

FILE UPLOADING, VIEWING AND DOWNLOADING FILE IN DJANGO

IN MODELS.PY

```
class FileCourse(models.Model):
    name = models.CharField(max_length=200,db_index=True)
    year = models.CharField(max_length=200,db_index=True)

    slug=models.SlugField(unique=True)

    def get_absolute_url(self):
        return reverse('file_by_category', args=[self.slug])

class UploadFiles(models.Model):
    filecourse = models.ForeignKey(FileCourse, on_delete=models.CASCADE, blank=True,
null=True)
    name = models.CharField(max_length=200, blank=True, null=True)
    owner = models.CharField(max_length=200, blank=True, null=True)
    pdf = models.FileField(upload_to='pdfs/', blank=True, null=True)
    cover = models.ImageField(upload_to='covers/', blank=True, null=True)
    year = models.CharField(max_length=200, blank=True, null=True)

    def __str__(self):
        return self.name
```

IN VIEWS.PY

ILA KWENYE HIYO YA VIEWS INAYOITWA APPLOADVIEW KUNA CODE KWA AJILI YA PAGINATION PIA KUNA CODES KWA AJILI YA KUDISPLAY CATEGORY YA FILE HUSIKA SIO LAZMA KUZIWEKA KM HUTAKI.

LKN PIA KUNA VIEW KWA AJILI YA KUSEARCH HIZO NOTES NA KWENDA KUZIDISPLAY KWENYE HTML PAGE INAYOITWA SEREACH_PDF.

```
from django.db.models.query import QuerySet
from django.http.response import HttpResponseRedirect
from django.shortcuts import render, redirect, reverse, get_object_or_404

from django.contrib import messages
from django.urls import reverse_lazy
from django.views import generic
from django.contrib.messages.views import SuccessMessageMixin
from django.views.generic import CreateView, DetailView, DeleteView, UpdateView, ListView

from django.contrib.auth import login, authenticate
from django.contrib.auth.forms import UserCreationForm
from django.http import JsonResponse
from django.db.models import Q
import datetime
```

```

from django.views.generic.base import TemplateView
from django.core.paginator import Paginator
#from reportlab.pdfgen import canvas
#from reportlab.lib.pagesizes import letter
#from reportlab.lib.pagesizes import landscape
#from reportlab.platypus import Image
import os
from django.conf import settings
from django.http import HttpResponse
#from django.template.loader import get_template
#from xhtml2pdf import pisa
#from django.contrib.staticfiles import finders
import calendar
from calendar import HTMLCalendar
from DimosoApp.models import *
from DimosoApp.forms import *
from hitcount.views import HitCountDetailView
from django.core.paginator import PageNotAnInteger, Paginator, EmptyPage

# Create your views here.

def AploadView(request, filecourse_slug=None):
    filecourse = None
    categories = FileCourse.objects.all()
    files = UploadFiles.objects.all().order_by('-id')

    #SET PAGINATION kwa AJILI YA NOTES
    paginator = Paginator(files, 6)
    page = request.GET.get('page')
    try:
        files=paginator.page(page)
    except PageNotAnInteger:
        files = paginator.page(1)
    except EmptyPage:
        files=paginator.page(paginator.num_pages)
    form = UploadFilesForm(request.POST or None)# form ya kuserch ila nimeifuta nimetumia
hzo code za chini

    #MWISHO WA PAGINATION
    #searching button codes LKN HAITUMIKI TENA HAPA NIMETIMIA ILE YA KWENYE
SEARCH_PDF
    if request.method == 'POST':
        files = UploadFiles.objects.filter( name__icontains=form['name'].value())
    #hizi codes ni kwa ajili ya kudisplay category
    if filecourse_slug:
        files = UploadFiles.objects.all()

```

```

filecourse = get_object_or_404(FileCourse,slug=filecourse_slug)
files= files.filter(filecourse=filecourse)

#SET PAGINATION KWA AJILI YA CATEGORY
paginator = Paginator(files, 6)
page = request.GET.get('page')
try:
    files=paginator.page(page)
except PageNotAnInteger:
    files = paginator.page(1)
except EmptyPage:
    files=paginator.page(paginator.num_pages)
#ZINAISHIA HAPA


context = {
    "form":form,
    "categories":categories,
    "filecourse":filecourse,

    "files":files,
    "page":page
}

return render(request, 'files/upload.html',context)
#HII NI KWA AJILI YA KUSERCH PDF ILA NI FUNCTION YA KULETA ILE AUTOCOMPLETE TU
def search_notes(request):
    print(request.GET)
    #form = AvailableMedicinesForm()
    query_original = request.GET.get('term')
    search = Q(name__icontains=query_original)
    #queryset = Dozi.objects.filter(name__icontains=query_original)
    files = UploadFiles.objects.filter(search)
    mylist= []
    mylist += [x.name for x in files]
    return JsonResponse(mylist, safe=False)

#HII NI KWA AJILI YA KUAPLOAD NOTES KWA KUTUMIA FORM
def upload_documents(request):
    categories = FileCourse.objects.all()
    if request.method == 'POST':
        data = request.POST
        pdf = request.FILES.get('pdf')
        cover = request.FILES.get('cover')

```

```

if data['filecourse'] != 'none':
    filecourse = FileCourse.objects.get(id=data['filecourse'])
#elif data['filecourse_new'] != "":
    #filecourse, created = FileCourse.objects.get_or_create(name=data['filecourse_new'])
else:
    filecourse = None
files = UploadFiles.objects.create(
    filecourse=filecourse,
    name = data['name'],
    owner = data['owner'],
    year = data['year'],
    cover=cover,
    pdf=pdf,

)
messages.success(request, "File uploaded successful")
return redirect('AploadView')

context={
    "categories":categories,

}

return render(request, 'files/upload_documents.html',context)

#HII NI KWA AJILI YA KUSEARCH NOTES KWENYE APLOADVIEW THEN TUNAZIDISPLAY
KWENY SEARCH_PDF.HTML
def search_pdf(request):
    query=None
    results=[]
    if request.method == "GET":
        query=request.GET.get("search")
        results=UploadFiles.objects.filter(Q(name__icontains=query))
    context={
        "query":query,
        "results":results
    }
    return render(request, 'files/search_pdf.html',context)

```

URLS.PY OF THE APPLICATION

```
from django.urls import path
```



```

from . import views

urlpatterns = [

    path('AploadView/', views.AploadView, name="AploadView"),
    path('<slug:filecourse_slug>/', views.AploadView, name="file_by_category"),
    path('upload_documents', views.upload_documents, name="upload_documents"),
    #path('uploading_task', views.uploading_task, name="uploading_task"),
    path('search_notes', views.search_notes, name="search_notes"),
    path('search_pdf', views.search_pdf, name="search_pdf"),

    #path('base/', views.base, name="base"),

]

```

TEMPLATES

UPLOAD.HTML

```

{% extends 'DimosoApp/base.html' %}
{% load static %}
{% load hitcount_tags %}

{% block content %}

<!DOCTYPE html>
<html>
<head>
    <title>{% block title %}Notes {% endblock %}</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">

    <style type="text/css">
    *{
        margin: 0px;
        padding: 0px;
        box-sizing: border-box;

    }
    #searchi{
        width: 100%;
        padding: 15px;

```

```

border: 3px solid blue;
border-radius: 20px;
}

body{
  overflow-x: hidden;
  width: 100%;
}

}

a{
  text-decoration: none;
}

#testimonials{
  display: flex;
  justify-content: center;
  align-items: center;
  flex-direction: column;
  width: 100%;
}

.testimonials{
  letter-spacing: 1px;
  margin: 30px 20px;
  padding: 10px 20px;
  display: flex;
  flex-direction: column;
  justify-content: center;align-items: center;
}

.testimonials-heading h1{
  font-size: 2.2rem;
  font-weight: 500;
  background-color: #202020;
  color: white;
  padding: 10px 20px;
}

.testimonials-heading span{
  font-size: 1.3rem;
  color: #252525;
  margin-bottom: 10px;
  letter-spacing: 2px;
  text-transform: uppercase;
}

.testimonials-box-container{
  display: flex;
  justify-content: center;
  align-items: center;
  flex-wrap: wrap;
  width: 100%;
}

```



```

}
.testimonials-box{
  width: 100%;
  box-shadow: 2px 2px 30px rgba(0,0,0,0.1);
  background-color:white;
  padding: 20px;
  margin: 15px;
  cursor: pointer;
}
.profile-img{
  width: 50px;
  height: 50px;
  border-radius: 50%;
  overflow: hidden;
  margin-right: 10px;
}
.profile-img img{
  width: 100%;
  height: 100%;
  object-fit: cover;
  object-position: center;
}
.profile{
  display: flex;
  align-items: center;
}
.name-user{
  display: flex;
  flex-direction: column;
}
.name-user strong{
  color: black;
  font-size: 1.1rem;
  letter-spacing: 0.5px;
}
.name-user span{
  color: black;
  font-size: 0.8rem;
}
.reviews{
  color: red;
}
.box-top{
  display: flex;
  justify-content: space-between;
  align-items: center;
  margin-bottom: 20px;
}

```



```

.client-comment p{
  font-size: 0.9rem;
  color: black;
  font-weight: bold;
}

.testimonial-box:hover{
  transform: translateY(-10px);
  transition: all ease 0.3s;
}

</style>

</head>
<body>
  <div class="container-fluid" style="margin-top: 1cm;">

    {% if messages %}
      {% for message in messages %}

        <div class="alert alert-warning alert-dismissible fade show" role="alert">
          <strong>{{message}}</strong>
          <button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
        </div>
      {% endfor %}
    {% endif %}

    <center>
      <div style="background-color: yellow;padding: 15px;">
        <a href="{% url 'upload_documents' %}" class="btn btn-success btn-md my-0 p" type="submit"
          style="margin-bottom: : 3cm;margin-bottom: 1cm;"> Upload Notes </a>
        </div>
      </center>

    <div class="row">
      <div class="col-md-10">

        <form action="{% url 'search_pdf' %}" class="form-group" method="get">

          <label style="font-size: 20px;font-weight: bold;color: black;">Search</label><br>
          <input type="text" name="search" id="searchi" placeholder="Search a notes"><br>
          <button class="btn btn-primary" style="border-radius: 15px;width: 5cm;margin-top: 1cm;margin-
            bottom: 1cm;">Search</button>

```



```

</form>

</div>
</div>

<section id="testimonials" style="width: 100%;">

<div class="row" style="margin-top: 10px;">

    <div class="col-md-12" style="display: inline;">
        <a href="{% url 'AploadView' %}" class="btn btn-primary btn-md my-0 p" type="submit"
style="margin-bottom: : 3cm;margin-bottom: 1 cm;display: flex;font-weight: bold;font-size: 20px;">
All Notes</a>

    </div>

{% for x in categories %}
    <div class="col-md-12" style="display: inline;">
        <a href="{{x.get_absolute_url}}" class="btn btn-primary btn-md my-0 p" type="submit"
style="margin-bottom: : 3cm;margin-bottom: 1 cm;display: flex;font-weight: bold;font-size: 20px;">
{{x.name}} </a>

    </div>
{% endfor %}
</div>

<div class="testimonials-heading" style="margin-top: 2cm;">

```



```

<h1>All Uploaded Notes</h1>

</div>

<div class="testimonials-box-container">
{% if files %}
{% for file in files %}

    <div class="testimonials-box">

        <div class="box-top">

            <div class="profile">

                <div class="name-user">
                    <strong style="font-size: 30px;">File Name: {{file.name}}</strong>
                    <span style="font-size: 17px;">File Owner: {{file.owner}}</span>
                    <span style="font-size: 17px;">Year: {{file.year}}</span>
                </div>
            </div>

            <div class="reviews">

                {% if file.cover %}

                <div class="" style="margin-top: 1cm;">
                    
                </div>
                {% else %}

                <div class="">
                    
                </div>
                {% endif %}
            </div>
        </div>
    </div>
{% endfor %}
{% endif %}

```



```

    </div>

</div>
<!--comments-->
<div class="client-comment">

    <p>
        {% if file.pdf %}

            <a href="{{file.pdf.url}}" class="btn btn-primary btn-md my-0 p" type="submit"
style="margin-right: 1cm;">View Pdf</a>
            {% else %}

<button class="btn btn-black btn-md my-0 p" style="padding: 2px;"> <span style="color: red;font-
weight: bold;font-size: 20px;margin-right: 1cm;">No View </span> </button>
                {% endif %}

{% if file.pdf %}
            <a href="{{file.pdf.url}}" download class="btn btn-danger btn-md my-0 p"
type="submit">Download Pdf</a>
            {% else %}

                <button class="btn btn-black btn-md my-0 p" style="padding: 2px;"> <span style="color:
green;font-weight: bold;font-size: 20px;margin-right: 0cm;">No Download </span> </button>

                {% endif %}
        </p>
    </div>

</div>

{% endfor %}
{% else %}
<center>
    <h2>There is no any Notes uploaded</h2>
</center>
{% endif %}

```

```
</div>
```

```
</section>
```

```
<center>
```

```
<div class="d-flex flex-column m-auto pagination mt-5">
  <nav aria-label="page navigation">
    <ul class="pagination pg-grey justify-content-center">
      {% if files.has_previous %}
        <li class="page-item" style="margin-right: 15px;">
          <a href="?page=1"><button class="btn-primary" style="font-size: 22px;border-radius: 10px;font-family: bold;padding-right: 10px;">&laquo First </button></a>
        </li>

        <li class="page-item" style="margin-right: 15px;">
          <a href="?page={{files.previous_page_number }}"><button class="btn-primary" style="font-size: 22px;border-radius: 10px;font-family: bold;padding-right: 10px;">Previous</button></a>
        </li>
      {% endif %}
      <h1 style="color: red;font-size: 20px;font-weight: bold;margin-top: 10px;margin-right: 15px;">
Page {{files.number}} of {{files.paginator.num_pages }}</h1>
      {% if files.has_next %}
        <li class="page-item" style="margin-right: 15px;">
          <a href="?page={{files.next_page_number }}"><button class="btn-primary" style="font-size: 22px;border-radius: 10px;font-family: bold;padding-right: 10px;">Next </button></a>
        </li>
        <li class="page-item" style="margin-right: 15px;">
          <a href="?page={{files.paginator.num_pages }}"><button class="btn-primary" style="font-size: 22px;border-radius: 10px;font-family: bold;padding-right: 10px;">Last &raquo</button></a>
        </li>
      {% endif %}
```



```
</ul>

</nav>

</div>

</center>


</div>

<!--jquery code for autocomplete javascriptcode---->
<script src="{% static 'DimosoApp/assets/jqueryui/external/jquery/jquery.js' %}"
type="text/javascript"></script>
<script src="{% static 'DimosoApp/assets/jqueryui/jquery-ui.js' %}"
type="text/javascript"></script>


<script >
$( function() {
  var availableTags = [
    "ActionScript",
    "AppleScript",
    "Asp",
    "BASIC",
    "C",
    "C++",
    "Clojure",
    "COBOL",
    "ColdFusion",
    "Erlang",
    "Fortran",
    "Groovy",
    "Haskell",
    "Java",
    "JavaScript",
    "Lisp",
    "Perl",
    "PHP",
    "Python",
    "Ruby",
```

```

        "Scala",
        "Scheme"

    ];

    $( "#searchi" ). autocomplete({
        source: "{% url 'search_notes' %}",
    });

    });

</script>

</body>
</html>
{% endblock %}

```

APLOAD_DOCUMENTS.HTML

```

{% extends 'DimosoApp/base.html' %}
{% load static %}
{% load hitcount_tags %}

{% block content %}

<!DOCTYPE html>
<html>
<head>
    <title>{% block title %}Upload Notes {% endblock %}</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <style type="text/css">
        body{

            overflow-x: hidden;
            background-color: wheat;

        }

        input{
            width: 100%;
            padding: 15px;

```



```

<form method="POST" action="" enctype="multipart/form-data" class="form-group">
  {% csrf_token %}
  <div class="d-flex flex-column pb-3">

<img src="">

    </div>
    <center><h1 style="font-family: bold;color: green;">UPLOADING YOUR PDF
FILE</h1></center>
    <label>File Name</label><br>

    <input type="text" name="name" id="" class="" placeholder="Enter file name" ><br>

    <label>File Owner</label><br>
<input type="text" name="owner" id="" class="" placeholder="Enter owner of a file"><br>

<label>Select Category</label><br>
<select name="filecourse" style="color: blue;font-weight: bold;font-size: 20px;padding:
15px;width: 10cm;border: 2px solid blue;border-radius: 15px;">
  <option value="none" style="color: black;font-weight: bold;font-family: bold;">Select
category....</option>
  {% for filecourse in categories %}
    <option value="{{filecourse.id}}" style="color: black;font-weight: bold;font-family:
bold;">{{filecourse.name}}</option>

  {% endfor %}
</select><br>
<!--
<label>Create a new category</label><br>
<input type="text" name="filecourse_new" id="" class="" placeholder="create a new
category"><br>
---->

<label>Choose Cover Image</label><br>
<input type="file" name="cover" enctype="multipart/form-data" id="" class="" placeholder="Enter
file cover" ><br>

<label>Choose Pdf File</label><br>
<input type="file" name="pdf" enctype="multipart/form-data" id="" class="" placeholder="Enter pdf
file" ><br>

<label>Year Of Study</label><br>
<input type="text" name="year" id="" class="" placeholder="Enter year" ><br>
<input type="submit" class="btn-primary" value="Submit">
</form>

```




```
</center>

</div>
</body>
</html>
{% endblock %}
```

SEARCH_PDF.HTML

```
{% extends 'DimosoApp/base.html' %}
{% load static %}
{% load hitcount_tags %}

{% block content %}

<!DOCTYPE html>
<html>
<head>
  <title>{% block title %}Seasrch page {% endblock %}</title>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <style type="text/css">
    *{
      margin: 0px;
      padding: 0px;
      box-sizing: border-box;
    }
    #name{
      width: 100%;
    }
    body{
      overflow-x: hidden;
      width: 100%;
    }
    a{
      text-decoration: none;
    }
    #testimonials{
      display: flex;
      justify-content: center;
      align-items: center;
      flex-direction: column;
```

```

    width: 100%;
  }
.testimonials{
  letter-spacing: 1px;
  margin: 30px 20px;
  padding: 10px 20px;
  display: flex;
  flex-direction: column;
  justify-content: center;align-items: center;
}
.testimonials-heading h1{
  font-size: 2.2rem;
  font-weight: 500;
  background-color: #202020;
  color: white;
  padding: 10px 20px;
}
.testimonials-heading span{
  font-size: 1.3rem;
  color: #252525;
  margin-bottom: 10px;
  letter-spacing: 2px;
  text-transform: uppercase;
}
.testimonials-box-container{
  display: flex;
  justify-content: center;
  align-items: center;
  flex-wrap: wrap;
  width: 100%;
}
.testimonials-box{
  width: 500px;
  box-shadow: 2px 2px 30px rgba(0,0,0,0.1);
  background-color:white;
  padding: 20px;
  margin: 15px;
  cursor: pointer;
}
.profile-img{
  width: 50px;
  height: 50px;
  border-radius: 50%;
  overflow: hidden;
  margin-right: 10px;
}
.profile-img img{

```



```
width: 100%;
height: 100%;
object-fit: cover;
object-position: center;
}
.profile{
display: flex;
align-items: center;
}
.name-user{
display: flex;
flex-direction: column;
}
.name-user strong{
color: black;
font-size: 1.1rem;
letter-spacing: 0.5px;
}
.name-user span{
color: black;
font-size: 0.8rem;
}
.reviews{
color: red;
}
.box-top{
display: flex;
justify-content: space-between;
align-items: center;
margin-bottom: 20px;
}
.client-comment p{
font-size: 0.9rem;
color: black;
font-weight: bold;
}

.testimonial-box:hover{
transform: translateY(-10px);
transition: all ease 0.3s;
}

</style>

</head>
<body>
```



```

<div class="container" style="width: 100%;overflow-x: visible;">

  <h1 style="color: green;">Looking For Your Searches</h1>

  {% if query %}

  <h3 style="color: red;font-weight: bold;">{% with results.count as total_results %}
  found {{total_results}} results
  {% endwith %}
</h3>


{% for file in results %}

<div class="testimonials-box-container">
  <div class="testimonials-box">


    <div class="box-top">

      <div class="profile">

<div class="name-user" style="width: 100%;">
  <strong style="font-size: 30px;">File Name: {{file.name}}</strong>
  <span style="font-size: 17px;">File Owner: {{file.owner}}</span>

</div>
  </div>

  <div class="reviews" style="">


    {% if file.cover %}

<div class="" style="margin-top: 1cm;">
  
</div>
{% else %}

<div class="">
  
</div>
{% endif %}

```



```

    </div>

</div>
<!--comments---->
<div class="client-comment">

    <p>
        {% if file.pdf %}

            <a href="{{file.pdf.url}}" class="btn btn-primary btn-md my-0 p" type="submit"
style="margin-right: 2px;">View Pdf</a>
            {% else %}

<button class="btn btn-black btn-md my-0 p" style="padding: 2px;"><span style="color: red;font-
weight: bold;font-size: 20px;margin-right: 2px;">No View </span> </button>
            {% endif %}

{% if file.pdf %}
    <a href="{{file.pdf.url}}" download class="btn btn-danger btn-md my-0 p"
type="submit">Download Pdf</a>
    {% else %}

        <button class="btn btn-black btn-md my-0 p" style="padding: 2px;"><span style="color:
green;font-weight: bold;font-size: 20px;margin-right: 0cm;">No Download </span> </button>

        {% endif %}
    </p>

</div>

</div>

{% empty %}
<h1>These Notes not uploaded </h1>

{% endfor %}

{% else %}
<h3>Error in your query</h3>
    {% endif %}

```

```
<a href="{% url 'AploadView' %}"class="btn btn-primary btn-md my-0 p" type="submit"
style="margin-bottom: : 3cm;margin-bottom: 1cm;display: flex;font-weight: bold;font-size:
20px;width: 3cm;"> Go Back </a>
</div>

</body>
</html>
{% endblock %}
```