

# Wittyshare

Raphaël Bauduin - Benoît Daccache - Guy De Leeuw

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Overview

Content

Software Components

TODO

# Philosophy

- ▶ Filesystem based
  - ▶ Content
  - ▶ Access Rights
  - ▶ Configuration
  - ▶ Translations (not yet implemented)
  - ▶ Versioning (not yet implemented)
- ▶ Avoid Database use
  - ▶ Except for search (MnoGoSearch)
- ▶ Modular

# Content Structure

- ▶ Content's Root dir
  - ▶ .config
  - ▶ Directory1
    - ▶ .config
    - ▶ page1.fhtml
    - ▶ fragment.fhtml
  - ▶ homepage.fhtml

## .config

- ▶ properties: Configuration of the directory
  - ▶ in\_parent
  - ▶ in\_menu
  - ▶ groups
  - ▶ ...
- ▶ Optionally one config per content file
  - ▶ same name as content file, with .json appended
  - ▶ in\_menu
  - ▶ i18n attributes

# Filesystem structure

- ▶ access rights inheritance
  - ▶ on
  - ▶ off
    - ▶ overwrite per node possible

# FsDaemon

- ▶ Scans all content and associated config
- ▶ Gives view adapted to user
  - ▶ MenuTree
  - ▶ FileSystem Tree
  - ▶ Search results
- ▶ Can be notified by FAM when file changes
- ▶ Separate process
- ▶ Update to the fsdaemon's tree: trees are enqueued and removed when unused
- ▶ Freeze content option
- ▶ Can be “internalised”

# Communication

- ▶ Using zeromq
- ▶ Json messages
  - ▶ MenuTree
  - ▶ Permissions on node
  - ▶ Search request
  - ▶ ...



# Search

- ▶ MnoGoSearch
- ▶ Indexes content we configure
  - ▶ html/fhtml
  - ▶ txt
  - ▶ ODF
  - ▶ PDF
- ▶ Uses sqlite
- ▶ Filter results according to access rights
  - ▶ send search request to fsdaemon
  - ▶ fsdaemon uses mnogosearch index to get results
  - ▶ for each result, validate access
  - ▶ return filtered results list

# Contents

This content can be displayed in the browser:

- ▶ .fhtml
- ▶ .odf
- ▶ .pdf (not yet done)

# Download content

- ▶ Download folder
  - ▶ respecting access rights
  - ▶ zip or tgz
  - ▶ including subfolder or only direct children

# Modules

- ▶ Modules can easily be developed
- ▶ Currently:
  - ▶ zip (folder download)
  - ▶ latest news
  - ▶ ODF

## Libraries used

- ▶ jsoncpp
- ▶ Gamin
- ▶ libarchive
- ▶ Omq
- ▶ MnoGoSearch
- ▶ odf.js

## What's still needed

- ▶ Menu
- ▶ Integrating search
- ▶ Testing and problem fixing (eg breadcrumb of doxygen docs dropped in content)
- ▶ Documenting (restructure what we have)