TYPO3

Structured Content Initiative

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Lidia Demin & Annett Jähnichen

slack

#cig-structuredcontent

Agenda

1. What is the Structured Content Initiative about?
2. Content Block Registration API
3. Page Module Pilot
4. Dynamic Grid

1. What is the Structured Content Initiative about?

Goals

- Improvement of UX for editors
- Improvement of integration of new/ custom content elements for integrators

The members

Active members

Lidia Demin
Lead
Content Block API
Dynamic Grid

Rachel Foucard
Co-Lead
Page Module
Dynamic Grid
UX Initiative bridge

André Kraus
Content Blocks API

Annett Jähnichen
Page Module
Content Blocks API

Jonas Eberle
Page Module
Content Blocks AP

Paul Hansen
Page Module
Accessibility bridge

Supporters

Benni Mack
Product Team bridge

Oliver Hader
Product Team bridge

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2. Content Block Registration API

Content Block Registration API

The motivation:

“Defining ‘Content Elements’ in TYPO3 can be hard and the learning curve is steep. You need to learn PHP, TCA, TypoScript and Fluid and maybe other languages.”

What is a content block?

“A content block is defined as ***a small chunk of information****, which is connected to a view and then rendered in the TYPO3 frontend.”*

Content Block Registration API

TYPO3

Main Goals:

- Main goal: provide an easy and reliable way to register content blocks
- Main target group: integrators, TYPO3 newcomers

Content Block Registration API

Concept for content block registration:

- *a separate composer package*
- custom composer installer to place inside *typo3conf/contentBlocks/*
- *composer and non-composer* mode

Content Block Registration API

- ***EditorInterface.yaml***
- heavily inspired by the Symfony field types
- ***Field types in editing interface != field types in DB***
- All configuration required by TYPO3 is generated during registration process

Content Block Registration API

Advantages

- Simplifies the registration process
- GUI for Content Block creation
- Eases up the learning curve for beginners
- Usage of TYPO3 core APIs under the hood

Content Block Registration API

Current state

- **EXT:contentblocks_reg_api** v1 as POC
- Simple GUI for creating content blocks
- Documentation in RST format
- Version 2 in progress
  - Stores data by extending tt_content
  - TODO: PHP 8 compatibility, re-testing with languages and workspaces

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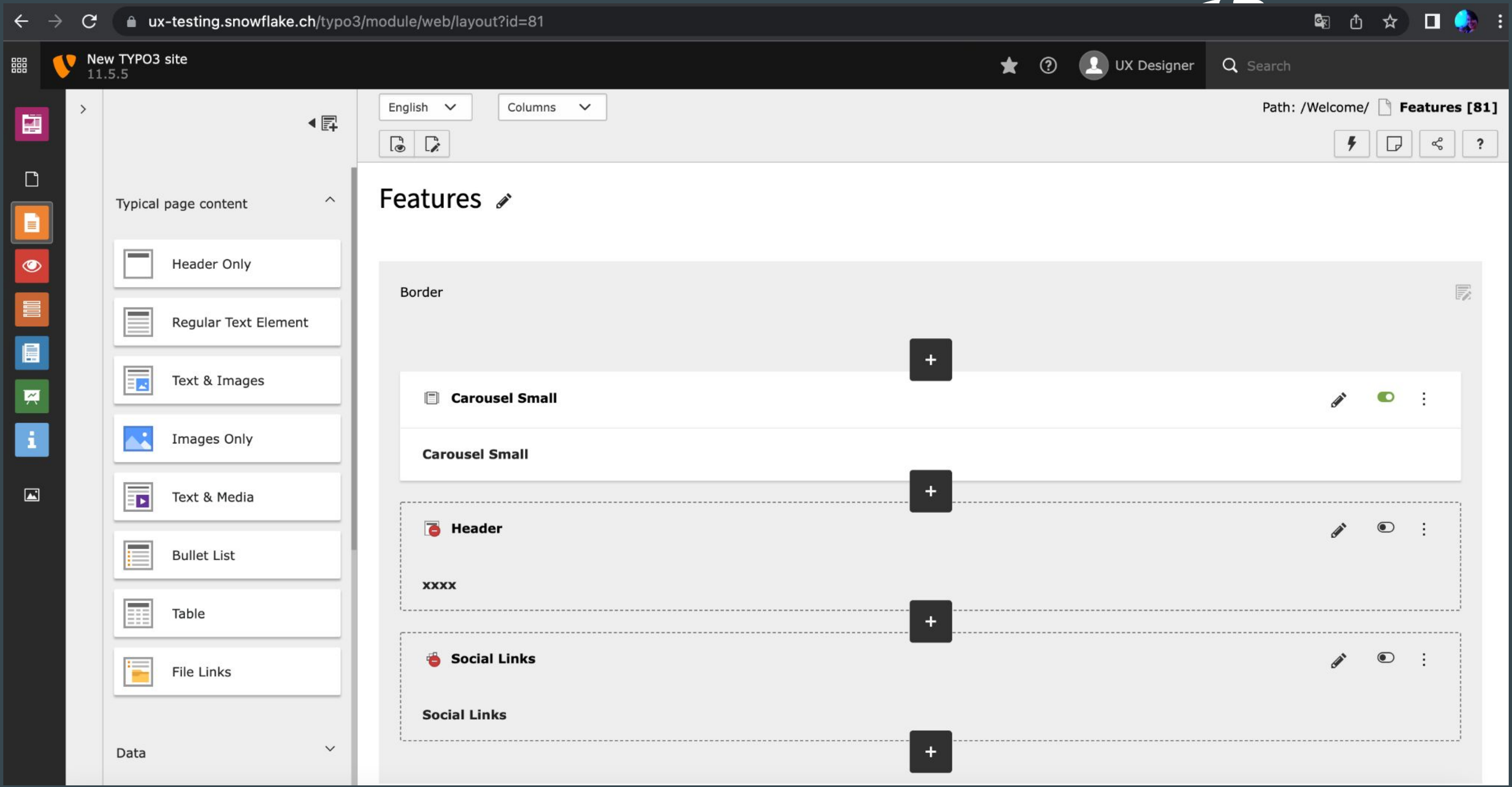
3. Page Module Pilot



Features

Border

Carousel Small

Carousel Small

Header

xxxx

Social Links

Social Links

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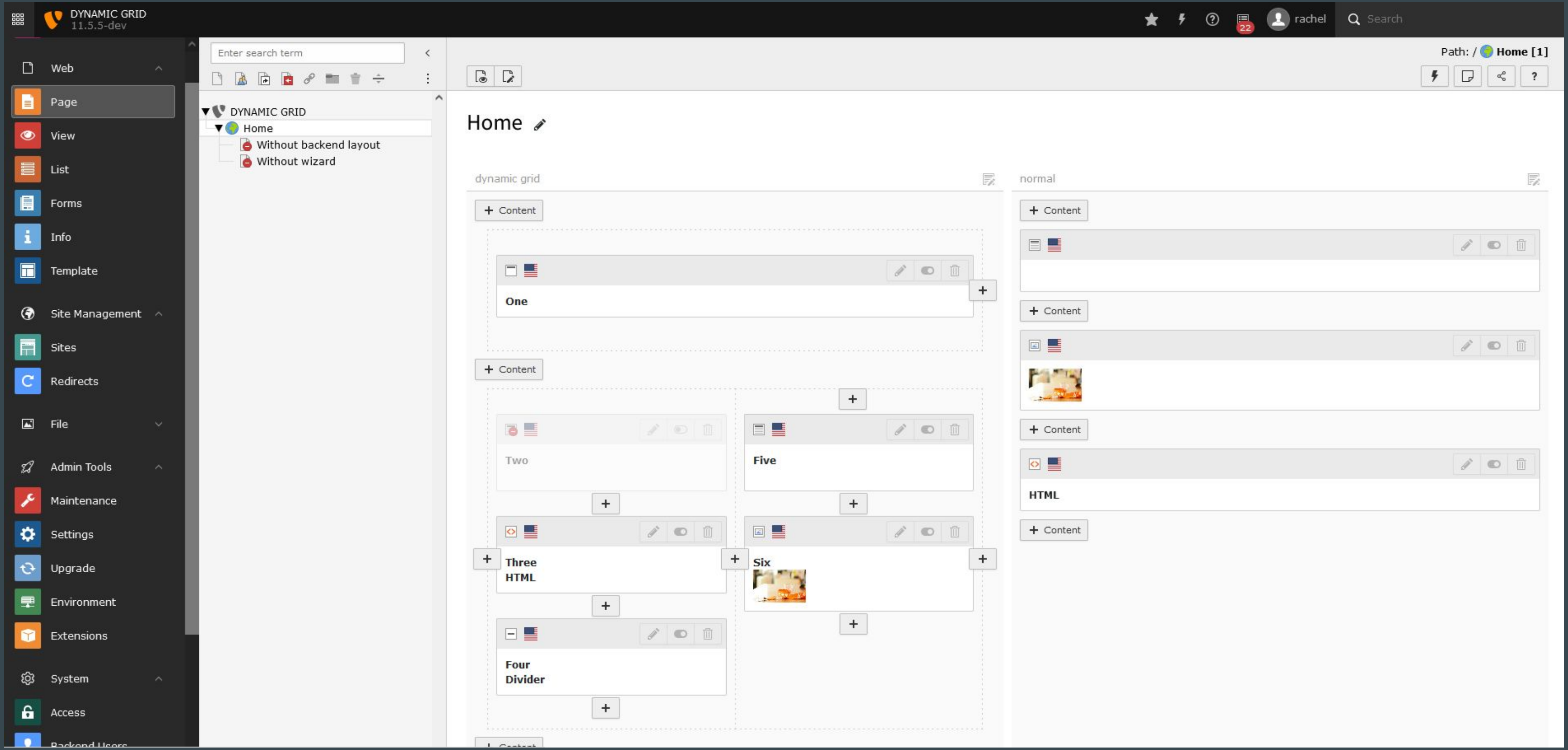
4. Dynamic Grid

Dynamic grid



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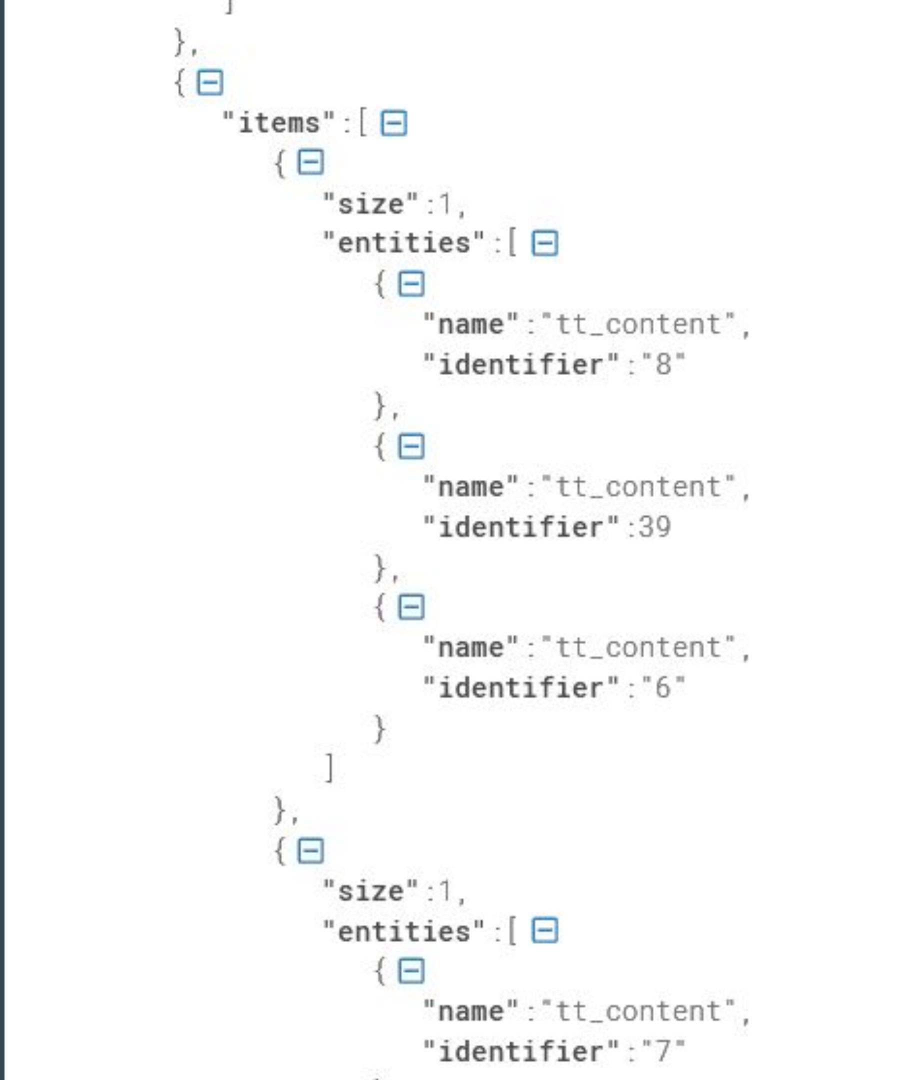

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Dynamic Grid

- Grid structure as JSON in page property
- CSS Grid for graphical representation backend
- Middleware to integrate JavaScript
- XClasses and Hooks to process positioning of new content in the grid

Dynamic Grid

Xclasses:

- GridColumnItem extends \TYPO3\CMS\Backend\View\BackendLayout\Grid\GridColumnItem
  - Generates URLs for new content element creation passing the grid placement as parameter
- NewContentElementController extends \TYPO3\CMS\Backend\Controller\ContentElement\NewContentElementController
  - Override the prepareWizardContent method to pass the grid placement parameter to the new content editing interface

Hooks:

- DataHandlerHook::processDatamap_afterDatabaseOperations
  - Updates the dynamic grid json in the page properties

Stay tuned

You find us on:

- Communication over TYPO3 SLACK: #cig-structuredcontent
- Official Initiative page: https://typo3.org/community/teams/typo3-development/initiatives/structured-content
- GitHub:
    - https://github.com/TYPO3-Initiatives/content-block-registration-api
    - https://github.com/TYPO3-Initiatives/structured-content-page-module
    - https://github.com/TYPO3-Initiatives/dynamic-grid