Welcome to Our Django Image Upload Tutorial!

Are you ready to take your Django skills to the next level? In this comprehensive tutorial, we'll guide you through the process of uploading images in your Django web application. Whether you're a beginner or an experienced developer, we've got you covered!

What You'll Learn:

- Setting up your Django project for image handling.
- Creating a user-friendly image upload form.
- Handling image uploads in views and models.
- Storing images in your media directory.
- Displaying uploaded images on your web pages.
- Implementing image resizing and optimization.
- And much more!

1. Configuration of PIL for image display.

- First and foremost, you need to have PIL or pillow installed on your computer.
- ➤ From your terminal after activating your virtualenv and going into your project folder you run a command **python m pip install Pillow.**
- For you to see that **PIL** has been downloaded successfully run this command from the terminal **pip freeze**.
- This enables you to see all the downloaded apps in your Django environment, but it doesn't mean that PIL is appended in the installed apps.
- > Therefore, you're supposed to go to settings and append it by 'PIL',.

Note: You should write it like that one above or else you can get errors in your terminal.

2. Configuration of our settings.

MEDIA_URL = '/media/'
is a setting that defines the base URL where media
files are served from.

It specifies the URL prefix that will be used to construct the URLs for accessing media files.

```
MEDIA_ROOT = os.path.join(BASE_DIR, 'media')
# is a setting that defines the absolute filesystem
path to the directory where media
# files will be stored on the server's file system.
```

- We go to our settings so that we can put there paths for the server to access our images and to configure our media settings to specify where our uploaded files (including images) will be stored.
- ➤ This sets up the URL path and the local filesystem path where your uploaded images will be stored.

3. Configuring our models.py file.

→ We go to models.py to create a model that includes a 'FileField' or 'ImageField' to handle image uploads.

- → The upload_to parameter specifies the subdirectory within your MEDIA_ROOT where the uploaded images will be stored.
- → We also import PIL package so that we can be able to use the image field by from PIL import Image

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4. Configuring our form for image upload.

- ★ Create a form to handle image uploads. You can use Django's ModelForm to generate a form based on your model:
- ★ We can also import our model "Mylmage" if you didn't import all (*) from the models.py file.

5. Configuring Urls.py for the project (master urls.py).

During development, you need to configure your project's URLs to serve media files. Add the following to your project's urls.py.

from django.conf import settings
from django.conf.urls.static import static

❖ If settings.DEBUG:

Urlpatterns
+=
static(settings.MEDIA_URL,document_root=settings.MEDIA_ROO
T)

6. Configuring urls.py for the application.

- Configure your URL patterns to route to the view that handles image uploads.
- Configure your URL patterns to route to the view that handles where you will go after the image has been uploaded.

7. Configuring our views and templates.

◆ Create views and templates to handle image uploads and display them. In your views, you'll process the form and save the uploaded image. NOTE: After making some adjustments to the models.py don't forget to go to your terminal to makemigrations and to migrate. Other than that, you will not get the desired output.