/websiteproject/forum/apps/object_finder/admin.py

```
# Import required models and admin module
from .models import Tag, Post
from django.contrib import admin

# Register models for admin interface
admin.site.register(Tag) # Enable Tag model management in admin
admin.site.register(Post) # Enable Post model management in admin
```

/websiteproject/forum/apps/object_finder/apps.py

```
from django.apps import AppConfig

class ObjectFinderConfig(AppConfig):
    """Configuration class for the object_finder app"""
    default_auto_field = 'django.db.models.BigAutoField'  # Specifies the primary

key type
    name = 'apps.object_finder'  # The Python package

name of the app
```

/websiteproject/forum/apps/object_finder/form_tags.py

```
from django import template
```

```
# Create template library instance
register = template.Library()

@register.filter(name='add_class')
def add_class(value, css_class):
    """Add CSS class to form field widget"""
    return value.as_widget(attrs={'class': css_class})
```

/websiteproject/forum/apps/object_finder/forms.py

```
# Import required models and forms

from .models import Comment

from django import forms

from .models import Post

from django.contrib.auth.forms import UserCreationForm
```

```
class SignUpForm(UserCreationForm):
  first_name = forms.CharField(max length=30, required=False, help text='Optional.')
  last name = forms.CharField(max length=30, required=False, help text='Optional.')
      fields = ['title']
class CommentForm(forms.ModelForm):
users"""
      max length=255, required=False, label='Your Name (optional)')
      widget=forms.Textarea(attrs={
```

```
label='',
)

def __init__(self, *args, **kwargs):
    """Initialize form and remove anonymous name field if user is authenticated"""
    user_authenticated = kwargs.pop('user_authenticated', False)
    super(CommentForm, self).__init__(*args, **kwargs)
    if user_authenticated:
        self.fields.pop('anonymous_name', None)
```

/websiteproject/forum/apps/object_finder/models.py

```
from django.db import models
from django.contrib.auth.models import User
from django.db.models import JSONField
class Image(models.Model):
class Profile (models.Model):
  user = models.OneToOneField(User, on delete=models.CASCADE)
      User, on delete=models.CASCADE, null=True, blank=True)
  anonymous name = models.CharField(max length=255, null=True, blank=True)
```

```
return f'Anonymous comment on (self.post.title)'

objects = models.Manager()

# Model for post categorization tags

class Tag(models.Model):
    name = models.CharField(max_length=100)
    tag_id = models.CharField(max_length=100, unique=True)

objects = models.Manager()

# Main post model containing the post content and metadata

class Post(models.Model):
    title = models.CharField(max_length=100)
    content_delta = models.JSONField()
    author = models.ForeignKey(User, on_delete=models.CASCADE)
    date_posted = models.DateTimeField(auto_now_add=True)
    tags = models.ManyToManyField(Tag, blank=True)
    attributes = JSONField(default=dict)

objects = models.Manager()
```

/websiteproject/forum/apps/object_finder/tests.py

```
self.assertEqual(test user.username, 'testuser')
self.assertEqual(test user.email, 'test@gmail.com')
self.assertTrue(test user.check password('testPass123..'))
self.assertEqual(saved user.username, test user.username)
self.assertEqual(saved_user.email, test_user.email)
       email='post@test.com',
    client.login(username='postuser', password='testPass123..')
    post data = {
           content type='image/jpeg'
    response = client.post('/form', post data)
    latest post = Post.objects.latest('date posted')
    self.assertEqual(latest_post.title, 'Test Post')
```

```
self.assertEqual(latest_post.author, user)
               author=user
            comment = Comment.objects.crate(
               post=post,
               author=user
            self.assertEqual(post.comments.count(), 1)
def test index page accessible(self):
   client = Client()
   self.assertEqual(response.status_code, 200)
```

/websiteproject/forum/apps/object_finder/urls.py

```
# Import required Django modules and views
from django.urls import path
```

/websiteproject/forum/apps/object_finder/views.py

```
import json

from django.contrib.auth.forms import UserCreationForm

from django.shortcuts import render, get_object_or_404, redirect

from .forms import PostForm, CommentForm, SignUpForm

from .models import Post, Tag, Comment

from django.contrib.auth.decorators import login_required

from django.db.models import Q

import re

from django.http import JsonResponse

from django.views.decorators.csrf import csrf_exempt

@login_required
```

```
@csrf_exempt
def update is solved(request, post id, comment id):
           post = get_object_or_404(Post, id=post_id)
           if request.user != post.author:
status=403)
           comment = get object or 404(Comment, id=comment id)
           post.comments.update(is solved=False)
           comment.save()
           comments = post.comments.all().order by('-date posted')
           return render(request, 'object finder/comments.html', {'comments':
comments, 'post': post})
def profile_view(request, user_id):
  return render(request, 'object finder/profile.html', {'user posts': user posts})
def index(request):
  posts = Post.objects.all().order by('-date posted')[0:10]
  return render(request, 'object_finder/index.html', {'view_name': 'Recent
Discussions', 'posts': posts})
@login required
def search_posts(request):
```

```
query = request.GET.get('q', '').strip()
for key, value in request.GET.items():
    if key.startswith('attribute_') and value.strip():
        attribute name = key[len('attribute '):]
        attr value = value.strip()
       unit value = request.GET.get(unit name, "").strip()
        tags__name__icontains=query)
   posts = posts.filter(query condition)
if attributes:
    filtered posts = []
```

```
filtered posts.append(p)
      posts = Post.objects.none()
  posts = sorted(posts, key=lambda x: x.date_posted, reverse=True)
@login_required
def form(request):
       form = PostForm(request.POST)
           content delta = request.POST.get('content delta', None)
           tags_data = request.POST.get('tags', '[]')
                   tags = json.loads(tags_data)
```

```
return render(request, 'object finder/form.html', {
for key, value in request.POST.items():
        attribute name = key[len('attribute '):]
        if value.strip():
                'value': value.strip() }
post.attributes = attributes
post.author = request.user
post.content_delta = content_delta
```

```
tag_id = tag_data.get('id')
                   tag_label = tag data.get('label')
                       name=tag label
               return redirect('/')
           return render(request, 'object finder/form.html', {
def view_post(request, post_id):
  post = get object or 404(Post, id=post id)
  if request.user.is authenticated:
       form type = request.POST.get('form type')
      if form_type == 'comment_form':
           if request.user.is_authenticated:
                   request.POST, user authenticated=True)
                   request.POST, user_authenticated=False)
```

```
comment.post = post
               comment.save()
               return redirect('view post', post id=post.id)
  is solved = any([comment.is solved for comment in comments])
def signup view(request):
       form = SignUpForm(request.POST)
          user.last_name = form.cleaned_data.get('last_name')
```

```
user.set_password(form.cleaned_data.get('password1'))
     user.save()
     return redirect('login')
else:
    form = SignUpForm()
return render(request, 'registration/signup.html', {'form': form})
```

/websiteproject/forum/apps/object finder/templatetags/form tags.py

```
# Create template library instance
register = template.Library()

@register.filter(name='add_class')
def add_class(value, css_class):
    """Add CSS class to a form field widget"""
    return value.as_widget(attrs={'class': css_class})
```

/websiteproject/forum/apps/object_finder/templates/registration/login.html

/websiteproject/forum/apps/object_finder/templates/registration/signup.html

```
Contain at least one uppercase letter
                        Not be a commonly used password
                 {% endif %}
                 {% if form.password2.errors %}
form.password2.errors|striptags }}
                    Email error: {{ form.email.errors|striptags }}
fewer.</small>
address.</small>
(Optional) </label>
(Optional) </label>
```

/websiteproject/forum/apps/object_finder/templates/object_finder/attributes.html

```
<option value="pyramid">pyramid</option>
       <input type="number" class="form-control flex-grow-1" id="attribute-weight"</pre>
name="attribute weight">
style="width:80px; flex-shrink:0;">
       <input type="number" class="form-control flex-grow-1" id="attribute-width"</pre>
name="attribute width">
style="width:80px; flex-shrink:0;">
       <input type="number" class="form-control flex-grow-1" id="attribute-height"</pre>
name="attribute height">
style="width:80px; flex-shrink:0;">
```

```
name="attribute length">
style="width:80px; flex-shrink:0;">
name="attribute volume">
style="width:80px; flex-shrink:0;">
  <label for="attribute-description of parts">Description of Parts/label>
name="attribute description of parts"></input>
```

```
name="attribute hardness"></input>
name="attribute pattern"></input>
name="attribute texture"></input>
<div class="form-group">
  <input type="text" class="form-control" id="attribute-condition"</pre>
name="attribute condition"></input>
name="attribute brand"></input>
  <input type="text" class="form-control" id="attribute-print"</pre>
name="attribute print"></input>
<div class="form-group">
```

```
name="attribute functionality"></input>
  <label for="attribute-smell">Smell</label>
name="attribute smell"></input>
<div class="form-group">
  <label for="attribute-taste">Taste</label>
name="attribute taste"></input>
<div class="form-group">
  <label for="attribute-location">Location</label>
name="attribute location"></input>
  <input type="text" class="form-control" id="attribute-time period"</pre>
name="attribute time period"></input>
name="attribute year">
name="attribute price">
```

/websiteproject/forum/apps/object_finder/templates/object_finder/base.html

```
data-bs-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false"
aria-label="Toggle navigation">
aria-current="page" href="/">Home</a>
aria-label="Search" name="q">
data-bs-toggle="modal" data-bs-target="#advancedSearchModal">
            Advanced Search
```

```
<i class="fas fa-edit"></i> Create Post
role="button" data-bs-toggle="dropdown" aria-expanded="false">
aria-labelledby="userDropdown">
                  <i class="fas fa-user-circle"></i> Profile
inline;">
                      <button type="submit" class="dropdown-item logout-button">
```

```
aria-labelledby="advancedSearchModalLabel" aria-hidden="true">
           <h5 class="modal-title" id="advancedSearchModalLabel">Advanced Search/h5>
           <button type="button" class="btn-close" data-bs-dismiss="modal"</pre>
aria-label="Close"></button>
Query</label>
name="q" placeholder="Enter search terms">
           <button type="button" class="btn btn-secondary"</pre>
data-bs-dismiss="modal">Close</button>
        <h1>My(stery) Object Finder</h1>
```

```
<a href="{% url 'signup' %}" class="btn btn-primary btn-lg mt-3">Join Now</a>
<main class="col-md-8">
    <h5 class="mt-4">Popular Topics</h5>
```

```
{% for topic in popular topics %}
       <span class="text-muted">&copy; {{ now.year }} (My)stery Object Finder
Name</span>
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/umd/popper.min.js"
integrity="sha512-2rNj2KJ+D8s1ceNasTlex6z4HWyOnEYLVC3FigGOmyQCZc2eBXKgOxQmo3oKLHyfcj53
uz4QMsRCWNbLd32Q1g==" crossorigin="anonymous" referrerpolicy="no-referrer"></script>
integrity="sha384-0pUGZvbkm6XF6gxjEnlmuGrJXVbNuzT9qBBavbLwCsOGabYfZo0T0to5eqruptLy"
crossorigin="anonymous"></script>
href="https://cdn.jsdelivr.net/npm/select2@4.1.0-rc.0/dist/css/select2.min.css"
rel="stylesheet" />
src="https://cdn.jsdelivr.net/npm/select204.1.0-rc.0/dist/js/select2.min.js"></script>
```

/websiteproject/forum/apps/object_finder/templates/object_finder/comments.html

```
<!-- Main comment section container -->
<div id="comment-div">
```

```
<div hx-swap="outerHTML" class="comment mb-3 p-3 border rounded">
                        {{ comment.author.username }}
                {% endif %}
        {% if user.is authenticated and user == post.author %}
                hx-post="{% url 'update is solved' post.id comment.id %}"
                hx-target="#comment-div"
                type="checkbox"
```

/websiteproject/forum/apps/object_finder/templates/object_finder/form.html

```
typing to search tags...">
      <input type="hidden" name="content delta" id="content-delta">
      <input type="hidden" name="tags" id="selected-tags">
      <button type="submit" id="submit-button" class="btn</pre>
  document.addEventListener('DOMContentLoaded', function() {
      var quill = new Quill('#quill-editor', {
      var form = document.getElementById('post-form');
      var submitButton = document.getElementById('submit-button');
```

```
event.preventDefault();
    var content delta = JSON.stringify(quill.getContents());
    document.getElementById('content-delta').value = content delta;
var tagsInput = document.getElementById('tags-input');
var selectedTagsInput = document.getElementById('selected-tags');
function createSuggestionList() {
    suggestionList.id = 'suggestion-list';
    tagsInput.parentNode.appendChild(suggestionList);
var suggestionList = createSuggestionList();
tagsInput.addEventListener('input', function() {
    if (query.length > 0) {
        WikidataAPI.searchEntities(query, 5).then(results => {
            results.forEach(result => {
                li.addEventListener('click', function() {
                    addTag(result);
                    tagsInput.value = '';
```

```
suggestionList.appendChild(li);
      function addTag(tag) {
          selectedTags.push(tag);
          updateSelectedTagsInput();
          renderSelectedTags();
      function removeTag(tagId) {
          updateSelectedTagsInput();
          renderSelectedTags();
      function updateSelectedTagsInput() {
          selectedTagsInput.value = JSON.stringify(selectedTags);
      function renderSelectedTags() {
          var tagsContainer = document.getElementById('selected-tags-container');
              tagsInput.parentNode.insertBefore(tagsContainer,
tagsInput.nextSibling);
```

```
tagBadge.style.color = 'gray';
tagBadge.textContent = tag.label;
var removeBtn = document.createElement('span');
removeBtn.className = 'ml-1 text-danger';
removeBtn.style.cursor = 'pointer';
removeBtn.innerHTML = '×';
removeBtn.addEventListener('click', function() {
        removeTag(tag.id);
      });
      tagBadge.appendChild(removeBtn);
      tagsContainer.appendChild(tagBadge);
    });
}

// Close suggestion list when clicking outside
document.addEventListener('click', function(event) {
    if (!tagsInput.contains(event.target)) {
        suggestionList.innerHTML = '';
    }
    });
});
</script>
{* endblock content *}
```

/websiteproject/forum/apps/object_finder/templates/object_finder/index.html

```
<div class="card-body">
class="text-decoration-none">{{ post.title }}</a></a>
post.date posted|date:"F j, Y" }}</small>
     {% endif %}
     {% for num in posts.paginator.page range %}
```

```
<a class="page-link" href="?page={{ num }}">{{ num
}}</a>
aria-label="Next">
         var ops = contentDelta.ops || [];
                if (typeof op.insert === 'object' && op.insert.image && !imageUrl)
                    imageUrl = op.insert.image;
```

```
previewText = previewText.substring(0, 100) + '...';
          document.addEventListener('DOMContentLoaded', function() {
              document.getElementById('post-text-{{ post.id }}').textContent =
previewText.trim();
{% endblock content %}
```

/websiteproject/forum/apps/object_finder/templates/object_finder/profile.html

```
{% endif %}
<h2>User Posts</h2>
 {% empty %}
  This user has not posted anything yet.
```

/websiteproject/forum/apps/object_finder/templates/object_finder/view_post.html

```
{% extends "object_finder/base.html" %}
```

```
% load static %}
{% block content %}
          This issue has been resolved.
          <div class="col-md-6">
value.unit }}
```

```
<div class="container">
target="_blank" class="tag badge badge-info" data-tag-id="{{    tag.tag_id }}"
style="text-decoration: none; color: inherit;">
                   {% endfor %}
      <h4>About the Author</h4>
  {% include 'object finder/comments.html' %}
      <h4>Leave a Comment</h4>
      <form method="post">
          <input type="hidden" name="form type" value="comment form">
```

```
id="post as anonymous" name="post as anonymous">
anonymous</label>
          <button type="submit" class="btn btn-primary">Submit Comment</button>
src="https://cdnjs.cloudflare.com/ajax/libs/blueimp-md5/2.19.0/js/md5.min.js"></script
  var quill = new Quill('#quill-viewer', {
          toolbar: false
  quill.setContents(content delta);
  document.addEventListener('DOMContentLoaded', function() {
      var tags = document.querySelectorAll('.tag');
          tagElement.addEventListener('mouseover', function() {
```

```
showTooltip(tagElement, tagDataCache[tagId]);
                   fetchTagDetails(tagElement, tagId);
          tagElement.addEventListener('mouseout', function() {
               hideTooltip();
       function fetchTagDetails(element, tagId) {
          WikidataAPI.getEntityDetails(tagId)
                  var description = entity.descriptions && entity.descriptions.en ?
entity.descriptions.en.value : 'No description available.';
                       var fileName = entity.claims.P18[0].mainsnak.datavalue.value;
                  var data = { description: description, imageUrl: imageUrl };
                   tagDataCache[tagId] = data;
                   showTooltip(element, data);
                  console.error('Error fetching tag details:', error);
       function getCommonsImageUrl(fileName) {
          var sanitizedFileName = fileName.replace(/ /q, ' ');
          var encodedFileName = encodeURIComponent(sanitizedFileName);
          var md5Hash = md5(sanitizedFileName);
              md5Hash.substring(0,1) + '/' + md5Hash.substring(0,2) + '/' +
encodedFileName;
```

```
function showTooltip(element, data) {
        tooltip = document.createElement('div');
        tooltip.style.border = '1px solid #ccc';
        tooltip.style.padding = '10px';
        document.body.appendChild(tooltip);
       img.style.marginBottom = '10px';
       tooltip.appendChild(img);
   tooltip.appendChild(desc);
function hideTooltip() {
```

```
tooltip.style.display = 'none';
}
}
});
</script>
{% endblock content %}
```

/websiteproject/forum/apps/object_finder/templates/object_finder/static/css/styles.css

```
overflow-y: auto;
width: 100%;
body {
```

```
.card {
.navbar-brand {
background: url("../images/forum-banner.jpg") no-repeat center center;
.hero-overlay {
background-color: rgba(0, 0, 0, 0.5); /* Semi-transparent overlay */
.hero-section .container {
top: 50%;
font-size: 3rem;
.hero-section p.lead {
```

/websiteproject/forum/apps/object_finder/templates/object_finder/static/js/wikidata.js

```
const WikidataAPI = (() => {
  let defaultLimit = 10;
      defaultLimit = limit;
          uselang: language,
      const url = `${apiUrl}?${new URLSearchParams(params).toString()}`;
```

```
async function getEntityDetails(entityId, languages = ['en']) {
       languages: languages.join('|'),
   const url = `${apiUrl}?${new URLSearchParams(params).toString()}`;
       const data = await response.json();
async function getRelatedEntities(entityId, relationshipType = 'P279') {
       return Promise.reject(new Error('Entity ID is required.'));
           wd:${entityId} wdt:${relationshipType} ?item .
   const url = `${sparqlEndpoint}?${new URLSearchParams({
```

```
}).toString()}`;
       const data = await response.json();
       return results.map(result 2 => ({
           id: result 2.item.value.split('/').pop(),
async function listLanguages(entityId) {
       return Promise.reject(new Error('Entity ID is required.'));
   const url = `${apiUrl}?${new URLSearchParams(params).toString()}';
        .then(response => response.json())
               return Object.keys(entity.labels);
```

```
console.error('Wikidata API Error:', error);
    return [];
    });
}

return {
    searchEntities,
    getEntityDetails,
    getRelatedEntities,
    listLanguages,
    setDefaultLimit,
};
})();

// Usage examples (uncomment to test):

// WikidataAPI.setDefaultLimit(5);
// WikidataAPI.searchEntities('Python').then(results => console.log(results));
// WikidataAPI.getEntityDetails('Q42').then(details => console.log(details));
// WikidataAPI.getRelatedEntities('Q42', 'P31').then(related => console.log(related));
// WikidataAPI.listLanguages('Q42').then(languages => console.log(languages));
```

/websiteproject/forum/forum/settings_dev.py

```
Django settings for forum project.

Generated by 'django-admin startproject' using Django 5.1.3.

For more information on this file, see https://docs.djangoproject.com/en/5.1/topics/settings/

For the full list of settings and their values, see https://docs.djangoproject.com/en/5.1/ref/settings/

"""

from pathlib import Path import os

# Build paths inside the project like this: BASE_DIR / 'subdir'.
```

```
BASE_DIR = Path(__file__).resolve().parent.parent
SECRET KEY = 'django-insecure-9ggce dmz69(+-10@nw7fcx0o&e1ch9(8g1&8iy5&qe7q+546y'
DEBUG = True
ALLOWED HOSTS = ["*"]
LOGIN REDIRECT URL = "/"
LOGOUT REDIRECT URL = "/"
INSTALLED APPS = [
ROOT URLCONF = 'forum.urls'
```

```
TEMPLATES = [
AUTH PASSWORD VALIDATORS = [
```

```
LANGUAGE CODE = 'en-us'
TIME ZONE = 'UTC'
USE I18N = True
USE TZ = True
STATIC URL = 'static/'
STATIC ROOT = os.path.join(BASE DIR, 'staticfiles')
DEFAULT_AUTO_FIELD = 'django.db.models.BigAutoField'
DATA UPLOAD MAX MEMORY SIZE = 52428800
```

/websiteproject/forum/forum/settings.py

```
Django settings for forum project.

Generated by 'django-admin startproject' using Django 5.1.3.

For more information on this file, see

https://docs.djangoproject.com/en/5.1/topics/settings/

For the full list of settings and their values, see

https://docs.djangoproject.com/en/5.1/ref/settings/
```

```
from pathlib import Path
import os
BASE DIR = Path( file ).resolve().parent.parent
SECRET_KEY = 'django-insecure-9ggce_dmz69(+-10@nw7fcx0o&e1ch9(8g1&8iy5&qe7q+546y'
DEBUG = True
ALLOWED HOSTS = ["*"]
LOGIN REDIRECT URL = "/"
LOGOUT REDIRECT URL = "/"
INSTALLED APPS = [
MIDDLEWARE = [
```

```
ROOT URLCONF = 'forum.urls'
TEMPLATES = [
DATABASES = {
       'PASSWORD': os.environ.get('DATABASE PASSWORD', 'postgres'),
```

```
'NAME':
LANGUAGE CODE = 'en-us'
TIME ZONE = 'UTC'
USE I18N = True
USE TZ = True
STATIC URL = 'static/'
STATIC ROOT = os.path.join(BASE DIR, 'staticfiles')
DEFAULT_AUTO_FIELD = 'django.db.models.BigAutoField'
DATA_UPLOAD_MAX_MEMORY_SIZE = 52428800
```

```
URL configuration for forum project.
The `urlpatterns` list routes URLs to views. For more information please see:
Examples:
Function views
Class-based views
Including another URLconf
from django.contrib import admin
from django.urls import path, include
urlpatterns = [
  path('', include('apps.object_finder.urls')), # Root URL points to object_finder
app
```

/websiteproject/forum/forum/wsgi.py

```
import os

from django.core.wsgi import get_wsgi_application

# Set Django settings module path
os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'forum.settings')

# Initialize WSGI application
application = get_wsgi_application()
```

/websiteproject/forum/manage.py

```
import os
import sys
def main():
   execute from command line(sys.argv)
if __name__ == '__main__':
```

/websiteproject/gitignore

```
*.sqlite3
venv/
.DS_Store/
_pycache__/
*/staticfiles/
```

/websiteproject/docker-compose.yml

```
version: '3.8'
```

```
volumes:
```

Dockerfile

```
# Use the official Python image as the base

FROM python:3.10-slim

# Set environment variables

ENV PYTHONDONTWRITEBYTECODE 1 # Prevents Python from writing .pyc files to disk

ENV PYTHONUNBUFFERED 1 # Prevents Python from buffering stdout and stderr

# Set work directory

WORKDIR /app
```

```
# Install system dependencies

RUN apt-get update && apt-get install -y \
    build-essential \
    libpq-dev \
    libpsl-dev \
    libffi-dev \
    python3-dev \
    && rm -rf /var/lib/apt/lists/*

# Copy requirements.txt to the working directory

COPY requirements.txt /app/

# Install Python dependencies

RUN pip install --no-cache-dir -r requirements.txt

# Copy the rest of the application code to the working directory

COPY . /app/

# Expose port 8000 (the default port for Django's development server)

EXPOSE 8000

# Run the Django development server

CMD ["python", "forum/manage.py", "runserver", "0.0.0.0:8000"]
```

README.md

```
# Initialize the venv

python3 -m venv venv

# Activate venv

source venv/bin/activate

# Install requirements

pip3 install -r requirements.txt
```

```
# Migrate database
python3 forum/manage.py migrate
# Create admin user
python3 forum/manage.py createsuperuser
# Collect static files
python3 forum/manage.py collectstatic
# Run server
python3 forum/manage.py runserver
# Login trough admin panel
http://127.0.0.1:8000/admin/
## When Docker is the prefered way to deploy
# Docker compose up and build
docker-compose up -d --build
# Docker run migrations
docker-compose exec web python forum/manage.py migrate
# Docker compose down
docker-compose down
# Docker create superuser
docker-compose exec web python forum/manage.py createsuperuser
## When running tests, make sure you're in where manage.py is located
python manage.py test --settings forum.settings_dev
```

Requirements.txt

Pillow==11.0.0 psycopg2==2.9.1