SOURCE CODE:

```
Virtual-Classroom-master > Virtual-Classroom-master > lecture > ◆ formspy > __

from django import forms

from django.contrib.auth.models import User

from .models import CoursePack, Podcast, Video, Pdf, Evaluation

class CoursePackForm(forms.ModelForm):

class Meta:
    model = CoursePack
    fields = ['instructor', 'course_title', 'course_code', 'thumbnail']

class PodcastForm(forms.ModelForm):

class PodcastForm(forms.ModelForm):

class Meta:
    model = Podcast
    fields = ['material_title', 'material_file']

class UserForm(forms.ModelForm):

password = forms.charfield(widget=forms.PasswordInput)

class Meta:
    model = User
    fields = ['username', 'email', 'password']

class EvaluationForm(forms.Form):
    post = forms.charfield()

class EvaluationForm(forms.Form):
    post = forms.charfield()
```

```
Virtual-Classroom-master > Virtual-Classroom-master > lecture > \Phi models.py > ...

1 from django, contrib. auth.models import Permission, User
2 from django, do import models
3

4 # Create your models here.
5

6 class CoursePack(models.Model);
7 user = models. Foreigntey(User, default=1, on. delete=models.CASCADE)
8 instructor = models. CharField(max_length=250)
9 course_title = models.fineField(max_length=160)
10 course_code = models.charField(max_length=160)
11 thumbnail = models.FileField(d)
12 is_favorite = models.BooleanField(default=False)
13

14 def _str_(self):
15 return self.course_title + ' - ' + self.instructor
16

17 class Podcast(models.Model):
18 course = models.Foreignkey(CoursePack, on_delete=models.CASCADE)
19 material_title = models.FileField(dfault=False)
20 material_title = models.RooleanField(default=False)
21 is_favorite = models.BooleanField(default=False)
22 def _str_(self):
23 class Video(models.Model):
24 class Video(models.Model):
25 class Video(models.Model):
26 class Video(models.Model):
27 class Video(models.Model):
28 class Video(models.Model):
29 video title = models.FileField(default=False)
30 video file = models.FileField(default=False)
31 is_favorite = models.BooleanField(default=False)
32 def _str_(self):
33 return self.video_title
```

```
Vitual-Classoom master > Votual-Classoom maste
```

```
Virtual-Classroom-master > Virtual-Classroom-master > lecture > ♦ urlspy > ...

1 from django.urls import re_path as url

2 from .import views

3

4 app_name = 'lecture'

5 urlpatterns = [

7 # /lecture/id

8 | /lecture/id

10 | # /lecture/id

11 |

12 | # /lecture/id

13 | # /lecture/id

14 | # /lecture/id

15 | # /lecture/id

16 | # /lecture/id

17 | # /lecture/id

18 | /lecture/id/Paccourse_ido[-0-]*)/favorite(5', views.favorite, name='favorite'),

19 | url(r'^daskcom/5', views.video, name='video'),

10 | url(r'^daskcom/5', views.video, name='desktop'),

10 | url(r'^daskcom/5', views.video, name='desktop'),

11 | url(r'^daskcom/5', views.video, name='video'),

12 | url(r'^acaluation/5', views.evaluation, name='collaboration'),

19 | url(r'^acaluation/5', views.evaluation, name='caluation'),

20 | url(r'^acaluation/5', views.evaluation, name='caluation'),

21 | url(r'n'approfile/5', views.profile, name='profile'),

22 | url(r'n'approfile/5', views.name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='name='n
```

```
from django.contrib.auth import authenticate, login
from django.contrib.auth import logout from django.shortcuts import render
from django.http import JsonResponse
from django.shortcuts import render, get_object_or_404
from django.db.models import C
from django.db.models import Q
from .forms import CoursePackForm, PodcastForm, UserForm
from .models import CoursePack, Podcast, Video, Pdf, Evaluation
from lecture.forms import EvaluationForm
AUDIO_FILE_TYPES = ['wav', 'mp3', 'ogg', 'mp4', 'pdf']
IMAGE_FILE_TYPES = ['png', 'jpg', 'jpeg', 'gif']
def create_coursepack(request):
    if not request.user.is_authenticated:
                             \label{form:coursePackForm} \mbox{form:= CoursePackForm(request.POST or None, request.FILES or None)} \\ \mbox{if form.is}\_\mbox{valid():} \\ \mbox{} 
                                          return render(request, 'lecture/create_coursepack.html', context)

₱ views.py 2 ×

                                              course.save()
return render(request, 'lecture/detail.html', {'course': course})
                              context = {
   "form": form,
   def delete_course(request, course_id):
    course = CoursePack.objects.get(pk=course_id)
    course.delete()
                 courses = CoursePack.objects.filter(user=request.user)
return render(request, 'lecture/index.html', {'courses': courses})
  def create_podcast(request, course_id):
    form = PodcastForm(request.POST or None, request.FILES or None)
    course = get object or 404(CoursePack, pk=course_id)
    if form.is_valid():
                               courses_podcasts = course.podcast_set.all()
for p in courses_podcasts:
    if p.material_title == form.cleaned_data.get("material_title"):
                                                          p.matext a_______
context = {
    'course': course,
    'form': form,
    'error_message': 'You already added that podcast',
                              return render(request, 'lecture/create_podcast.html', context)
podcast = form.save(commit=False)
podcast.course = course
                               pondast.rcurse = course
podcast.material_file = request.FILES['material_file']
file_type = podcast.material_file.url.split('.')[-1]
file_type = file_type.lower()
if file_type not in AUDIO_FILE_TYPES:
```

```
context = {
   'course': course,
                            'form': form,
'error_message': 'Podcast file must be MP4, MP3, or OGG',
                     return render(request, 'lecture/create_podcast.html', context)
             podcast.save()
return render(request, 'lecture/detail.html', {'course': course})
       context = {
   'course': course,
   'form': form,
       return render(request, 'lecture/create_podcast.html', context)
def podcasts(request, filter_by):
    if not request.user.is_authenticated:
                    podcast_ids = []
for course in CoursePack.objects.filter(user=request.user):
                       for podcast in course.podcast_set.all():
    podcast_ids.append(podcast.pk)
             users_podcasts = Podcast.objects.filter(pk_in=podcast_ids)
if filter_by == 'favorites':
    users_podcasts = users_podcasts.filter(is_favorite=True)
except CoursePack.DoesNotExist:
             | users_podcasts = []
return render(request, 'lecture/podcasts.html', {
    'podcast_list': users_podcasts,
    'filter_by': filter_by,
def delete_podcast(request, course_id, podcast_id):
    course = get_object_or_404(CoursePack, pk=course_id)
    podcast = Podcast.objects.get(pk=podcast_id)
    podcast.delete()
       return render(request, 'lecture/detail.html', {'course': course})
def favorite(request, podcast_id):
    podcast = get_object_or_404(Podcast, pk=podcast_id)
       try:
if podcast.is_favorite:
is_favorite
             podcast.is_favorite = False
else:
      podcast.is_favorite = True
podcast.save()
except (KeyError, Podcast.DoesNotExist):
    return JsonResponse({'success': False})
def favorite_course(request, course_id):
    course = get_object_or_404(CoursePack, pk=course_id)
       try:
    if course.is_favorite:
        is_favorite
       course.save()
except (KeyError, CoursePack.DoesNotExist):
   return JsonResponse({'success': False})
```

```
def index(request):
            if not request.user.is_authenticated:
                 return render(request, 'lecture/login.html')
                 courses = CoursePack.objects.filter(user=request.user)
podcast_results = Podcast.objects.all()
                  query = request.GET.get("q")
                     courses = courses.filter(
    Q(course_title_icontains=query) |
    Q(instructor_icontains=query)
                       podcast_results = podcast_results.filter(
    Q(material_title_icontains=query)
                       ).distinct()
return render(request, 'lecture/index.html', {
                            'courses': courses,
'podcasts': podcast_results,
                        return render(request, 'lecture/index.html', {'courses': courses})
       def detail(request, course_id):
    if not request.user.is_authenticated:
                  return render(request, 'lecture/login.html')
             course = get object_or_404(CoursePack, pk=course_id)
return render(request, 'lecture/detail.html', {'course': course, 'user': user})
def classroom(request):
              return render(request, 'lecture/classroom.html')
        def video(request):
            cap = cv2.VideoCapture(0)
fourcc = cv2.VideoWriter_fourcc(*'XVID')
out = cv2.VideoWriter('output.avi', fourcc, 20.0, (640,480))
              while True:
    ret, frame = cap.read()
                   out.write(frame) #saving
cv2.imshow('frame',frame)
             cap.release()
out.release() #saving
cv2.destroyAllWindows()
return render(request, 'lecture/video.html')
        def desktop(request):
             import numpy as np
from PIL import ImageGrab
              fourcc = cv2.VideoWriter_fourcc(*'XVID')
              out = cv2.VideoWriter("screen.avi", fourcc, 5.0, (1366, 760))
                  img = ImageGrab.grab()
                   img_np = np.array(img)
cv2.imshow("Screen", img_np)
out.write(img_np)
```

```
if cv2.waitKey(1) == 27:
          cv2.destroyAllWindows()
return render(request, 'lecture/desktop.html')
      def collaboration(request):
    return render(request, 'lecture/collaboration.html')
      def evaluation(request):
           return render(request, 'lecture/evaluation.html')
      def answer(request):
         print("Form submitted")
answer = request.POST["answer_area"]
          evaluation.save()
return render(request, 'lecture/evaluation.html')
          return render(request, 'lecture/profile.html')
      def logout_user(request):
          logout(request)
form = UserForm(request.POST or None)
250 def logout_user(request):
            logout(request)
            form = UserForm(request.POST or None)
                 "form": form,
           return render(request, 'lecture/login.html', context)
       def login_user(request):
          if request.method == "POST":
            username = request.POST['username']
password = request.POST['password']
                user = authenticate(username=username, password=password)
              if user is not None
                   if user.is active:
                       login(request, user)
courses = CoursePack.objects.filter(user=request.user)
return render(request, 'lecture/index.html', {'courses': courses})
                        return render(request, 'lecture/login.html', {'error_message': 'Your account has been disabled'})
           return render(request, 'lecture/login.html', {'error_message': 'Invalid login'})
return render(request, 'lecture/login.html')
       def register(request):
            form = UserForm(request.POST or None)
            if form.is_valid():
               user = form.save(commit=False)
               username = form.cleaned_data['username']
password = form.cleaned_data['password']
                user.set password(password)
               user.save()
user = authenticate(username=username, password=password)
```