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Rebuilding the Devcon 2023 Call For Papers form using Content Pages & Objects

Leveraging low-code and no-code capabilities to unlock endless possibilities

Context

The way we implement solutions that help users interact with data is evolving to make it faster, richer, more simple and scalable.

Our Strategy

We're pushing hard on making it **easier** and **faster** to work on the different layers of business processes implementation, unlocking unlimited value and possibilities for our customers.

Composable approach:

- **Objects** as low-code entities management
- **Headless API** as 2-way communication
- **Page Builder** to enable rich, user friendly experiences to interact with those business processes.

That's great.
But how does it work?

What do we want to build?

- Allow users to submit one or more Call for Papers in our DevCon website.
- Call for Papers have statuses to better control requests process.
- We want to provide users with a richer experience, helping them get ideas by showing them a list of the latest DXP features released in the same submission page.
- As well, we want to provide users with travel guidance to Porto to better prepare their travel.
- Admin users will be able to:
 - Review all submitted Call for Papers
 - interact with the Paper submitters
 - Accept/reject them.

Done!

Liferay DEVCON

DEVCON 2023 CALL FOR PAPERS MY DEVCON PAPERS

23-25 MAY 2023
ALFÂNDEGA CONGRESS CENTER
PORTO, PORTUGAL

DEVCON 2023

The largest gathering of Liferay Developers across the world. Get ready to connect, learn and exchange information with your peers in the beautiful city of Porto.

SAVE YOUR SPOT!

Done!

DevCon Calls for Papers

Liferay

DevCon Calls for Papers DevCon Site

Papers Pending to Review

Title	Submitter	Country
How to rebuild the Devcon 2023 Call For Papers form using Application Pages & Objects	Mateo Hermosín	Spain

All Call for Papers

Title	Submitter	Status
Bringing low-code to the Frontend Dataset: the Dataset View Management App	Pablo Agulla	Approved
How to rebuild the Devcon 2023 Call For Papers form using Application Pages & Objects	Mateo Hermosín	Request sent
How to implement your design system in Liferay Experience Cloud using Clay	Evan Thibodeau	Approved
Headless: Present and Future	Alex Tardín	Approved
Forget Liferay. Use Liferay instead.	Fernando Fernandez	Rejected

How????



No-code!!!



How?

Business Layer

Data Modelling - Objects

Actions

Validations

Status Flow

Permissions

Experience Layer

Content Pages

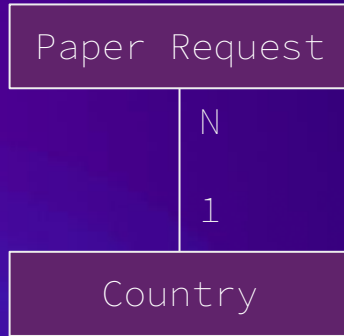
Form Container

Form Fragments

Collection Displays

Step 1 – Business Layer (1)

Data Modelling - Objects



For each Country, we will provide “Travel to Porto” information available for the user.

Label	Type	Mandatory
Title	Text	Yes
Abstract	RichText	Yes
Presenter Name	Text	Yes
Presenter Bio	LongText	No
Topic	MultiselectPicklist	No
Paper Status	Picklist	Yes
Presenter Country	Relationship	No
Year	Picklist	No
Presenter email	Text	Yes

Country	Text
Travel Guide	Attachment
Passport	Text
Mask	Text

Picklists

- Topic: Objects, Low Code, Theming, Client Extensions, etc
- Request Status: Request sent, Approved, Rejected

Step 1 - Business Layer (2)

Actions

Label	Description
Approval Action	Standalone action to trigger Call for Paper approval
Approval notification	Send an email every time a Paper Request is moved to Approved status
Rejection action	Standalone action to trigger Call for Paper rejection

When Standalone

Then Update an Object Entry

Values

Field	Input Method	New Value
Paper Status *	<input type="checkbox"/> Input as a value.	"Approved"

When On After Update

Condition

Enable Condition

Expression Builder

paperStatus == "Approved"

Use expressions to create a condition. Click on the button to expand the expression input area.

Then Notification Call for Paper approved

Step 1 - Business Layer (3)

Validations

Label	Type
Email validation	Expression Builder

Expression Builder ?

- `isEmailAddress(presenterEmail)`

Error Message

Message *

Please enter a valid email

Step 1 – Business Layer (3)

Request Status Flow

Paper Status Settings

Select the State Flow

State Name	Next Status
<input type="text" value="Request sent"/>	<input type="text" value="In review"/> <input type="button" value="X"/> <input type="button" value="⊗"/>
<input type="text" value="In review"/>	<input type="text" value="Approved"/> <input type="button" value="X"/> <input type="text" value="Rejected"/> <input type="button" value="X"/> <input type="button" value="⊗"/>
<input type="text" value="Approved"/>	<input type="text" value="Choose an Option"/>
<input type="text" value="Rejected"/>	<input type="text" value="Choose an Option"/>

Step 4 – Business Layer (4)

Permissions

Attendee Role

- Can send Calls for Papers
- Can see ONLY the Calls for Papers submitted by himself.
- Can't change status

Organizer Role (backoffice)

- Can see ALL the Calls for Papers.
- Can change status

Key insight: Users creating an object entry, automatically get permissions over it individually.

The screenshot shows two tables of permissions for 'PAPER REQUESTS'. The first table, titled 'PAPER REQUESTS', has three rows: 'Action' (unchecked), 'Add Object Entry' (checked), and 'Permissions' (unchecked). The second table, titled 'PAPER REQUEST', lists various actions with checkboxes: 'Action', 'action.approvalAction', 'action.rejectionAction', 'Add Discussion', 'Delete', 'Delete Discussion', 'Permissions', 'Update', 'Update Discussion', and 'View'. All checkboxes in the second table are currently unchecked.

PAPER REQUESTS	
<input type="checkbox"/>	Action
<input checked="" type="checkbox"/>	Add Object Entry
<input type="checkbox"/>	Permissions

PAPER REQUEST	
<input type="checkbox"/>	Action
<input type="checkbox"/>	action.approvalAction
<input type="checkbox"/>	action.rejectionAction
<input type="checkbox"/>	Add Discussion
<input type="checkbox"/>	Delete
<input type="checkbox"/>	Delete Discussion
<input type="checkbox"/>	Permissions
<input type="checkbox"/>	Update
<input type="checkbox"/>	Update Discussion
<input type="checkbox"/>	View

Experience layer



Step 2 - Presentation Layer

Experience

Content Pages!

The screenshot shows a web page for 'DevCon Call for Papers'. At the top, there is a navigation bar with 'Liferay DEVCON', 'DEVCON 2023', 'CALL FOR PAPERS', and 'MY DEVCON PAPERS'. The main heading is 'DevCon Call for Papers'. The page is divided into two main sections: a form on the left and a content area on the right.

Form Section: Submit your Call for Paper

- Title ***: A text input field with a placeholder 'Add your paper title here' and a character count '0 / 280'.
- Abstract ***: A rich text editor with a toolbar and a 'Source' toggle.
- Presenter Name ***: A text input field.
- Presenter email ***: A text input field.
- Presenter Bio**: A rich text editor.
- Presenter Country**: A dropdown menu with the text 'Choose an Option'.
- Topic**: A list of checkboxes:
 - Objects
 - Low Code
 - Naming
 - Client Extensions
 - Other
- Submit**: A blue button at the bottom right of the form.

Content Section: Need inspiration?

Check out our latest features released!

- API Builder for faster low code development**: A card with a 'Read' button. Text: 'Our new API Builder will unlock faster and unlimited customization possibilities.'
- Build your own Data set with the new low-code Dataset Manager**: A card with a 'Read' button. Text: 'With the new Dataset Manager, you will be able to design and create any business experience at a low effort.'
- Display related object definitions in content pages**: A card with a 'Read' button. Text: 'Now, related objects are exposed to be displayed in related item collection providers.'

Next steps

Once you submit your Call for Paper, we will review it and let you know ASAP!

Please stay tuned as this year, we have enabled the possibility to interact with the DevCon Organization from your Call for Paper page!

Once we make the final decision, you will receive an email notification with the approval status of your Call for Paper.

Get in touch!
 devcon-team@liferay.com
 We're happy to answer any questions or concerns.

Step 2 - Presentation Layer

Form Container

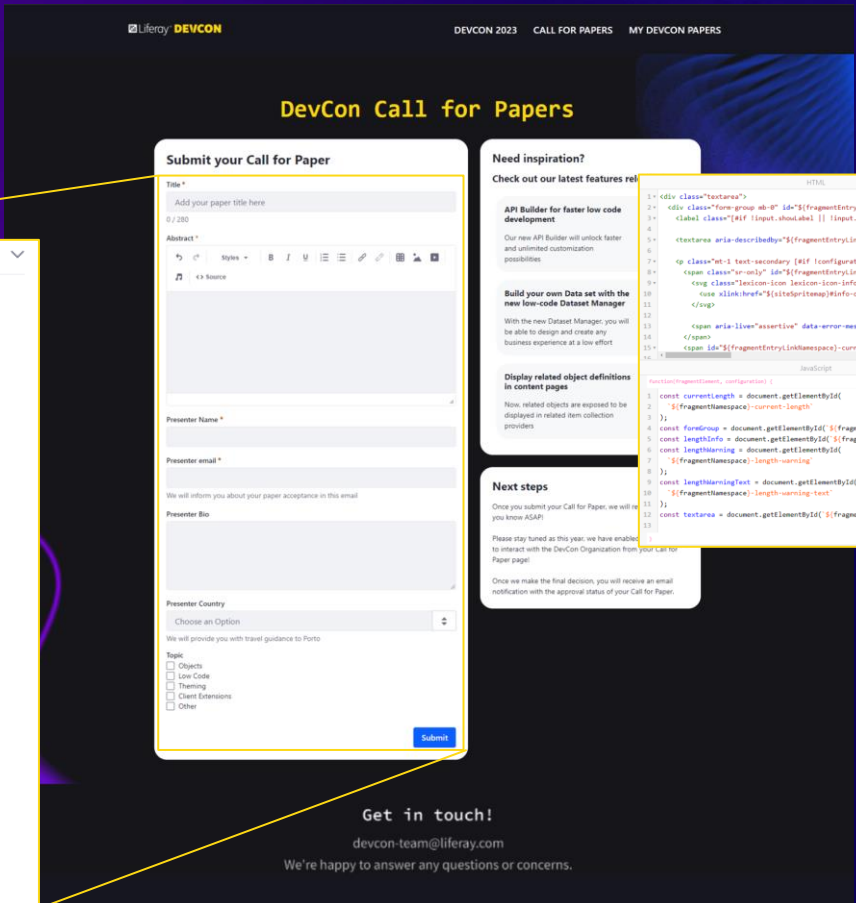
Direct mapping of an object definition

The image shows a Liferay website interface for 'DevCon Call for Papers'. At the top, there's a navigation bar with 'DEVCON 2023', 'CALL FOR PAPERS', and 'MY DEVCON PAPERS'. The main content area is titled 'DevCon Call for Papers' and contains a 'Submit your Call for Paper' form with fields for 'Title' and 'Abstract'. To the right, there are promotional cards for 'Need inspiration?' and 'Build your own Data set with the new low-code Dataset Manager'. A 'Fragments and Widgets' sidebar is visible on the left, listing various components like Grid, Button, Card, Date, Dropdown, External Video, HTML, Heading, Image, Paragraph, Separator, Slider, Social, Spacer, Tabs, and Video URL. A 'Select a Page Element' dialog is also present, showing a preview of a panel.

Step 2 - Presentation Layer

Form Fragments

Customize, configure and implement any type of behavior needed.



FORM COMPONENTS

- Form Container
- CAPTCHA
- Checkbox
- Date
- File Upload
- Multiselect List
- 123 Numeric Input
- Rich Text Input
- Select from List
- Submit Button
- Text Input
- Textarea
- Tags
- Categories

Need inspiration?

Check out our latest features related to:

- API Builder for faster low code development**
Our new API Builder will unlock faster and unlimited customization possibilities.
- Build your own Data set with the new low-code Dataset Manager**
With the new Dataset Manager, you will be able to design and create any business experience at a low effort.
- Display related object definitions in content pages**
Now, related objects are exposed to be displayed in related item collection providers.

Next steps

Once you submit your Call for Paper, we will let you know ASAP.

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```
HTML
1 <div class="textarea">
2 <div class="form-group mb-0" id="{fragmentEntryLinkNamespace}-form-group">
3 <label class="{if input.showLabel} {input.label}has_content{or-only}{if}">
4 <input type="text" value="{if input.value} {input.value} {/if}" />
5 </label>
6 <div class="form-control">
7 <div class="text-secondary" {if configuration.showCharacterCount{or-only}}
8 <span class="sr-only" id="{fragmentEntryLinkNamespace}-length-warning">
9 <span class="text-secondary" {if configuration.showCharacterCount{or-only}}
10 <span class="text-secondary" {if configuration.showCharacterCount{or-only}}
11 </span>
12 </div>
13 <input type="text" value="{if input.value} {input.value} {/if}" />
14 </div>
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```

Field

Presenter Bio

Content Type: Paper Request

Mark as Required

Show Label

Label

Show Help Text

Help Text

Add your help text here.

Placeholder

Number of Lines

5

Show Characters Count

Step 2 - Presentation Layer

Power of Content Pages

- Full customization of look & Feel
- Master pages, style books
- Experiences
- Friendly URLs & SEO Management
- Additional content with Collection Display

The screenshot displays a Liferay website page titled "DevCon Call for Papers". The page is divided into several sections:

- Submit your Call for Paper:** A form with fields for Title, Abstract (0 / 280), Presenter Name, Presenter email, Presenter Bio, and Presenter Country. It also includes a "Topic" section with checkboxes for Objects, Low Code, Training, Client Extensions, and Other. A "Submit" button is at the bottom.
- Need inspiration? Check out our latest features released!** A section with three featured articles:
 - API Builder for faster low code development:** "Our new API Builder will unlock faster and unlimited customization possibilities." (Read button)
 - Build your own Data set with the new low-code Dataset Manager:** "With the new Dataset Manager, you will be able to design and create any business experience at a low effort." (Read button)
 - Display related object definitions in content pages:** "Now, related objects are exposed to be displayed in related item collection providers." (Read button)
- Next steps:** A section providing information about the review process and the final decision.
- Collection Display:** A sidebar or top navigation area showing "Collections" and "Collection Providers". It includes a search bar and a list of items, such as "Latest features released" with "Web Content Article - Liferay feature" and "4 Usages".
- Footer:** "Get in touch!" with the email "devcon-team@liferay.com" and the text "We're happy to answer any questions or concerns."

Step 2 – Presentation Layer

Complete Experience

- Collection Display & fragments to list submitted Calls for Papers
- Display Page Templates to display the Call for Papers

The screenshot displays a Liferay portal interface for 'My submitted Calls for Papers'. The main content area shows a table with columns for Title, Status, and actions. The table contains five entries, each with a 'View' button. A yellow box highlights the 'View' button for the entry 'How to implement your design system in Liferay Experience Cloud using Clay'. To the right, a configuration sidebar is visible, showing 'General' settings for the collection display. The sidebar includes options for 'Collection Display Options', 'Collection' (Paper Requests), 'Style Display' (Grid), 'Layout' (Full Width), and 'Vertical Alignment'. A 'link' configuration panel is also open, showing 'Mapping' (Link), 'Link' (Mapped URL), 'Content Type' (Paper Request), 'Field' (Display Page URL), and 'URL' (http://localhost:8080/web/devcon/l/). The 'Open in a new tab' checkbox is checked.

Title	Status				
Forget Liferay. Use Liferay instead.	In review			View	
Headless: Present and Future	Approved			View	
Bringing low-code to the Frontend Dataset: the Dataset View Management App	Approved			View	
How to implement your design system in Liferay Experience Cloud using Clay	Approved			View	
How to rebuild the Devcon 2023 Call For Papers form using Application Pages & Objects	Request sent			View	

Showing 1 to 5 of 5 entries.

General
COLLECTION DISPLAY OPTIONS
Collection: Paper Requests
Style Display: Grid
Layout: Full Width
Vertical Alignment
link
Mapping: Link
Link: Mapped URL
Content Type: Paper Request
Field: Display Page URL
URL: http://localhost:8080/web/devcon/l/
 Open in a new tab.

Step 2 – Presentation Layer

Complete Experience

- Collection Display & fragments to list submitted Calls for Papers
- Display a Call for Paper with Display Page Templates
 - Map any object field
 - Also fields from related entities!

The screenshot displays a Liferay DEVCON page with the following content:

- Header:** Liferay DEVCON logo and DEVCON 2023.
- Main Content:**
 - Article:** "How to rebuild the Devcon 2023 Call For Papers form using Application Pages & Objects" with a "Request sent" button.
 - Abstract:** A paragraph describing the implementation of solutions for user interaction.
 - Presenter info:** Mateo Hermosin, mateohermosin@gmail.com. Bio: "As a mechanical engineer, I have spent my entire life building things. I have worked across several different sectors (civil engineering, airports & transportation, agriculture, IT consulting, healthcare, etc), in both multinationals and startups. During this journey, I have evolved from physical product design and management to digital product management."
 - Interact with the DevCon Organization!**
 - 0 COMMENTS, Subscribe button.
 - Form: "Type your comment here." with a text area and a "Reply" button.
- Configuration Panel (Right):**
 - Source:** Paper Request (Default)
 - Field:** Abstract
 - Paper Request:** Publish Date, Status, Abstract, Paper Status, Presenter Bio, Presenter email, Presenter Name, Presenter Country, Title, Topic, Year.
 - Presenter Country (Country):** Country, Mask, Passport, Travel Guide, Travel guide link.
 - Configuration:** Display Page URL.

Step 2 – Presentation Layer

Complete Experience

- Collection Display & fragments to list submitted Calls for Papers
- Display a Call for Paper with Display Page Templates
 - Map any object field
 - Also fields from related entities!

Released last week!

The screenshot shows a Liferay portal interface with a configuration menu for a 'Paper Request' widget. The menu is titled 'Source' and 'Field'. The 'Field' dropdown is open, showing a list of fields including 'Abstract', 'Publish Date', 'Status', 'Paper Request', 'Paper Status', 'Presenter Bio', 'Presenter email', 'Presenter Name', 'Presenter Country', 'Title', 'Topic', 'Year', 'Presenter Country (Country)', 'Country', 'Mask', 'Passport', 'Travel Guide', 'Travel guide link', 'Configuration', and 'Display Page URL'. A yellow box highlights the 'Released last week!' text next to the configuration menu. Another yellow box highlights a 'Travel Info to DevCon!' widget on the page, which contains a form with fields for 'Your country of departure' (Spain), 'Do I need the Passport to travel to Porto?' (No), and 'Do I need to wear a mask inside the airplane?' (No), along with a 'Download our travel guide to Porto!' button and a 'From Spain to Porto.pdf' link.

Step 2 – Presentation Layer

Complete Experience

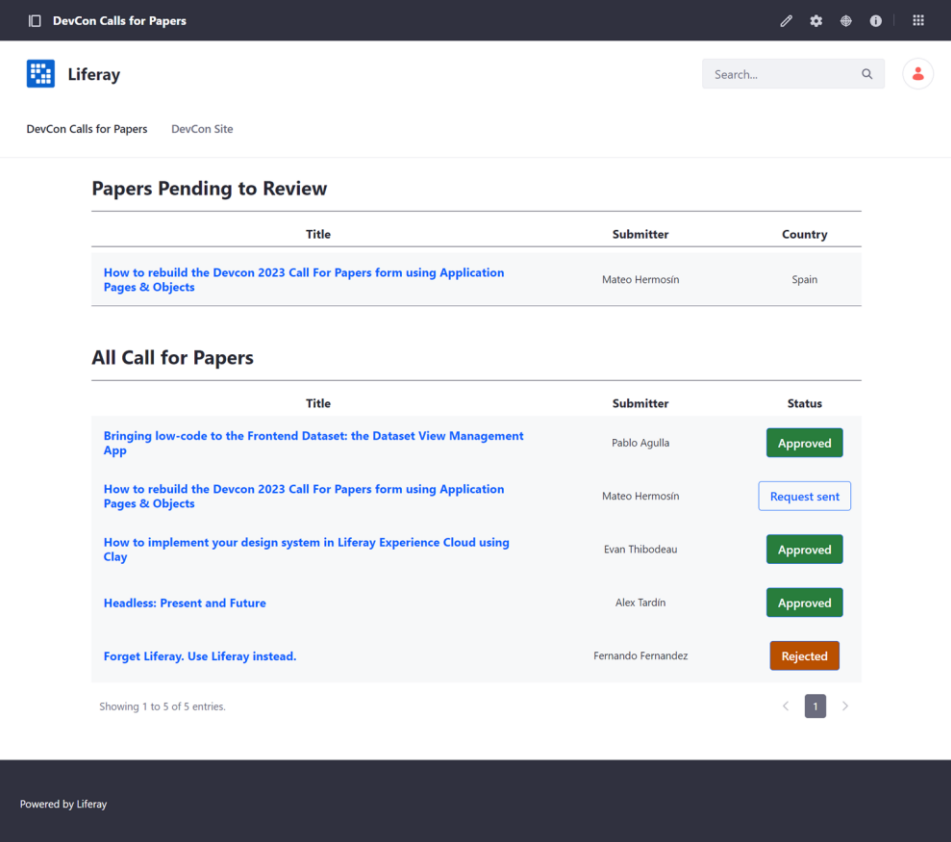
- Collection Display & fragments to list submitted Calls for Papers
- Display a Call for Paper with Display Page Templates
 - Map any object field
 - Also fields from related entities!
 - Compatible with Comments widget for better interaction.

The screenshot displays the DEVCON 2023 website interface. At the top, the navigation bar includes the Liferay DEVCON logo, the year 'DEVCON 2023', and links for 'CALL FOR PAPERS' and 'MY DEVCON PAPERS'. The main content area features three white cards on a dark background. The first card, titled 'How to rebuild the Devcon 2023 Call For Papers form using Application Pages & Objects', includes a 'Request sent' button, an abstract, and presenter information for Mateo Hermosin. The second card, 'Travel Info to DevCon!', contains a form with fields for country of departure, passport requirements, and mask requirements, along with a 'Download our travel guide to Porto!' link. The third card, 'Interact with the DevCon Organization!', shows a comments section with '0 COMMENTS', a 'Subscribe' button, a text input field, and a 'Reply' button. A yellow box highlights the comments widget.

Step 2 - Presentation Layer

Admin Experience

- Object created at instance level, admin experience centralized in a different site as “back office”.
- Organization role can see all received Calls for Papers and the details of each one
- Prefiltering by “approved” requests allow a better admin experience.



Step 2 – Presentation Layer

Admin Experience

- Object created at instance level, admin experience centralized in a different site as “back office”.
- Organization role can see all received Calls for Papers and the details of each one
- More complete display experience with additional actions

New feature for this Q2!

The screenshot displays the Liferay Admin Experience interface. At the top, there is a search bar and a user profile icon. Below the header, the main content area shows a page titled "How to rebuild the Devcon 2023 Call For Papers form using Application Pages & Objects". A "Request sent" dialog box is open, featuring "Approve" and "Reject" buttons. A yellow callout box highlights the "Approve" button and the "Action" dropdown menu, which is set to "Approval Action". The "Source" dropdown menu is also visible, set to "Paper Request (Default)". The page content includes an "Abstract" section, "Presenter info" for Mateo Hermosín, and a "Comments" section.

Key Takeaways

- We are working hard to improve business process experiences creation, to help cover a variety of B2B Solution use cases.
- Page Builder is evolving to provide more complex low-code functionality, going beyond mere content display.

What's coming?

Next Steps

- Actions triggering from fragments (this Quarter)
- Edit Object Entries (and related object entries) from Display Pages
- Integration with Datasets display
- Rules engine to implement dynamic behavior
- Out-of-the-box Multistep experience

Bonus track!

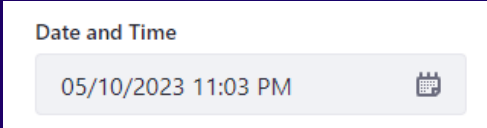
Small things to make your life easier

Now it's easy to format dates!

You can link to an email or telephone

More flexible layout configurations

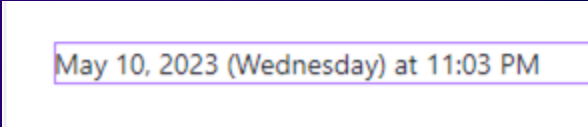
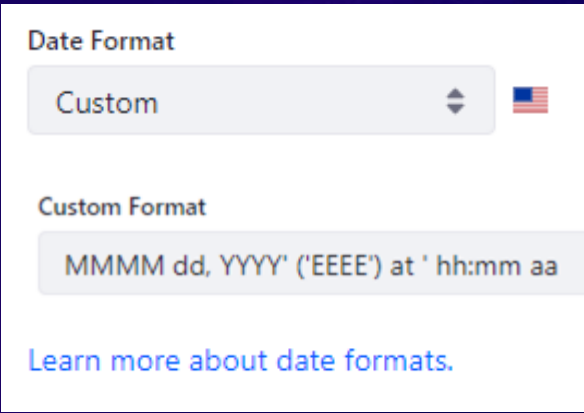
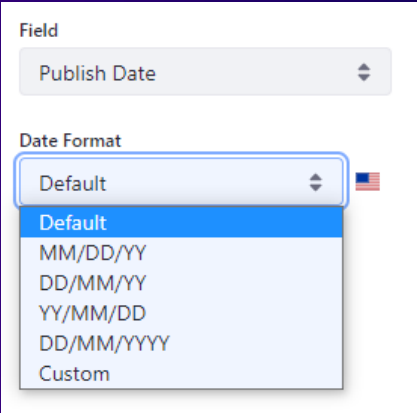
Rename your Page Tree items



```

1 <div data-lfr-editable-type="date-time" data-lfr-editable-id="date-time-1">
2 </div>

```



Small things to make your life easier

Presenter email *

element-text

Mapping Link

Link

Mapped URL

Source

Paper Request (Default)

Field

Presenter email

Open in a new tab.

Prefix

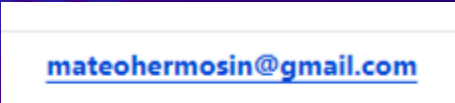
Email

Now it's easy to format dates!

You can link to an email or telephone

More flexible layout configurations

Rename your Page Tree items



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<h5 class="component-heading mb-0 text-break" data-lfr-editable-id="element-tes
<a href="mailto:mateohermosin@gmail.com">mateohermosin@gmail.com</a> == $0
</h5>
```

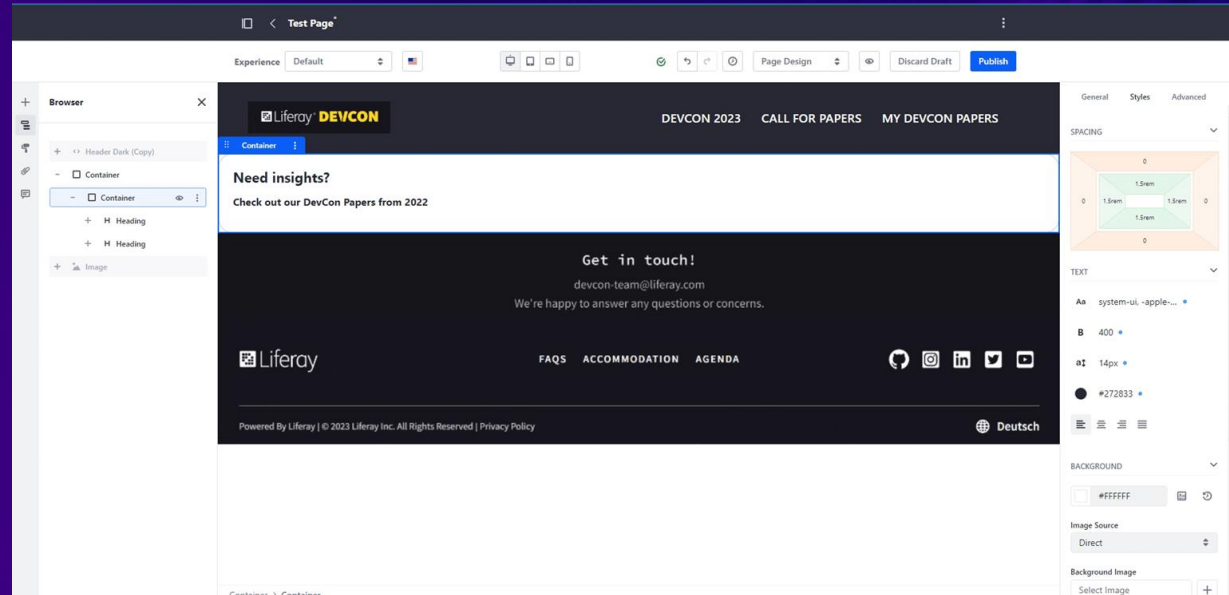
Small things to make your life easier

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More flexible layout configurations

Rename your Page Tree items



Small things to make your life easier

Now it's easy to format dates!

You can link to an email or telephone

More flexible layout configurations

Rename your Page Tree items

The image shows a screenshot of the Liferay WYSIWYG editor. On the left, a 'Browser' panel displays a tree view of the page structure. The root is 'Header Dark (Copy)', followed by a 'Container' which contains a 'Paragraph' (with 'element-text' below it), a 'Grid', and a 'Module'. The 'Container' is highlighted with a blue border. Below the 'Module' are three more 'Container' items, with the first one also highlighted. On the right, a 'Container' editor is open, showing a form titled 'Submit your Call for Paper'. The form has a 'Title' field with a placeholder 'Add your paper title here' and a character count '0 / 280'. Below the title is an 'Abstract' field with a rich text editor toolbar containing options for undo, redo, styles, bold, italic, underline, list, and link.

That was a11!
See you next year



How was this session?

Please share your rating in
the event app. Thank you!