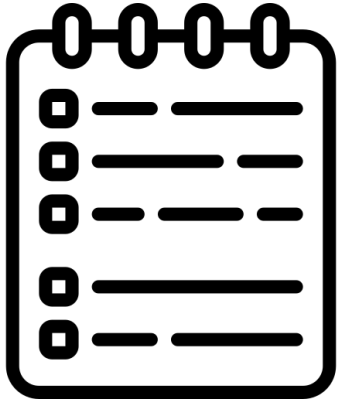
1 FEB 2025

FOSDEM'25 x XWIKI

LibreOffice-based document editing in XWiki through COOL

Lavinia Vitel



Agenda

#1 XWiki

#2 Demo

#3 Integration with COOL

- #3.1 WOPI protocol
- #3.2 Authentication
- #3.3 POSTMessage API

XWIKI

#1 XWiki

#1 XWiki

- knowledge management software
- wiki software, structured data, 1000+ extensions
- safe, scalable and reliable
- 20 years old company
- full set of professional services, offered to 800+ clients
- true open source - **all of our products are and always will be open source**

#2 Demo

Sandbox Test Page 1

Edit + Create Not set

Last modified by superadmin on 2025/01/28 16:18

Click on **"Edit"** and modify the contents of this page, then click on **"Save & View"** to see how they look like on your page!

Here's some dummy text to show you what the page looks like

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

0 Tags: [+] Created by superadmin on 2025/01/28 16:18

Comments (0) Attachments (0) History Information

No comments for this page

Comment

Comments (0) | Attachments (1) | History | Information

Entries 1 - 1 out of 1 per page of 5 page 1

Type	Name	File size	Date	Posted by	Actions
	myFile.odt 1.1	0 bytes	2025/01/31 07:14	Lavinia Vitel	Move Delete Collabora

Entries 1 - 1 out of 1 per page of 5 page 1

Attach files to this page

Browse... No file selected.

New office file

FILE TYPE

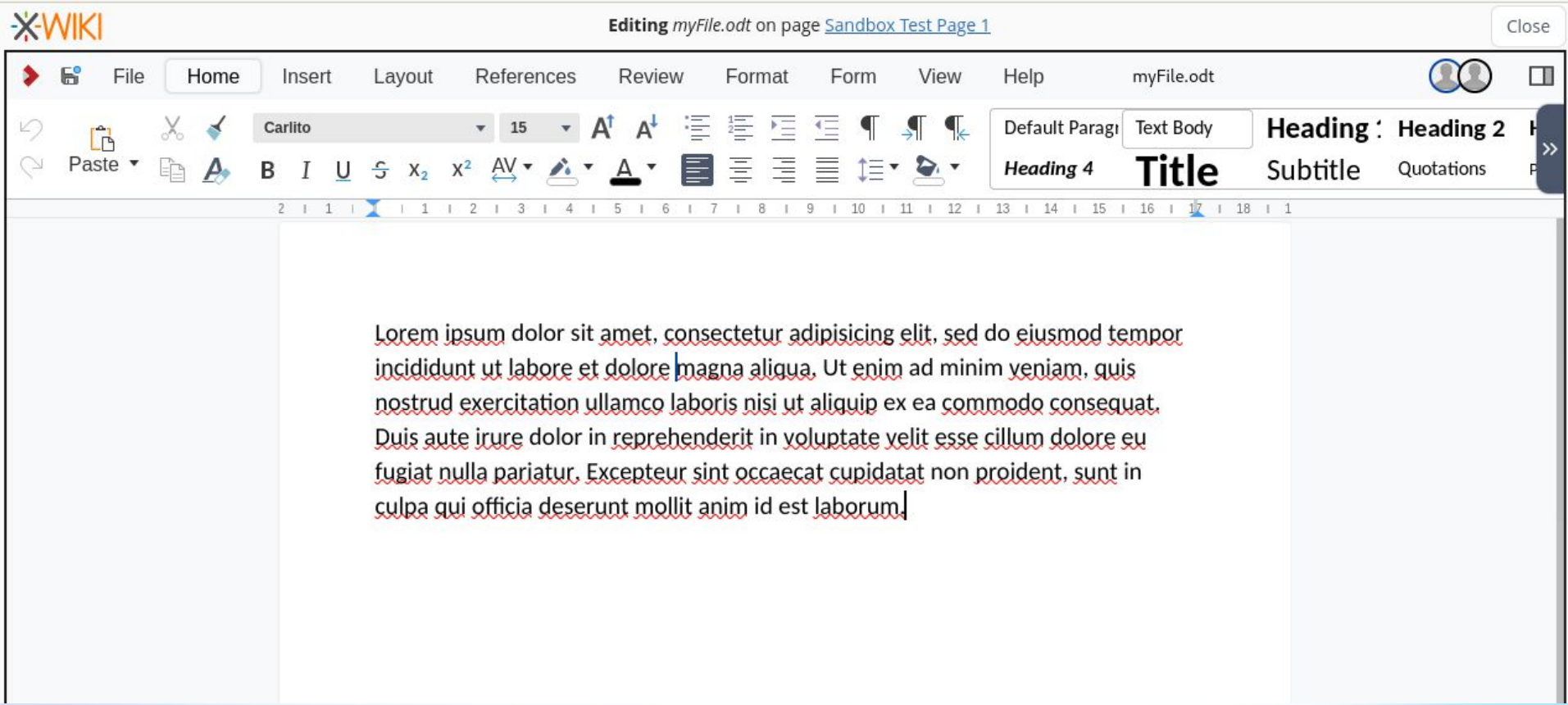
Document

FILE NAME

.odt

Create and edit file

Cancel


XWIKI
Editing myFile.odt on page Sandbox Test Page 1
Close
File
Home
Insert
Layout
References
Review
Format
Form
View
Help
myFile.odt
Paste
Carlito
15
Default Paragr
Text Body
Heading 1
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Heading 4
Title
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Quotations
Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

#3 Integration with COOL

#3.1 WOPI protocol

- **Set up a WOPI protocol** - REST endpoints for exposing file information
- **WOPI discovery** - add discovery.xml file to iframe to provide information about the capabilities the web application exposes (provided by COOL)
- **Set up the host page -** iframe where the editing UI and the document itself will be present.
- **PostMessage API -** interact with the iframe

#3.1 WOPI protocol

- **GetFile** - retrieve file
- **PutFile** - update a file's binary contents.
- **PutRelativeFile** - creates a new file on the host based on the current file - Save as action
- **CheckFileInfo** - returns information about a file

#3.2 Authentication

- Access token is created and stored by XWiki
- Token is unique for the user, expires and the access is denied with wrong authentication token
- Used on requests

```
GET
https://<WOPI host URL>/<...>/wopi/files/<id>/contents?
access_token=<token>
```

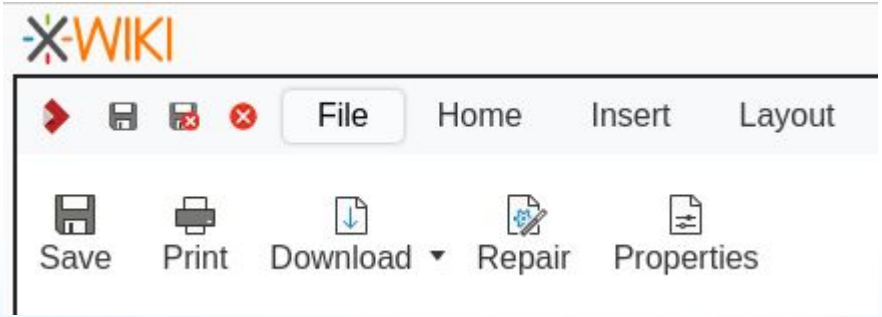
#3.3 PostMessage API

- The Web Messaging protocol lets Office for the web frame communicate with its parent host page, and vice-versa.

```
{
  "MessageId": "<MessageId>",
  "SendTime": "<Timestamp when message is sent>",
  "Values": {
    "<key>": "<value>"
  }
}
```

#3.3 PostMessage API - use cases

- Token renew - rely on the Doc_ModifiedStatus message to know when to verify if token has expired and renew it if possible
- UI changes (not released) - add *Save and exit* and *Close editor* buttons



#4 Future work

- Make save and exit more intuitive
- Better token management

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Thank you everyone!

See you at the **K1-B-3 stand**

www.xwiki.org