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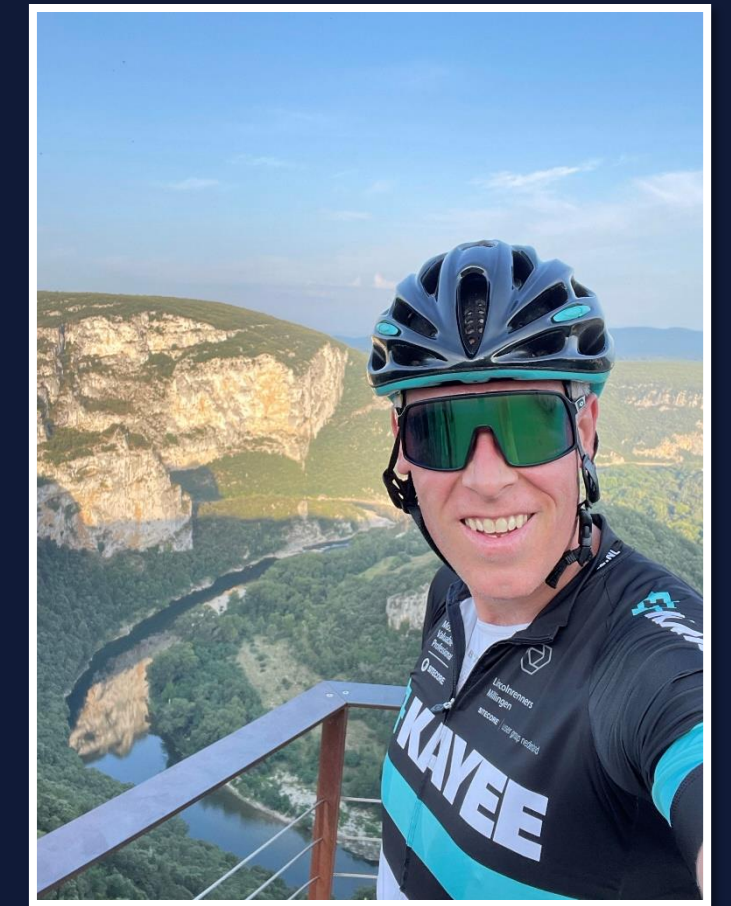
**SUG Jaipur – April 26, 2024**

**Sitecore XM Cloud – A Deep Dive on  
Bring Your Own Components (BYOC)**

# About me



- ❑ Robbert Hock - Kayee
- ❑ The Netherlands
- ❑ 15x Sitecore MVP (2010-2024)
- ❑ Sitecore contractor (Lead Developer, Sitecore Architect)
- ❑ Sitecore experience since 2008
- ❑ Original founder of SUGNL & SUGCON
- ❑ Married & 3 kids
- ❑ Hobbies: Movies, Cycling, Soccer
- ❑ Interests: DXP, Blockchain, AI
- ❑ Blog: <https://www.kayee.nl/blog>



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# Agenda



- ❑ Ways of component development with XM Cloud
- ❑ Prerequisites BYOC
- ❑ Features BYOC
- ❑ BYOC Rendering modes
- ❑ How to build
- ❑ JSON Schema Form explained
- ❑ How to use BYOC
- ❑ See it in action (simple & advanced scenario)
- ❑ Documentation

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# 3 Ways of Component Development

- ❑ Next.js/JSS
- ❑ Components Builder
- ❑ BYOC

Documentation can be found at:

<https://doc.sitecore.com/xmc/en/developers/jss/216/jss-xmc/introducing-sitecore-javascript-rendering-sdk.html>

<https://doc.sitecore.com/xmc/en/users/xm-cloud/build-components.html>

<https://doc.sitecore.com/xmc/en/developers/xm-cloud/bring-your-own-components.html>

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# Prerequisites BYOC

- Only available in XM Cloud
- JSS 21.6

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# Features BYOC

- Display like Native Components
- Hot Reloading
- Use your own tools
- Re-usage across sites
- UI is generated by configuration
- Configuration data & external data
- No inline field editing

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# BYOC Rendering Modes

- Hybrid Rendering
- Client-side rendering

Recommended: **Hybrid Rendering**

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# How to build?

- ❑ Option 1 – External code base (React components hosted externally)
- ❑ Option 2 – JSS scaffold & auto-register

Documentation can be found at:

<https://doc.sitecore.com/xmc/en/developers/xm-cloud/walkthrough--registering-an-external-react-component.html>

<https://doc.sitecore.com/xmc/en/developers/jss/216/jss-xmc/scaffold-and-auto-register-your-own-components-in-a-next-js-app.html>

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# JSON Schema Form

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*JSON Schema Form is basically a React component that is capable of using JSON Schema to declaratively build and customize web forms*

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# JSON Schema Form

- ❑ JSON Schema standard
- ❑ Structure & Validation configuration upon JSON Schema.
- ❑ Sitecore also uses 'uiSchema' for UI

Schema's can be found at:

<https://rjsf-team.github.io/react-jsonschema-form/docs/json-schema/>

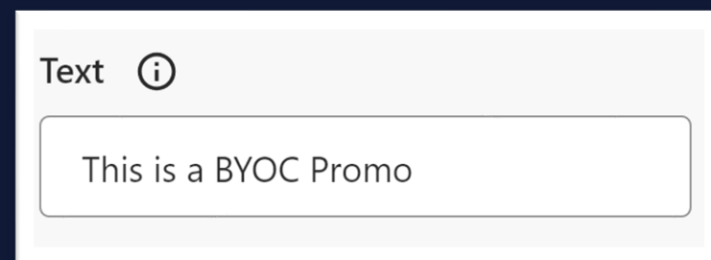
<https://rjsf-team.github.io/react-jsonschema-form/docs/api-reference/uiSchema/>

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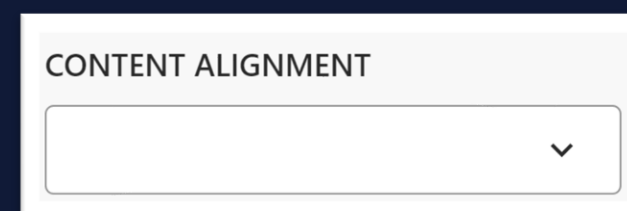
# JSON Schema Form Field Types

- ❑ Playground - <https://rjsf-team.github.io/react-jsonschema-form/>
- ❑ Types: "string" | "number" | "boolean" | "object" | "integer" | "array" | "null"

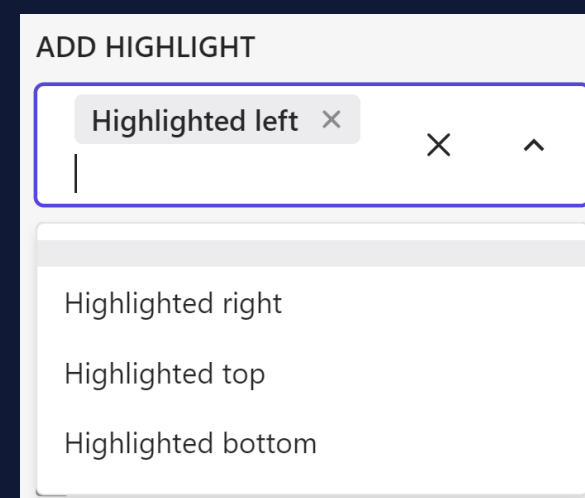
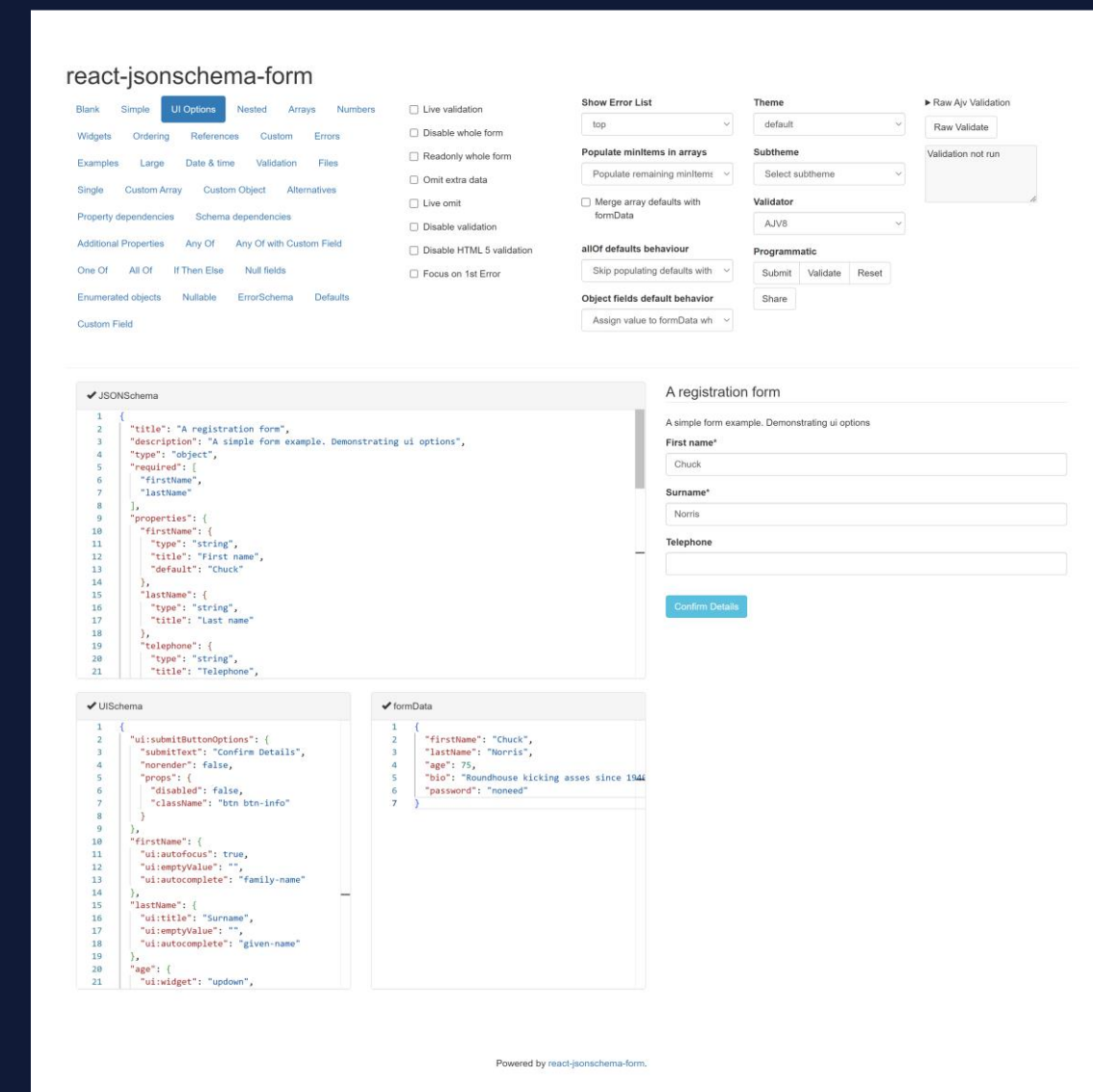
❑ String:



❑ Array (One option)



❑ Array (multiple options)

# How to use BYOC?

- FEAAS.External.registerComponent & Import
- Drag & Drop in Pages
- Configuration
- Update

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# BYOC in Action

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*It's demo time!*

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# BYOC documentation

## Sitecore:

- <https://doc.sitecore.com/xmc/en/developers/xm-cloud/bring-your-own-components.html>
- <https://doc.sitecore.com/xmc/en/developers/xm-cloud/the-registercomponent-method.html>
- <https://doc.sitecore.com/xmc/en/developers/xm-cloud/walkthrough--registering-an-external-react-component.html>
- <https://doc.sitecore.com/xmc/en/developers/jss/216/jss-xmc/scaffold-and-auto-register-your-own-components-in-a-next-js-app.html>

## Examples:

- <https://github.com/Sitecore/feaas-nextjs-example>

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# BYOC blogs

## Blog(s):

### **A first look at Sitecore XM Cloud BYOC**

<https://www.kayee.nl/2024/03/06/a-first-look-at-sitecore-xm-cloud-byoc/>

### **How to Build a Great UI for your Sitecore XM Cloud BYOC Components**

<https://www.kayee.nl/2024/03/18/how-to-build-a-great-ui-for-your-sitecore-xm-cloud-byoc-components/>

### **Exploring validation on Sitecore XM Cloud BYOC Components**

<https://www.kayee.nl/2024/03/26/exploring-validation-on-sitecore-xm-cloud-byoc-components/>

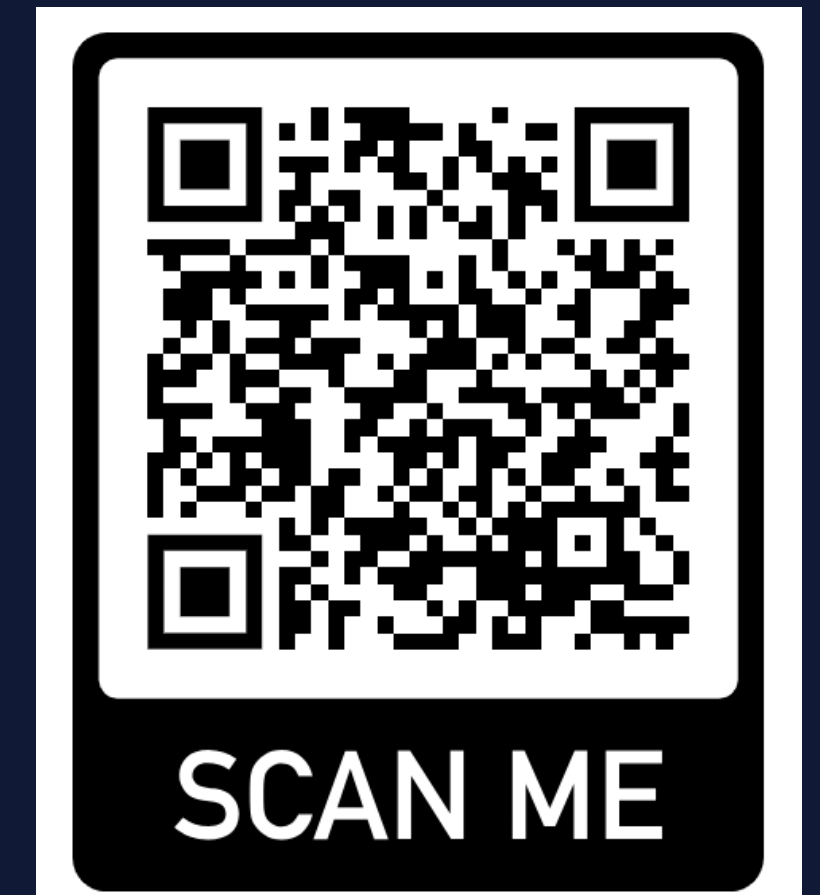


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# GitHub Repo Code

The code for the 2 BYOC components will be made publicly available at:

- <https://github.com/KayeeNL/xmcloud-sug-jaipur-byoc-demo>



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Special thanks to

The logo for wvelir, consisting of a stylized lowercase 'w' followed by the lowercase letters 'velir' in a bold, black, sans-serif font, all contained within a white rectangular box.

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Robbert Hock

# Thank you!



<https://www.kayee.nl/blog>

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# Questions?

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