

Integrating COOL with Drupal

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Collabora
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Technical Day
COOL
days



Drupal



What is Drupal?

Drupal

- For developers
 - *“Drupal is the open-source CMS that helps you deliver ambitious, elegant, and performant digital experiences at scale.”*
 - Drupal.org





What is Drupal?

Drupal

- Drupal offers a flexible content structure
- Drupal is extensible with module
 - Allows to add features



COOL Integration



Integrating COOL

Documents

- Drupal allows to attach Media
- Media can be documents
 - Office
 - PDF



The stack

Drupal

- PHP with Symfony
- Twig for templates



Architecture

What do we need for the integration

- A way to display a file, ie COOL
- A way to load the file
- A way to authenticate



Display view

To display (view or edit inside a COOL frame)

- Create a view controller.
- Create a route. ``/collabora/view/{id}`` and ``/collabora/edit/{id}`` will be used:
 - Id is a file id.
- Create the twig template for the view.



To load (and save) the file

Loading the file: needs a WOPI host

- Create route for WOPI
 - ``/collabora/wopi/files/{id}``. Id is the same as for the view.
 - ``/collabora/wopi/files/{id}/contents``
- Create controller to handle the route
- The route will be the base for WOPISrc
- Saving will create a new revision



Authentication

Making sure you can view or edit the document

- The authentication token is passed to COOL. See view controller
- COOL will send the token to the WOPI host when loading or saving the file



Authentication (2)

The token

- COOL has no idea about it. It passes back.
- The WOPI controller we implement will verify the token
- We chose something stateless
 - It's easier to manage



Authentication (3)

The token

- Contain the id of the file
- Contain the id of the user
- Contain an expiry
- Contain whether it's a write permission
- Is signed

Spoiler: it's a JWT



JWT

The token

- So we create a JWT carrying all that info
- That can be passed as a string in an out
- It's per user, per file, per request
- The WOPI controller will check its signature (auth) and payload (credentials)



Drupal users

User permissions

- The user id in the token will be checked against the file permissions from Drupal
- It will also be used to present the user in the collaboration: user name, avatar, etc.

Showcase



+ Add media



Media name

Type

Published status

Language

Filter

<input type="checkbox"/>	Thumbnail	Media name	Type	Author	Status	Updated	Operations
<input type="checkbox"/>		LoremIpsumMS2010.docx	Document	hub	Published	03/27/2024 - 17:05	Edit
<input type="checkbox"/>		IntegrationArch.odg	Document	hub	Published	03/27/2024 - 16:00	Edit

- Edit
- View in Collabora Online
- Edit in Collabora Online
- Delete



Collabora test

Menu

View Edit Delete Revisions

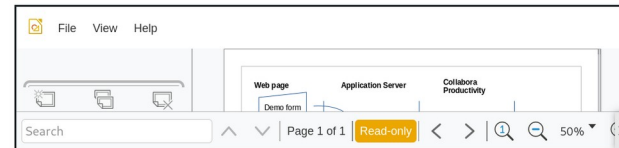
Home

BETA

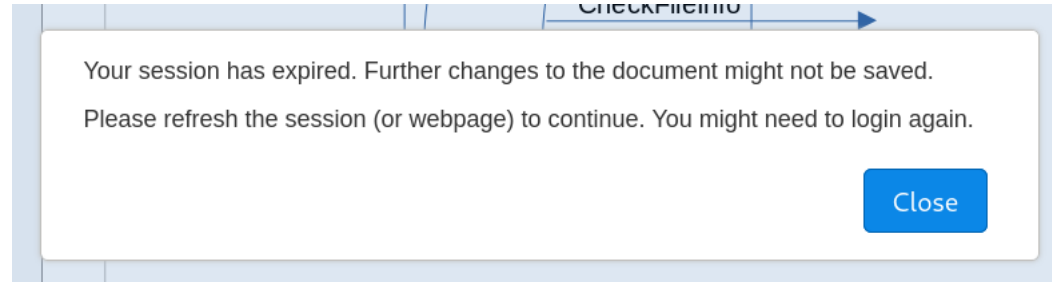
Architecture ☆

This document show the architecture of integration.

document



RSS feed





The code


Available on GitHub

- <https://github.com/CollaboraOnline/collabora-drupal/>
- MPL-2.0 licensed



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Thank you!

By Hubert Figuière



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