</pre>
                                                   alt="edit button">
47
                                          </a>
                                         <!-- Link to Delete Pet Photo Page -->
51
                                          <a href="{% url 'delete-photo' photo.pk %}">
                                              <img class="bin-img" src="{% static '/images/icon-remove-22.jpg' %}"</pre>
                                                   alt="bin button">
                                          </a>
                                     </div>
                                     <!-- End IF the viewer is the creator of the photo -->
                                 </h3>
                             </div>
                             <!-- End User Details and Image Location Section -->
```











3. Workshop - Part 3.3

Creating a Comment Form

It is time to start implementing the comment form. In this project, our users can NOT edit or delete their comments once they post them on the app - so, the only thing needed is to add a comment creation form. Let us add a forms.py file in the common app and create the form. The only visible field we want to add is the text field. Also, it would be great to add a placeholder ("Add comment...") that will guide the user:

```
⊕ ₹ ₹ −

♣ forms.py ×

✓ petstagram sources root, Z:\Python Web

                                             from django import forms
     > media
     petstagram
                                      3
                                             from petstagram.common.models import Comment
       accounts
                                      4
         migrations
Pull
                                            class CommentForm(forms.ModelForm):
                                      6
          > templates
                                      7
                                                 class Meta:
            init .pv
                                      8
                                                     model = Comment
            admin.pv
                                      9
                                                     fields = ['text']
            👛 apps.py
                                                     widgets = {
            forms.py
            models.py
                                                         'text': forms.Textarea(attrs={'placeholder': 'Add comment...'}),
            🐌 tests.py
                                                     }
            🐌 urls.py
            views.py
```

We want to generate the comment form on the Home Page, Pet Details Page, and on Photo Details Page. It means that we should add the form to 3 views (show home page, show pet details, and show photo details views) and 2 templates (pets-posts.html and photo-details-page.html). First, let us add it to the Home page. Open the common/views.pv file and add the form:

```
⊕ 至 🛨 🗢 -

✓ petstagram sources root, Z:\Python Web

                                          from django.shortcuts import render, redirect, resolve_url
e
E
     > media
                                          from pyperclip import copy
     petstagram
                                    3
       > accounts
                                    4
                                          from petstagram.common.forms import CommentForm # new

✓ □ common

                                    5
                                           from petstagram.common.models import Like
         > 🖿 migrations
Pal
                                    6
                                          from petstagram.photos.models import Photo

✓ Image: ✓ templates

                                    7

✓ Image: common

                                    8
                # home-page.html
                                    9
                                          def show_home_page(request):
                apets-posts.html
                                               all_photos = Photo.objects.all()
            _init_.py
            admin.py
                                               comment_form = CommentForm() # new
            apps.py
                                               context = {
            forms.py
                                                   "all_photos": all_photos,
            models.py
                                                   "comment_form": comment_form, # new
            tests.py
            urls.py
            views.py
                                   17
                                               return render(request, template_name='common/home-page.html', context=context)
         pets
          > Immigrations
```

Next, we should add the comment form functionality for saving the form. The best way to do so is by creating a new view that will handle the business logic each time a user posts a comment (no matter on which of the 3 pages). First,



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create a new path that will accept the photo id:

```
T: Project
                    Project 🔻
   ✓ petstagram sources root, Z:\Python Web
                                              from django.urls import path
     > media
                                              from petstagram.common import views
     petstagram
        > accounts
Pull Requests
                                              urlpatterns = [

✓ Image: ✓ common

                                       5
                                                   path('', views.show_home_page, name='home'),
           > migrations
                                                   path("like/<int:photo_id>/", views.like_functionality, name='like'),
           > templates
                                       7
                                                   path("share/<int:photo_id>/", views.copy_link_to_clipboard, name='share'),
             __init__.py
                                       8
                                                  path("comment/<int:photo_id>/", views.add_comment, name='comment'),
             admin.py
                                       9
             🛵 apps.py
             forms.py
             models.pv
             tests.py
             🐌 urls.py
             views.py
```

Next, **create a view** that accepts the comment text from the user, finds the photo by the given photo id, and injects it into the form. Then, the **form is saved**, and the **user is redirected to the same place they last were**:

```
⊕ ₹ ₹
                                ф: —
                                        common\views.py ×
                                                              pets\views.py ×
                                                                             photos\views.py >
1: Proje

✓ petstagram sources root, Z:\Python Web
     > 🖿 media
ш
     petstagram
                                               def show_home_page(request):...
Pull Requests
        accounts

✓ ☐ common

          migrations
                                               def like_functionality(request, photo_id):...
          templates
             > common
             🐌 __init__.py
             🛵 admin.py
                                               def copy_link_to_clipboard(request, photo_id):...
             🛵 apps.py
             🐌 forms.py
             models.py
                                               def add_comment(request, photo_id):
             🐌 tests.py
                                                    if request.method == 'POST':
             urls.py
                                                        photo = Photo.objects.get(id=photo_id)
             views.py
                                                        form = CommentForm(request.POST)
          pets
                                                        if form.is_valid():
             migrations
          > templates
                                                             comment = form.save(commit=False)
             🐌 __init__.py
                                                             comment.to_photo = photo
             🛵 admin.py
                                                             comment.save()
             apps.py
             🐌 forms.py
                                                        return redirect(request.META['HTTP_REFERER'] + f'#{photo_id}')
             🐌 models.py
```

Now, we should **refactor the template**. Let us open the **pets-posts.html** template and find the "Start Add Comments Form" comment. In a difference from the other templates, here we **must add an action to the form**. When





the form is submitted the user must be redirected to the add_comment view:

```
pets-posts.html ×
                                    SCITHO - ([ photo:dato_or_postoatton ]] -/ no-
134
135
                      <!-- Start Add Comments Section -->
                      <div class="addComments">
136
137
                          <div class="reaction">
                              <h3>
138
                                   <i class="far fa-smile"></i></i>
139
                              </h3>
140
                          </div>
141
                          <!-- Start Add Comments Form -->
142
                          <form method="post" action="{% url 'comment' photo.id %}">
143
                              {% csrf_token %}
144
145
                              {{ comment_form }}
146
                              <button type="submit">Post</button>
147
                          </form>
148
                          <!-- End Add Comments Form -->
```

We should add the comment form to the pet details view and the photo details view with the photo details template. **Check** if the form works correctly on the 3 pages.

Creating a Search Form

Let us do something additional for our project. Let us **add a search bar functionality**. As you know, not every form in Django needs to be connected to a Model. In this case, we want to create a search form, but we do not want each search of a user to be saved to a database. So, we can **start directly by creating a form**. Our search bar will **receive a string that will search for a pet by its name**:

```
⊕ ₹ ₹ −
      Project *
                                       forms.py ×
     petstagram sources root, Z:\Python Web
                                            ⊨from django import forms
     > media
ш
     petstagram
                                       3
                                             ≘from petstagram.common.models import Comment
Requests
        accounts
                                       4
        common
          migrations
                                            dclass CommentForm(forms.ModelForm):...
                                       6
          templates
                                      13
             > common
             __init__.py
                                      15
                                             class SearchForm(forms.Form):
             🛵 admin.py
                                                  pet_name = forms.CharField(
                                      16
             apps.py
                                      17
             🐌 forms.py
                                                      widget=forms.TextInput(
             揭 models.py
                                      18
                                                          attrs={
             🐌 tests.py
                                      19
                                                               'placeholder': 'Search by pet name...'
             🐌 urls.py
             views.py
        > pets
        > m photos
```



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Our search form is **positioned on the home page**, so we do not need to create an additional path. We can directly add the search form functionality in the **show_home_page** view. The search form is generated in the context. And if it is filled and the method is POST, we will **filter the photos** to find **all of them containing a tagged pet with the given name**. We **make the search case insensitive** by filtering with the **icontains** lookup:

```
✓ ■ petstagram sources root, Z:\Python Web 1

                                         from django.shortcuts import render, redirect, resolve_url
 > 🖿 media
                                         from pyperclip import copy

∨ □ petstagram

    > accounts
                                         from petstagram.common.forms import CommentForm, SearchForm

✓ ☐ common

                                        from petstagram.common.models import Like
      > migrations
                                        from petstagram.photos.models import Photo

✓ Image templates

         __init__.py
                                        def show_home_page(request):
         🛵 admin.py
         🐌 apps.py
                                             all_photos = Photo.objects.all()
         forms.pv
                                             comment form = CommentForm()
         models.py
                                             search_form = SearchForm()
         tests.py
         🐁 urls.py
                                             if request.method == 'POST':
         views.py
                                                  search_form = SearchForm(request.POST)
       ets pets
      photos
                                                      all photos = all photos.filter(tagged pets name icontains=search form.cleaned data['pet name'])
       __init__.py
       🐌 asgi.py
                                             context = {
       settings.py
                                                 "all_photos": all_photos.
       Lurls.py
       💤 wsgi.py
                                                  "comment_form": comment_form,
  > 🖿 static
                                                  "search_form": search_form,
  > templates
  > env
    🐌 manage.py
                                  25
                                             return render(request, template_name='common/home-page.html', context=context)
  ||||| External Librarie
```

Last for this workshop, we will add the form in the template. Open the home-page.html template and add the form:

```
🚛 home-page.html 🗦
1 🐔
       {% extends 'base.html' %}
 2
 3
      <div class="container">
               <div class="col-9">
                   <!-- Start Searchbar Form -->
                   <form class="searchbar" method="post">
8
9
                       {% csrf_token %}
                       {{ search_form }}
                       <button>
                           <img src="/static/images/search.png" height="18" alt="img2">
12
                       </button>
14
                   </form>
                   <!-- End Searchbar Form -->
15
16
                   {% include 'common/pets-posts.html' %}
17
18
19
               </div>
           </div>
21
22
       {% endblock %}
```



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