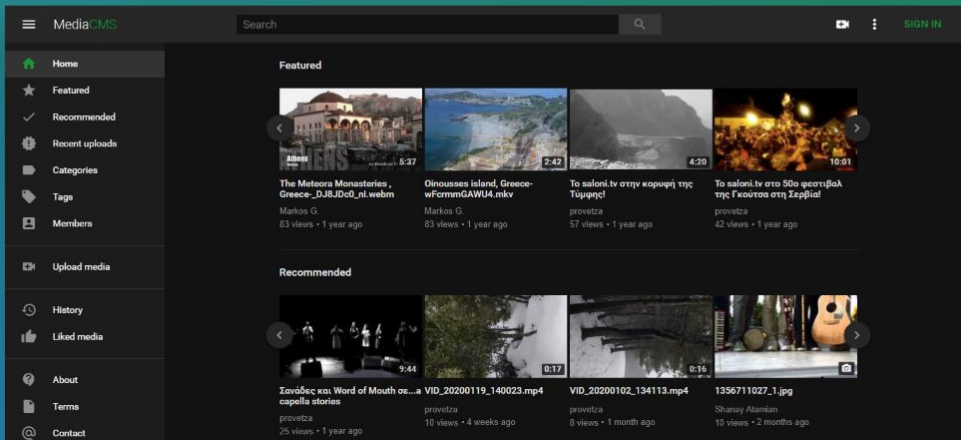


MediaCMS

Modern, fully featured open source
video and media CMS



whoami

- Software Engineer
- FOSS enthusiast
- Consultant for Six Feet Up - <https://sixfeetup.com>
- Member of Civic Information Office - <https://cvcio.org/>
- MediaCMS co-creator

MediaCMS

- Modern, fully featured video and media CMS
- Multiple media types support - Video, audio, image, pdf

Features

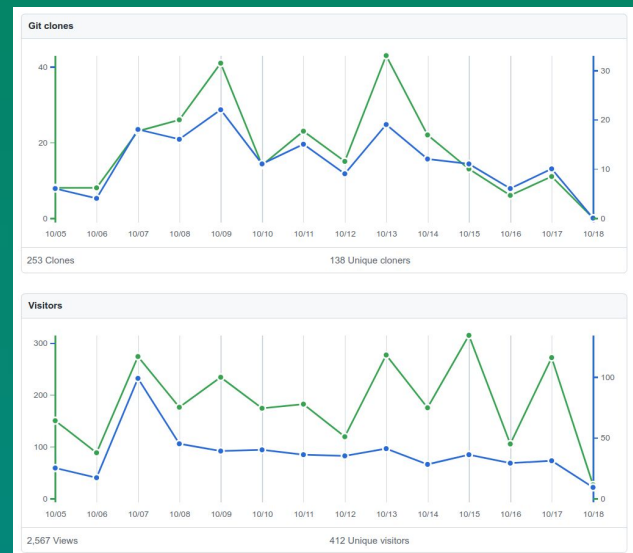
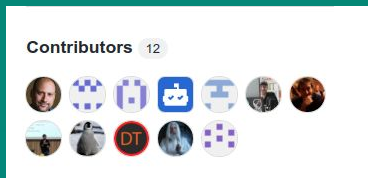
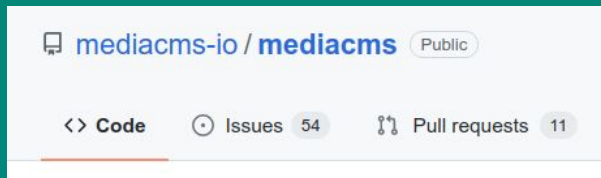
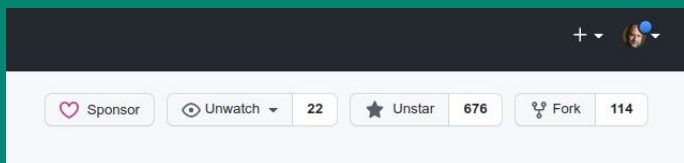
- handles the whole lifecycle of media files
- ingest (chunked upload, API)
- process/identify type
- make available for different devices (videos)

Features

- categorise, share, interact (like/comment/report)
- different workflows support
 - public
 - unlisted
 - private
- different groups (editors/managers/trusted users)

Project Status

- 1 year on Github, 2 years of development
- 3 production installations
- > 300 installations
 - based on the discussions + emails on support list
- GSoC participation + mentoring (2021)



DEMO

dark theme

web host cms

Search

Home

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Recommended

Recent uploads

Tags

Categories

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Upload media

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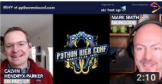


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admin
3 views • 16 hours ago




Python Web Conference 2021 Preview - Linda Calvin + Calvin...
admin
2 views • 16 hours ago




Python Web Conference 2021 Preview - Chrissy Wainwright + ...
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JWT Authentication with Django by Viral Parmar
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3 views • 18 hours ago




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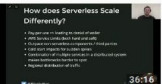
"Hacking Django Channels for Fun (and Profit)" by - Calvin Hendryx...
admin
1 view • 19 hours ago



Six Feet Up Twin Lakes Retreat 2021



Deploying a Machine Learning model using Serverless" by ...



Load Testing AWS Serverless Architectures with Serverless" by ...

responsive/mobile friendly

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CALVIN HENDRYX-PARKER PAOLO MELCHIORRE

PYTHON WEB CONF MARCH 22-26, 2021

Python Web Conference 2021 Preview - Paolo Melchiorre + Calvin Hendryx-Parker

17 views 3 3 SHARE DOWNLOAD

MG Published on Oct 5, 2021

We're gearing up for the Python Web Conference on March 22-26th, 2021. Grab your spot here: <https://pythonwebconf.com>

The 3rd annual Python Web Conf is a virtual event designed to promote best practices for hard web production problems. It features international experts presenting on 48 topics such as Django, Flask, Pyramid, Tornado, Plone, C/CD

Up next AUTOPLAY

How does Serverless Scale Differently? 36:16

'Load Testing AWS Serverless Architectures with Serverless' by ... MG 4 views

SkiJump-mvi_2528.avi 0:03

Christine Shaw O'Testy & Testerson, LLC 13 views

Python Web Conference 2021

Adaptive streaming (hls), multiple video profiles, related content

The screenshot shows a YouTube video player interface. At the top, there's a search bar and a navigation menu. The video title is "Python Web Conference 2021 Preview - Chrissy Wainwright + Calvin Hendryx-Parker". The video is organized by "six feet up" and sponsored by "Diamond Sponsor: AWS". The video features two speakers: Calvin Hendryx-Parker and Chrissy Wainwright. The video is 10:00 / 2:22 long. Below the video, there's a description: "We're gearing up for the Python Web Conference on March 22-26th, 2021. Grab your spot here: https://pythonwebconf.com". The video has 4 views. On the right, there's a list of related videos, including "Load Testing AWS Serverless Architectures with Serverless", "Jumpstart your Django Project with Cookiecutter", "Python Web Conference 2021 Preview - Meredydd Luff + Calvin...", "Six Feet Up Twin Lakes Retreat 2021", "Python Web Conference 2021 Preview - Linda Calvin + Calvin...", "Deploying ML Solutions With Low Latency In Python", "JWT Authentication with Django", and "Deploying a Machine Learning model using Serverless".

RSVP at pythonwebconf.com

Organized by: **six feet up**

Diamond Sponsor: **AWS**

CALVIN HENDRYX-PARKER
SIX FEET UP

CHRISSE WAINWRIGHT
SIX FEET UP

Python Web Conference 2021 Preview - Chrissy Wainwright + Calvin Hendryx-Parker

4 views

Published on Oct 5, 2021

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Up next

AUTOPLAY

'Load Testing AWS Serverless Architectures with Serverless' by...
admin
3 views

'Jumpstart your Django Project with Cookiecutter' by - Rob...
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2 views

Python Web Conference 2021 Preview - Meredydd Luff + Calvin...
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3 views

Six Feet Up Twin Lakes Retreat 2021
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2 views

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admin
2 views

'Deploying a Machine Learning model using Serverless' by -...
admin
3 views

'Dangers of the Python Standard Library' by Andrew Scott
admin
2 views

Download, embed, like, report, share actions

The screenshot shows a YouTube video player interface. The video title is "2021 Preview - Chrissy Wainwright + Calvin Hendryx-Parker". The video content includes a man (Calvin Hendryx-Parker) and a woman (Chrissy Wainwright) speaking, with a "PYTHON WEB CONF MARCH 22-26, 2021" logo in the center. An "Embed Video" dialog box is open on the right, showing the following code snippet:

```
<iframe width="560" height="315"
src="https://sfu.mediacms.io/embed?
m=iyMmqmaHt" frameborder="0"
allowfullscreen></iframe>
```

Below the code, the "EMBED OPTIONS" section includes a checkbox for "Keep aspect ratio" (unchecked). The "Width" is set to 560 px and the "Height" is set to 315 px. A "COPY" button is visible at the bottom right of the dialog.

At the bottom of the video player, there are interaction buttons: "Like" (1), "Dislike" (1), "Share", "Save", "Download", and a menu icon. The video progress bar shows 0:00 / 2:22.

Search

☰

six feet up

serverles

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📺

👤

🏠 Home

★ Featured

✓ Recommended

⚙️ Recent uploads

🏷️ Tags

📁 Categories

👥 Members

📺 Upload media

📺 My media

📁 My playlists


🕒 History

👍 Liked media

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9 results for "serverless"


FILTERS



Python Web Conference 2021 Preview - Paolo Melchiorre + Calvin Hendryx-Parker

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Python Web Conference 2021 Preview - Mark Smith + Calvin Hendryx-Parker

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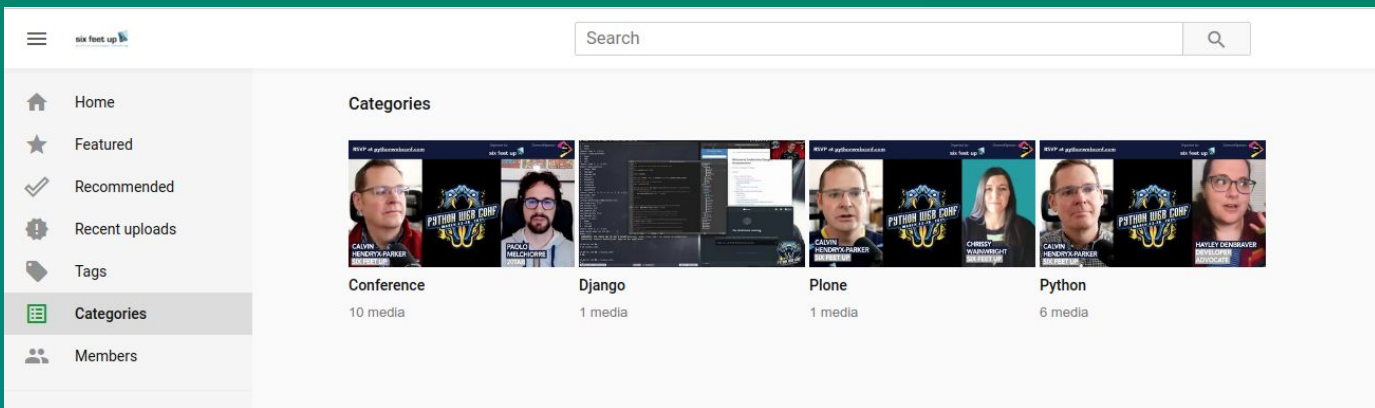
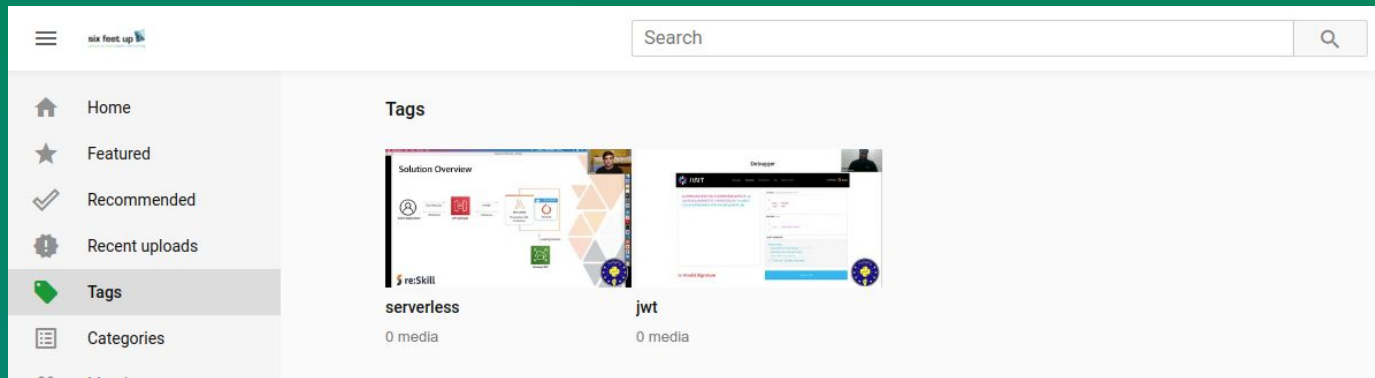


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Categories, tags



Playlists

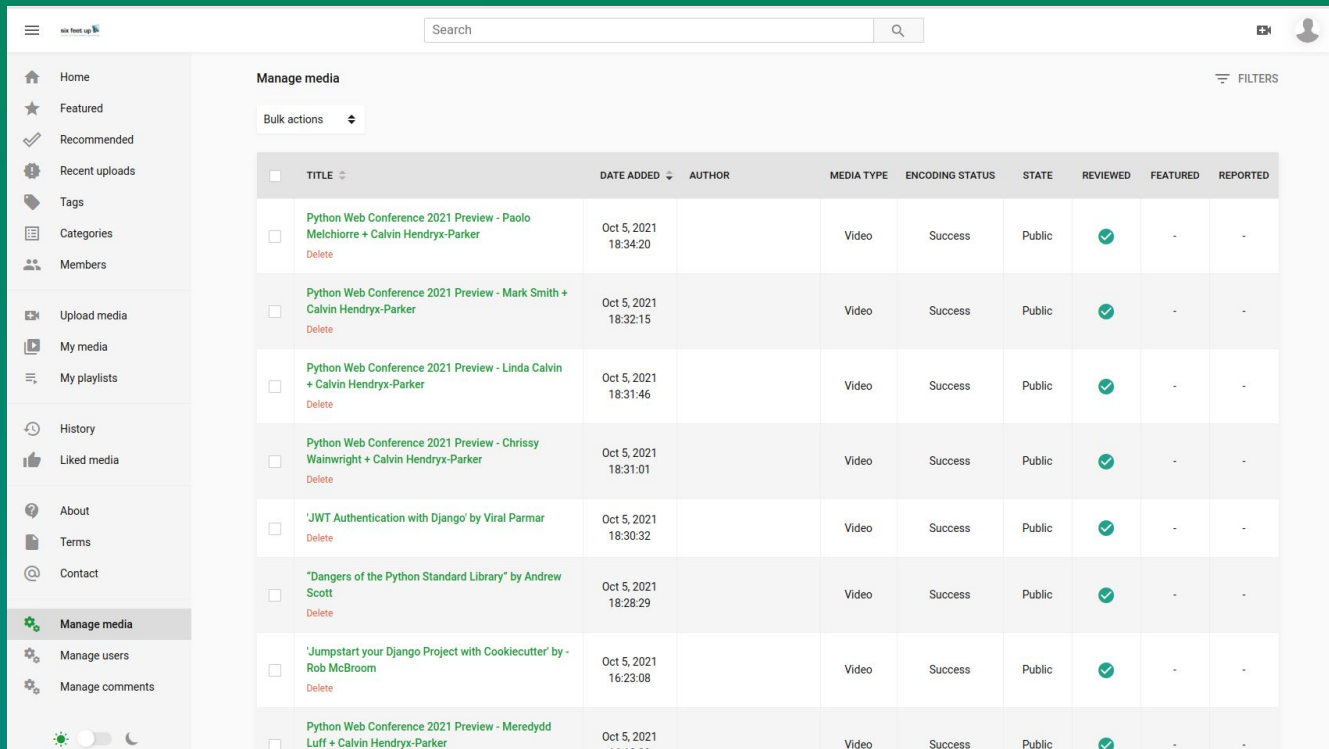
The screenshot displays the MediaCMS.io web interface. On the left is a sidebar with navigation links: Home, Featured, Recommended, Recent uploads, Tags, Categories, Members, Upload media, My media, My playlists, History, Liked media, About, Terms, Contact, Manage media, Manage users, and Manage comments. At the bottom of the sidebar are system status icons (green, grey, and moon). The main content area features a search bar at the top. Below it, a featured playlist titled 'Python Web Conference 2021' is shown, created on 6 October 2021, with 7 media items. The playlist is owned by 'admin' and has an 'EDIT' button. The playlist contains seven items, each a video preview from the Python Web Conference 2021, featuring various speakers and Calvin Hendryx-Parker. The items are numbered 1 through 7.

Python Web Conference 2021
7 media • Created on 6 October 2021

admin EDIT

- Python Web Conference 2021 Preview - Paolo Melchiorre + Calvin Hendryx-Parker
admin
- Python Web Conference 2021 Preview - Mark Smith + Calvin Hendryx-Parker
admin
- Python Web Conference 2021 Preview - Linda Calvin + Calvin Hendryx-Parker
admin
- Python Web Conference 2021 Preview - Chrissy Wainwright + Calvin Hendryx-Parker
admin
- Python Web Conference 2021 Preview - Meredydd Luff + Calvin Hendryx-Parker
admin
- Python Web Conference 2021 Preview - Mark Fister + Calvin Hendryx-Parker
admin
- Python Web Conference 2021 Preview - Hayley Denbraver + Calvin Hendryx-Parker
admin

Admin pages (users, media, comments)



The screenshot displays the 'Manage media' page in the MediaCMS admin interface. The page features a sidebar on the left with navigation links: Home, Featured, Recommended, Recent uploads, Tags, Categories, Members, Upload media, My media, My playlists, History, Liked media, About, Terms, Contact, Manage media (selected), Manage users, and Manage comments. The main content area has a search bar and a 'Bulk actions' dropdown. Below this is a table of media items with the following columns: TITLE, DATE ADDED, AUTHOR, MEDIA TYPE, ENCODING STATUS, STATE, REVIEWED, FEATURED, and REPORTED. The table contains 8 rows of data, each representing a video upload. Each row has a checkbox for selection and a 'Delete' link.

<input type="checkbox"/>	TITLE	DATE ADDED	AUTHOR	MEDIA TYPE	ENCODING STATUS	STATE	REVIEWED	FEATURED	REPORTED
<input type="checkbox"/>	Python Web Conference 2021 Preview - Paolo Melchiorre + Calvin Hendryx-Parker Delete	Oct 5, 2021 18:34:20		Video	Success	Public	<input checked="" type="checkbox"/>	-	-
<input type="checkbox"/>	Python Web Conference 2021 Preview - Mark Smith + Calvin Hendryx-Parker Delete	Oct 5, 2021 18:32:15		Video	Success	Public	<input checked="" type="checkbox"/>	-	-
<input type="checkbox"/>	Python Web Conference 2021 Preview - Linda Calvin + Calvin Hendryx-Parker Delete	Oct 5, 2021 18:31:46		Video	Success	Public	<input checked="" type="checkbox"/>	-	-
<input type="checkbox"/>	Python Web Conference 2021 Preview - Chrissy Wainwright + Calvin Hendryx-Parker Delete	Oct 5, 2021 18:31:01		Video	Success	Public	<input checked="" type="checkbox"/>	-	-
<input type="checkbox"/>	'JWT Authentication with Django' by Viral Parmar Delete	Oct 5, 2021 18:30:32		Video	Success	Public	<input checked="" type="checkbox"/>	-	-
<input type="checkbox"/>	"Dangers of the Python Standard Library" by Andrew Scott Delete	Oct 5, 2021 18:28:29		Video	Success	Public	<input checked="" type="checkbox"/>	-	-
<input type="checkbox"/>	'Jumpstart your Django Project with Cookiecutter' by - Rob McBroom Delete	Oct 5, 2021 16:23:08		Video	Success	Public	<input checked="" type="checkbox"/>	-	-
<input type="checkbox"/>	Python Web Conference 2021 Preview - Meredydd Luff + Calvin Hendryx-Parker Delete	Oct 5, 2021 16:18:29		Video	Success	Public	<input checked="" type="checkbox"/>	-	-

Use cases

Use cases: self host

- self host media content (video, images, audio, etc)

Use cases: self host

- create video/media portal
 - apply own style
 - add extra functionality
 - keep full control

Use cases: self host

- organizations
 - sensitive content/not to be uploaded to external sites

Use cases: self host

- example: schools, education.
 - Administrators keep what content is published
 - students are not distracted with advertisements and irrelevant content
 - ability to stream or download content

Use cases: media files repository

- example: use on an LMS to handle media files
 - out of the box embed media
 - implement search content + upload to MediaCMS (API)

Use cases: build a portal

- customize all things (URLs, logos, fonts, aesthetics)

Use cases: build a portal

- migrate content from older/legacy OSS software (eg mediacore/kaltura/mediagoblin)



Use cases: build a portal

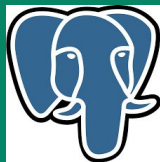
- example use: for conferences, vs uploading to Youtube
 - custom presentation/categorization
 - more control

Use cases: build a portal

- example use: scientific portal
 - with more options, as transcribe
- example use: VOD portal
 - stream content on demand
 - eg based on subscriptions

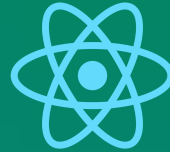
Tech

Tech Stack



Technology - architecture

- Python3/Django3: backend code
- React: user interface, frontend functionalities
- PostgreSQL: relational database
- Celery: task management (all type of asynchronous tasks)
- ffmpeg: video transcodings



Technology - architecture

- Redis: cache content, support Celery workers
- Nginx: web server
- uWSGI: python application server
- video.js: video player
- Bento4: HLS

Technology: Django + React

- both powerful and very modern technologies
- both very mature and widespread
- distinction of backend/frontend code allows for efficient collaboration between different teams

Tech notes

- design choice: zero time for getting familiar (inspired by Maternmost)
 - cannot afford a new/authentic design, better build something everyone is familiar rather than create something clunky
- project goals
 - easy installation/maintenance
 - easy to extend
 - not miss features form major services

Tech notes

- search uses **PostgreSQL FTS**
 - works great for small/mid cases, vs ElasticSearch

Tech notes

- recommendations
 - based on simple heuristics as same category/tag
 - configurable options (eg same author only)
 - collaborative filtering based
 - experimentation with word2vec and other ML models for

Swagger (Django drf-yasg)

The image displays a Swagger UI interface for a Django REST Framework API. The interface is organized into sections for different API endpoints. The top section shows endpoints for managing comments, media, and users. The 'Media' section is expanded, revealing a POST endpoint for adding new media. This endpoint has a description: 'Adds a new media, for authenticated users'. Below the description, there is a 'Parameters' section with a 'Try it out' button. The parameters are listed in a table with columns for 'Name' and 'Description'. The parameters are: 'media_file' (required, file type, form data), 'description' (string type, form data), and 'title' (string type, form data). Each parameter has a corresponding input field: a file upload button for 'media_file', a text input for 'description', and a text input for 'title'.

Name	Description
media_file <small>required</small>	media_file
file (formData)	<input type="button" value="Choose File"/> No file chosen
description string (formData)	<input type="text" value="description - description"/>
title string (formData)	<input type="text" value="title - title"/>

Rest API

Django REST framework

admin ▾

Media List / Media List

Media List

Media listings views

GET /api/v1/media/

HTTP 200 OK

Allow: GET, POST, HEAD, OPTIONS







Content-Type: application/json

Vary: Accept

```
{
  "count": 15,
  "next": null,
  "previous": null,
  "results": [
    {
      "friendly_token": "ba3X0ubv5",
      "url": "https://sfu.mediacms.io/view?m=ba3X0ubv5",
      "api_url": "https://sfu.mediacms.io/api/v1/media/ba3X0ubv5",
      "user": "admin",
      "title": "Python Web Conference 2021 Preview - Paolo Melchiorre + Calvin Hendryx-Parker",
      "description": "We're gearing up for the Python Web Conference on March 22-26th, 2021. Grab your spot here: https://pythonwebconf.com/\n--\r\n\r\n",
      "add_date": "2021-10-05T16:34:20+01:00",
      "views": 3,
      "media_type": "video",
      "state": "public",
      "duration": 267,
      "thumbnail_url": "https://sfu.mediacms.io/media/original/thumbnails/user/admin/0ef356758fee4bce9922dcd6d13d7557.Python_Web_Conference_2021_Preview_thumbnail.jpg",
      "is_reviewed": true,
      "preview_url": "/media/encoded/l/admin/0ef356758fee4bce9922dcd6d13d7557.tmpvgt292bb.gif",
      "author_name": "",
      "author_profile": "https://sfu.mediacms.io/user/admin/",
      "author_thumbnail": "https://sfu.mediacms.io/media/userlogos/user.jpg",
      "encoding_status": "success",
      "likes": 1,
      "dislikes": 0,
      "reported_times": 0,
      "featured": false,
      "user_featured": false,
      "size": "30.9MB"
    },
    {
      "friendly_token": "8h08U9fp9",
      "url": "https://sfu.mediacms.io/view?m=8h08U9fp9",
      "api_url": "https://sfu.mediacms.io/api/v1/media/8h08U9fp9",
      "user": "admin",
      "title": "Python Web Conference 2021 Preview - Mark Smith + Calvin Hendryx-Parker",
      "description": "We're gearing up for the Python Web Conference on March 22-26th, 2021. Grab your spot here: https://pythonwebconf.com/\n--\r\n\r\n",
      "add_date": "2021-10-05T16:32:15+01:00",
      "views": 3,

```

Dockerized setup, pre-commit, github actions

 docker-compose-dev.yaml
 docker-compose-http-proxy.yaml
 docker-compose-https-proxy.yaml
 docker-compose-letsencrypt.yaml
 docker-compose-named-volumes.yaml
 docker-compose.yaml

```
1 repos:
2   - repo: https://gitlab.com/pycqa/flake8
3     rev: 3.7.9
4     hooks:
5       - id: flake8
6   - repo: https://github.com/pycqa/isort
7     rev: 5.5.4
8     hooks:
9       - id: isort
10         args: ["--profile", "black"]
11   - repo: https://github.com/psf/black
12     rev: 20.8b1
13     hooks:
14       - id: black
15       language_version: python3
```

```
- name: Run Django Tests
  run: docker-compose -f docker-compose-dev.yaml exec --env TESTING=True -T web pytest

- name: Tear down the Stack
  run: docker-compose -f docker-compose-dev.yaml down
```

Documentation

Administrators documentation

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- 1. Welcome
- 2. Server Installaton
- 3. Docker Installation
- 4. Docker Deployment options
- 5. Configuration
- 6. Manage pages
- 7. Django admin dashboard
- 8. On portal workflow
- 9. On user roles
- 10. Adding languages for Captions and subtitles
- 11. Add/delete categories and tags
- 12. Video transcoding
- 13. How To Add A Static Page To The Sidebar
- 14. Add Google Analytics
- 15. Debugging email issues



MediaCMS Documentation

GitHub

Administrators

Add/delete categories and tags

Configuration

Debugging email issues

Django admin dashboard

Docker Deployment options

Docker Installation

Add Google Analytics

Management pages

On portal workflow

Server Installation

How To Add A Static Page To The Sidebar

Adding languages for Captions and subtitles

On user roles

Developers

Tutorial Intro

asioduasdasd

Configuration

Several options are available on `cms/settings.py`, most of the things that are allowed or should be disallowed are described there.

It is advisable to override any of them by adding it to `local_settings.py`.

In case of a the single server installation, add to `cms/local_settings.py`.

In case of a docker compose installation, add to `deploy/docker/local_settings.py`. This will automatically overwrite `cms/local_settings.py`.

Any change needs restart of MediaCMS in order to take effect.

Single server installation: edit `cms/local_settings.py`, make a change and restart MediaCMS

```
#systemctl restart mediacms
```

Docker Compose installation: edit `deploy/docker/local_settings.py`, make a change and restart MediaCMS containers

```
#docker-compose restart web celery_worker celery_beat
```

5.1 Change portal logo

Set a new svg file for the white theme (`static/images/logo_dark.svg`) or the dark theme (`static/images/logo_light.svg`)

5.1 Change portal logo

5.2 Set global portal title

5.3 Control who can add media

5.4 What is the portal workflow

5.5 Show or hide the Sign in button

5.6 Show or hide the Register button

5.7 Show or hide the upload media button

5.8 Show or hide the actions buttons (like/dislike/report)

5.9 Show or hide the download option on a media

5.10 Automatically hide media upon being reported

5.11 Set a custom message on the media upload page

5.12 Set email settings

5.13 Disallow user registrations from specific domains

5.14 Require a review by MediaCMS editors/managers/admins

5.15 Specify maximum number of media for a playlist

5.16 Specify maximum size of a media that can be uploaded

5.17 Specify maximum size of comments

5.18 How many files to upload in

DocuSaurus

Blog

MediaCMS.io 4 Followers Lists About

Aug 21

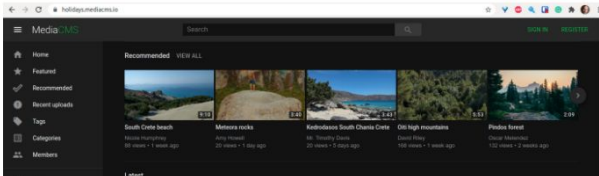
MediaCMS

MediaCMS.io
MediaCMS is a modern, fully featured open source video and media CMS —
<https://mediacms.io>

How to self-host and share your videos in 2021

Introduction

In this article, we will show how you can use open-source MediaCMS software to build a video portal in a few minutes that will allow users to upload their videos, categorize and tag them and make them available for streaming.

A screenshot of the MediaCMS web interface. The browser address bar shows 'localhost:mediacms.io'. The interface has a dark theme. On the left is a sidebar menu with options: Home, Featured, Recommended, Recent uploads, Tags, Categories, and Members. The main content area is titled 'Recommended' and 'VIEW ALL'. It displays a grid of five video thumbnails. Each thumbnail has a title, a duration, and a view count. The videos are: 'South Coast Beach' (1:33, 20 views), 'Medieval Castle' (1:33, 20 views), 'Kilbuckin South Coast Beach' (1:33, 20 views), 'Old High Mountains' (1:33, 100 views), and 'Pond View' (1:33, 100 views). Below the grid is a 'Latest' section.

Future dev

- Software internalization - add translations
- Block storage support (S3, Azure etc)
- live streaming
- subscriptions, payments
- analytics
- Provide great documentation - good way to get adoption

Future dev

- automatic categorization on images (based on CV)
- Software internalization - add translations
- Migrate content from Youtube and other platforms
- Extend notifications (upon all actions)
- Admin dashboards (eg tasks running)
- Encoding services integration (mux, AWS Elastic Transcoder)

Live demo

How to contribute

- backend/frontend engineering tasks
 - pick up any open ticket on the github repository
 - bring new functionality

How to contribute

- devops tasks
 - evaluate and optimize docker setup
 - stress test
 - help run on an number of environments
 - Pass, eg Heroku
 - Cloud, eg AWS/DigitalOcean
 - Kubernetes

How to contribute

- Technical writing
 - run a post/blog post/article
 - participate on discussions/issues
- UI/UX/design
 - prepare a logo
 - improve aesthetics

How to contribute

- Anyone
 - use the software
 - suggest project to organizations/others
 - star on Github / mention on social media

Questions

- <https://github.com/mediacms-io/mediacms>
- mgogoulos @ gmail.com