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Classified Ad Web Site - Milestone 2



In this assignment, you will expand your classified ads web site to add functionality equivalent to:

https://chucklist.dj4e.com/m2 <a>™2

The primary additions from the previous milestone are to add an image to each ad and add comments for each ad.

You will build this application by borrowing parts and pieces from the code that runs

https://samples.dj4e.com/ 🖸

and combining them into a single application.

Important Note: If you find you have a problem saving files in the PythonAnywhere system using their browser-based editor, you might need to turn off your ad blocker for this site - weird but true.

Adding Pictures to the Ads Application

In this section, you will pull bits and pieces of the pics sample application into your add support for an optional single picture per ad. If you already added pictures to your application in a previous assignment, you can just skip to the instructions to add comments to your application.

(1) Add this to your ads/model.py taking inspiration from di4e-samples/pics/models.py

```
class Ad(models.Model) :
    ...
    # Picture
    picture = models.BinaryField(null=True, editable=True)
    content_type = models.CharField(max_length=256, null=True, help_text='The MIMEType of the file')
    ...
```

Do not include the entire Pic model. Of course do the migrations once you have modified the model.

(2) Copy in the pics/forms.py as well as pics/humanize.py.

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DJ4E (3) Take a look at pics/views.py and adapt the patterns in PicCreateView and PicUpdateView and replace the code for AdCreateView and AdUpdateView in ads/views.py. (https://www.dj4e.com)
These new views don't inherit from owner.py because they manage the owner column in the get() and post() methods.

Lesson's (fitter www.dj4e.com/fesson's) by looking through pice / templates / form big land the looking through pice / templates / form big land the looking through pice / form big land through pice / form big land



(5) Alter the templates/ads/ad_detail.html template by looking through pics/templates/pics/detail.html and to add code to include the image in the output it is likely a mistake in your forms.py.

(6) Add an ad_picture route to your urls.py based on the pics_picture route from pics/urls.py:

path('ad_picture/<int:pk>', views.stream_file, name='ad_picture'),

(5) Add the stream_file() view from pics/views.py and adapt appropriately.

Test to make sure you can upload, view, and update pictures with your ads.

Adding Comments to the Ads Application

In this section, you will pull bits and pieces of the forum sample application into your ads application to add support for comments for each ad.

(1) Update your models.py adding the comment feature from the forums/models.py

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through='Comment', related_name='comments_owned')

through='Comment', related_name='comments_owned')

text = models.Model):

text = models.TextField(

validators=[MinLengthValidator(3, "Comment must be greater than 3 characters")]

ad = models.ForeignKey(Ad, on_delete=models.CASCADE)

owner = models.DateTimeField(auto_now_add=True)

updated_at = models.DateTimeField(auto_now=True)

Shows up in the admin list

def __str_(self):

if len(self.text) < 15 : return self.text
return self.text[:11] + ' . . . '

Do not add the Forum model - simply connect the Comment model to the Ad model. Of course do the migrations once you have modified the model successfully.

- (2) Pull the CommentForm class from forums/forms.py into your forms.py.
- (3) Adapt the get() method from ForumDetailView to your AdDetailView to retrieve the list of comments and create the CommentForm and pass them into your templates/ads/ad_detail.html template through the context.
- (4) Adapt the templates/ads/ad_detail.html template to show comments and show a delete icon when a comment belongs to the current logged in user.
- (5) Also add the ability to add a comment to an ad in ad detail.html when the user is logged in by looking at the techniques in forums/templates/forums/detail.html.
- (6) Add a route in urls.py for the ad_comment_create and ad_comment_delete routes from forums/urls.py. Make sure to use the same URL patterns as shown here:

```
urlpatterns = [
    ...
    path('ad/<int:pk>/comment',
        views.CommentCreateView.as_view(), name='ad_comment_create'),
    path('comment/<int:pk>/delete',
        views.CommentDeleteView.as_view(success_url=reverse_lazy('ads:all')), name='ad_comment_delete'),
]
```

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(7) Adapt the comment related views from forums/views.py and put them into your views.py . DJ4E (https://www.dj4e.com)

(8) You will have to adapt the forums/templates/forums/comment_delete.html template to work in your ads application.

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Manual Testing

It is always a good idea to manually test your application before submitting it for grading. Here are a set of manual test steps:

Instructor <a>™



- Make two accounts If you have not already done so
- Log in to your application on the first account
- Create an ad with a picture
- In the all ads list make sure that the edit / delete button shows correctly
- View its details click on the picture to see that it fulls the screen
- Update the ad, check that the details are correct
- Delete the ad just to make sure it works the autograder gets grumpy if it cannot delete an ad
- Create two more ads
- Make two comments on an ad make sure you can see the delete button on your comments
- Delete one of your comments
- Log in on the second account make sure you do not see edit / delete buttons on the existing ads
- Go into one the ad you commented on above make sure to see the comment from the first user and make sure there is **no** delete button
- Make two new comments make sure you do see the delete button for your comments but not for the other user's comments
- Delete one of your comments and make sure it goes away

Do Some or All of the Challenges

You will have to finish these by the next assignment - so you might as well work on them now. And they are fun.

- (1) Make yourself a gravatar at https://en.gravatar.com/ 🗗 it is super easy and you will see your avatar when you log in in your application and elsewhere with gravatar enabled apps. The gravatar can be anything you like it does not have to be a picture of you. The gravatar is associated with an email address so make sure to give an email address to the user you create with createsuperuser.
- (2) Change your home/static/favicon.ico to a favicon of your own making. I made my favicon at https://favicon.io/favicon-generator/ 🗗 it might not change instantly after you update the favicon because they are cached extensively. Probably the best way to test is to go right to the favicon url after you update the file and press 'Refresh' and/or switch browsers. Sometimes the browser caching is "too effective" on a favicon so to force a real reload to check if the new favicon is really being served you can add a GET parameter to the

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https://chucklist.dj4e.com/favicon.ico?x=42

Lessons (https://www.dj4e.com/lessons) Discussions (https://www.dj4e.com/discussions) My Progress (https://www.dj4e.com/assignments) Change the x value to something else if you want to test over and over.

(3) Make social login work. Take a look at github_settings-dist.py ②, copy it into mysite/mysite/github_settings.py and go through the process on github to get your client ID and Instructor ② secret. The documentation is in comments of the file. Also take a look at dj4e-samples/urls.py ② and make sure that the "Switch to social login" code is correct and at the end of your mysite/mysite/github_settings.py.



You can register two applications with github - one on localhost and one on PythonAnywhere. If you are using github login on localhost - make sure that you register http://127.0.0.1:8000/ instead of http://localhost:8000/ and use that in your browser to test your site. If you use localhost, you probably will get the The redirect_uri MUST match the registered callback URL for this application. error message when you use social login.

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