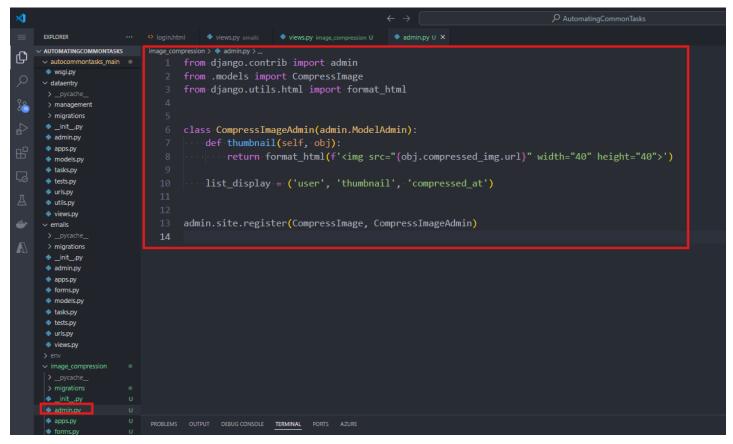
Topic: Image Compression 26: Thumbnail, Size, Automatic Download

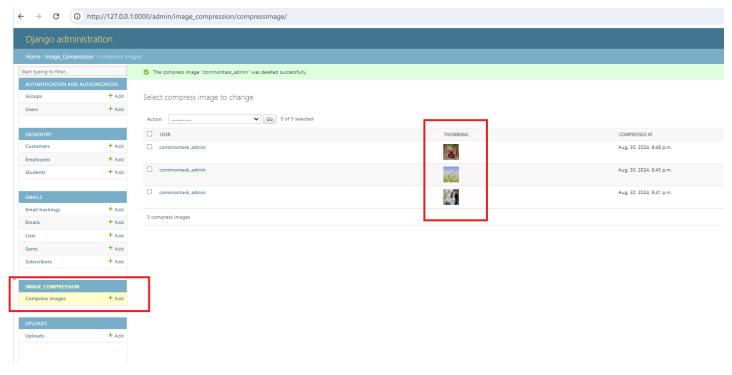
Speaker: Udemy Instructor Rathan Kumar | Notebook: Django: Automating Common Tasks



1. We need some thumbnails for our images on the admin dashboard. So, update the ADMIN.PY as:



2. Reload your admin panel:



3. To display the original and compressed sizes of the image, in the ADMIN.PY, we update:

```
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     EXPLORER

∨ AUTOMATINGCO... □ ひ ⊕ ··· image_compression > • admin.py > ...

凸
                            1 from django.contrib import admin
                            2 from .models import CompressImage
                            3 from django.utils.html import format html
     > migrations
     __init__.py
     admin.py
                                class CompressImageAdmin(admin.ModelAdmin):
     apps.py
     tasks.py
                                         return format_html(f'<img src="{obj.compressed_img.url}" width="40" height="40">')
def org_img_size(self, obj):
                                         return format_html(f'{obj.original_img.size/(1024*1024):<mark>.</mark>2f} MB')
                                    def comp_img_size(self, obj):
                                         size_in_mb = obj.compressed_img.size/(1024*1024)
                                         if size_in_mb > 1:
                                             return format html(f'{size in mb:.2f} MB')
                                             size_in_kb = obj.compressed_img.size/1024
                                             return format_html(f'{size_in_kb:.2f} KB')
                                       return format html(f'{obj.quality} %')
     > static
     > dataentry
                                     list_display = ('user', 'thumbnail', 'org_img_size', 'quality_percent',
                                                       'comp_img_size', 'compressed_at')
      track_dashboard.html
                                 admin.site.register(CompressImage, CompressImageAdmin)
     o alerts.html
      base.html
```

4. To allow the user to download automatically the compressed image, we update our VIEWS.PY

```
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     EXPLORER
                           image_compression > ● views.py > ⊕ compress

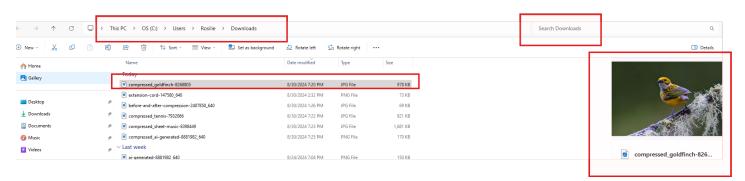
2 from .forms import CompressImageForm
    ∨ AUTOMATINGCO.... 📴 🖔 📵 ···
Ð
     ∨ dataentry

• urls.py
                                   from PIL import Image
      views.py
                               5 from django.contrib import messages

✓ emails

                               6 from django.http import HttpResponse
      ._init_py
      admin.py
      models.py
      tasks.py
                                            form = CompressImageForm(request.POST, request.FILES)
      tests.py
      urls.py
                                                original_img = form.cleaned_data['original_img']
      views.py
                                                 quality = form.cleaned_data['quality']
                                                 compressed_image = form.save(commit=False)
                                                 compressed_image.user = user
                                                 img = Image.open(original_img)
                                                 output_format = img.format
     > static
                                                 buffer = io.BytesIO()
                                                 img.save(buffer, format=output_format, quality=quality)
      ∨ emails
                                                 buffer.seek(0)
       o send-email.html
       track_dashboard.html
                                                 compressed_image.compressed_img.save(
       ompress.html
                                                      f'compressed_{original_img}', buffer
      O home html
      O login.html
       register.html
                                                      buffer.getvalue(), content_type=f'image/{output_format.lower()}')
                                                 response['Content-Disposition'] = f'attachment;filename=compressed_{original_img}'
      .gitignore
                                            form = CompressImageForm()
      redirect def redirect
                                                  'form': form,
      render def render
       😝 CompressimageForm cla
                                            return render(request, 'image_compression/compress.html', context)
```

5. Open your downloads folder for the images:



6. Push your changes to Github.

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