Petal
An in-browser editor for LwDITA

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Charaf Eddine Cheraa

charaf@evolvedbinary.com

@ccheraa

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Charaf Eddine Cheraa

- **Engineer @Evolved Binary**

- **Web Developer (since 2009)**
  - React / Angular / Vue
  - PHP / NodeJS / GraphQL
  - SQL / Mongo

- **Develops also using (since 2007)**
  - Flutter / React Native / Cordova
  - Delphi / Visual Studio
  - Game Maker Studio / Unity 3D

- **Core Contributor to FusionStudio**

- **Loves programming and spoken languages**

- **Reach me at: charaf@evolvedbinary.com**

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In-browser editors

- **High availablility of HTML5 Editors**

- **Options for Markdown and reStructuredText**

on the other hand, for XML:

- **Lack of editors**

- **Existing commercial and/or enterprise editors are very comprehensive and complex**

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Why?

- **The complexity of offering a full XML editor**

- **A decrease in XML processing support within browsers**

- **A perceived reduction in what constitutes an acceptable level of re-use and presentation for technical documentation.**

Our suggestion:

- For the purposes of authoring and publishing the documentation for FusionDB Server, we need a markup format that's good (as XML), but not complex (as XML).

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DITA

DITA is an XML data model for authoring and publishing.
It is an open standard that is defined and maintained by the
OASIS DITA Technical Committee.

But it's too complex for our needs.

Light Weight DITA

LwDITA is a simplified version of DITA. It has a smaller element
and attribute set, strictier content models, and a reduced feature
set. LwDITA also defines mappings between XML, HTML5, and
Markdown, enabling authoring, collaboration, and publishing
across different markup languages. (more info)

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LwDITA representation forms

- **XDITA (XML)**

- **HDITA (HTML)**

- **MDITA (Markdown)**

And we want to add a new one:

- **JDITA (JSON)**

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JDITA

JDITA is a JSON representation of an LwDITA document.

Its main purpose is to make it easy to process and generate LwDITA content using modern web technologies.

Thus providing LwDITA capabilities to a wider range of users.

With the help of JDITA, we can make an in-browser editor for LwDITA.
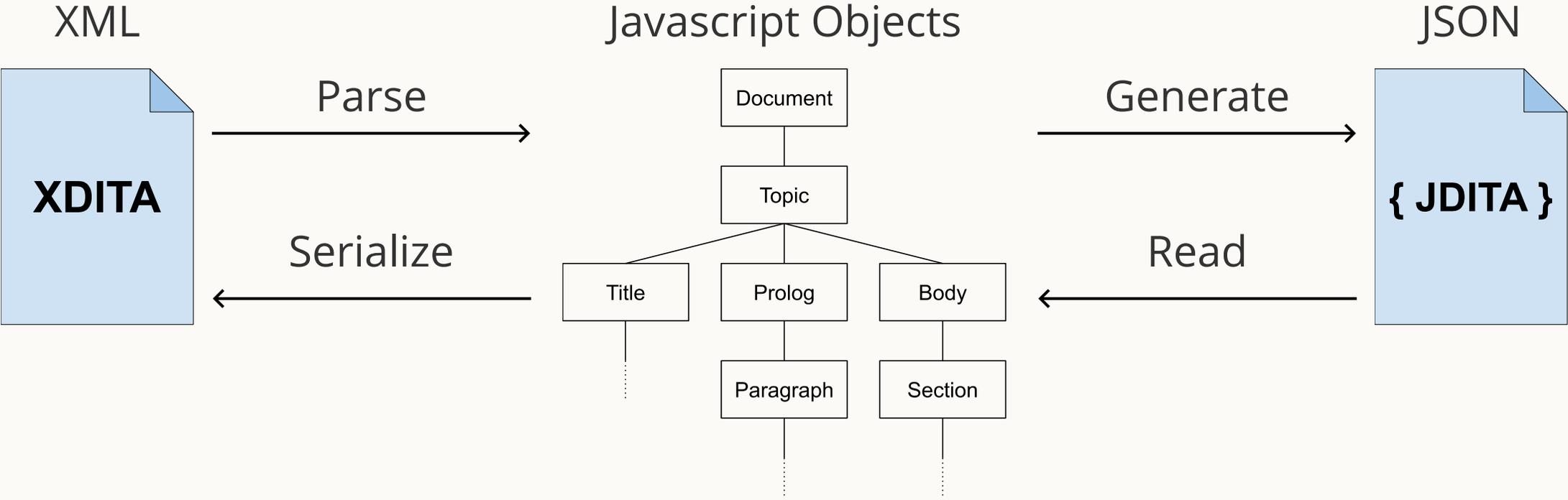
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Petal

Is a WYSIWYG editor aiming to make use of JDITA and Prosemirror to create and edit LwDITA documents on the web. This project is divided into 2 packages:

- **jdita:**
  - Parses XDITA documents and produces JDITA Documents, and vise-versa.

- **prosemirror-jdita**
  - Creates Prosemirror documents from JDITA and sets up an Editor to edit the contents on a web page.

prosemirror-jdita

- **Generates a schema containing the definition for all LwDITA elements, the relation between them, and how to properly display them on a web page.**

- **Uses a JDITA document to create a Prosemirror document**

- **Defines different commands for the editor, mainly for inserting, editing, and transforming content.**

- **Generates a JDITA document from the content of the editor (Prosemirror document).**

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Petal, The editor

Petal allows the user to:

- **See a readable HTML representation of the document**

- **Edit the text**

- **Insert new elements**

- **Transform content**

- **Edit attributes**

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Demo

Petal - in-browser LwDita Editor

Programming Light Bulbs to a Lighting Group

You can program one or more light bulbs to a lighting group to operate that group with your remote control.

Your [product-name] remote control can manage up to 250 network light bulbs on the same lighting network. When you add a light bulb to the network, you can program it to one or more lighting groups. You must assign a light bulb to at least one lighting group to operate that light bulb A network light bulb that is not programmed to a lighting group will still operate when controlling all network light bulbs from the remote control.

Thank you

- **More...**

  - This presentation: https://slides.com/adamretter/petal-lwdita-editor

  - Demo: https://petal.evolvedbinary.com

  - Charaf Eddine Cheraa charaf@evolvedbinary.com

  - LwDITA specifications http://docs.oasis-open.org/dita/LwDITA/v1.0/cnprd02/LwDITA-v1.0-cnprd02.html

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