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HOW TO UPLOAD VIDEO BY USER IN DJANGO:

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Here in this tutorial i will show you how can you upload video by user interface . Follow the tutorial :

Create django project and django app at first :

```
django-admin startproject project .
django-admin startapp app
```

Now go to settings.py and install the app

```
INSTALLED_APPS =
```

Now go to models.py inside app folder :

here just create some of fields and use validators , and you have to create a validator file.

```
from django.db import models
from .validators import file_size


# Create your models here.
class Video(models.Model):
    caption=models.CharField(max_length=100)
    video=models.FileField(upload_to="video/%y",validators=)
    def __str__(self):
        return self.caption
```

Now create validators.py file inside app and edit it:

```
from django.core.exceptions import ValidationError


def file_size(value):
    filesize=value.size
    if filesize>419430400:
        raise ValidationError("maximum size is 50 mb")
```

Here the value of the file size is in bits , you can change it .

Now go to admin.py and register the model :

```
from django.contrib import admin
# Register your models here.
from .models import Video
admin.site.register(Video)
```

Now create forms.py inside app folder :

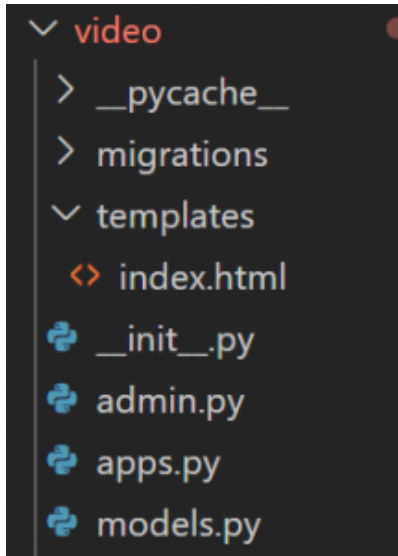Here just create a video form for uploading the video properly:

```
from .models import Video
from django import forms
```

```python
class Video_form(forms.ModelForm):

    class Meta:

        model=Video

        fields=("caption","video")
```

Now edit views.py:

```python
from django.shortcuts import render,HttpResponse,redirect

from .forms import Video_form

from .models import Video


def index(request):
    all_video=Video.objects.all()
    if request.method == "POST":
        form=Video_form(data=request.POST,files=request.FILES)
        if form.is_valid():
            form.save()
            return HttpResponse("<h1> Uploaded successfully </h1>")
    else:
        form=Video_form()
    return render(request,'index.html',{"form":form,"all":all_video})
```

Now create templates folder inside app folder and create index.html inside templates and edit it:

```html
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
 integrity="sha384-JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z" crossorigin="anonymous">

    <title>Hello, world!</title>
  </head>
  <body>
```

```html
<nav class="navbar navbar-dark bg-dark">

    <span class="navbar-brand mb-0 h1">BLC</span>

  </nav>

<h1>Welcome to blearning club</h1>

<div class="container">


 <div class="mt-5">

  <form action="." method="post" enctype="multipart/form-data">

    {% csrf_token %}

    {{form.as_p}}

    <button class="btn btn-success btn-lg">Upload</button>


  </form>

</div>


<hr>

{% for x in all %}

    <h3 class="text-center mt-2 mb-2">{{x.caption}}</h3>

    <video class="embed-responsive embed-responsive-16by9" controls="controls" >

        <source src="{{x.video.url}}" type="video/mp4" />

      </video>

    {% endfor %}


</div>


<!-- Optional JavaScript -->
```

```html
<!-- jQuery first, then Popper.js, then Bootstrap JS -->

<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj" crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js" integrity="sha384-
9/reFTGAW83EW2RDu2S0VKaIzap3H66lZH81PoYlFhbGU+6BZp6G7niu735Sk7lN" crossorigin="anonymous"></script>

<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js" integrity="sha384-
B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPlYxofvL8/KUEfYiJOMMV+rV" crossorigin="anonymous"></script>

  </body>
</html>
```

Now if you use the authentication system for uploading video then create if tag inside index.html and pass the form into the if tag:

```html
 {% if request.user.is_authenticated %}
 <div class="mt-5">
  <form action="." method="post" enctype="multipart/form-data">
    {% csrf_token %}
    {{form.as_p}}
    <button class="btn btn-success btn-lg">Upload</button>


  </form>
 </div>


 {% endif %}
```

Now go to the urls.py into project folder :

Now you have to import views and add media url and media root with url patterns , because every media has unique url.

```
from django.contrib import admin

from django.urls import path,include

from django.conf import settings

from django.conf.urls.static import static

from app import views


urlpatterns =


if settings.DEBUG:
    urlpatterns += static(settings.MEDIA_URL,document_root=settings.MEDIA_ROOT)
```

Now define MEDIA_ROOT & MEDIA_URL inside settings.py :

```
STATIC_URL = '/static/'

MEDIA_URL= '/media/'

MEDIA_ROOT=os.path.join(BASE_DIR,"media/")
```

Now migrate the database :

```
python manage.py makemigrations

python manage.py migrate

python manage.py createsuperuser
```

Now run the server and upload the video and you can design it on your way , now you can create video grid website or more , Thanks for read the tutorial .