

adaptTo()

EUROPE'S LEADING AEM DEVELOPER CONFERENCE
25th – 27th SEPTEMBER 2023

Achieving **Agility** and **Flexibility** with **AEM Hybrid**
Implementation
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About the Speakers



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Our Achievements



Named in Forrester Now Tech: Adobe Services Partners In Asia Pacific, Q1 2022

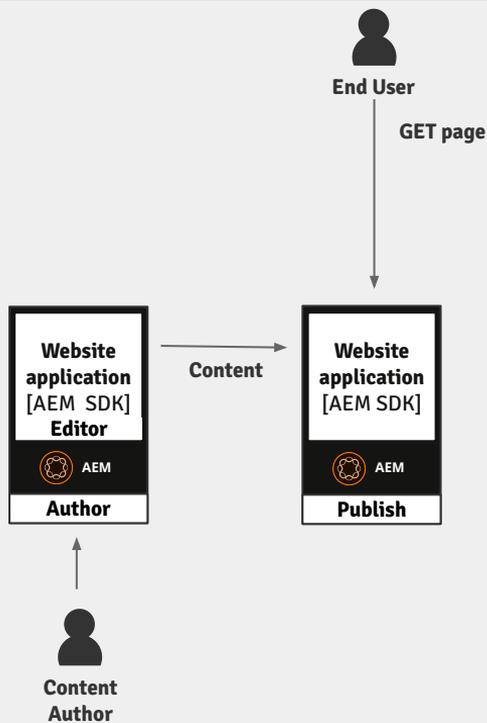


- Intro
- AEM Solution Approaches
- AEM hybrid approach
- Case
- Challenges
- Our approach
- Demo
- What We Achieved

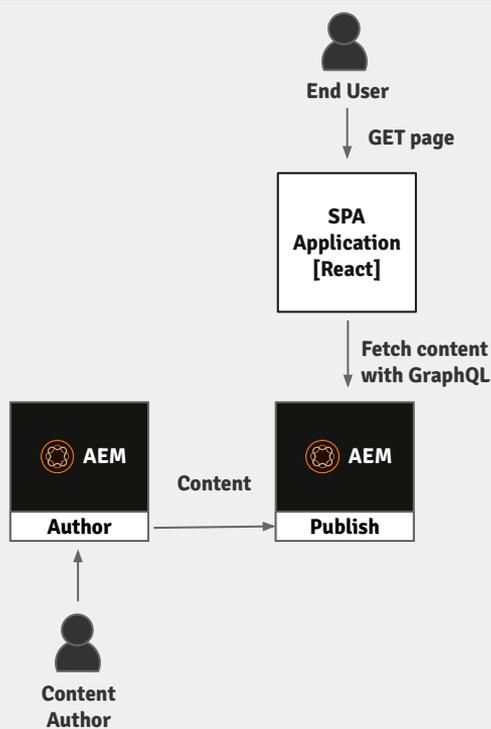
AEM Solution Approaches

AEM Solution Approaches

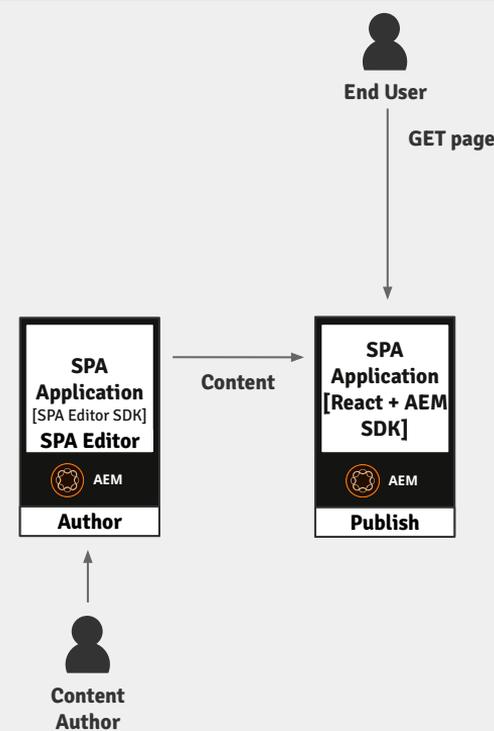
Fullstack



Headless



Hybrid



AEM Hybrid Approach

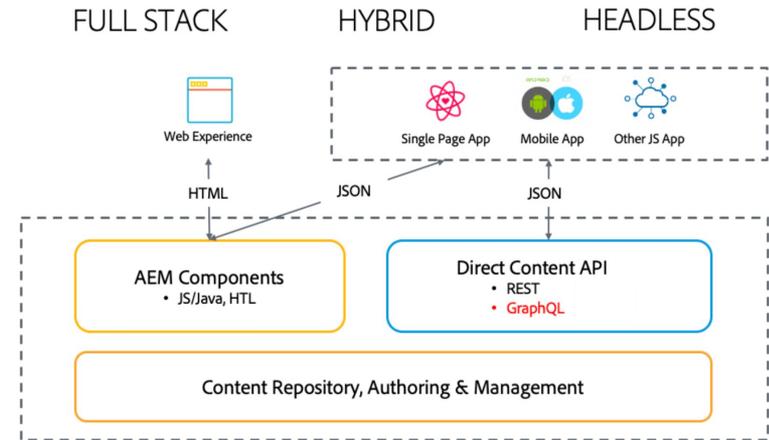
Advantages

- Flexible, Scalable, Maintainable
- Speed of Development
- Author and User Experience

Disadvantages

- Complex Implementation
- Learning Curve
- Lack of Documentation

AEM Content Delivery & Management

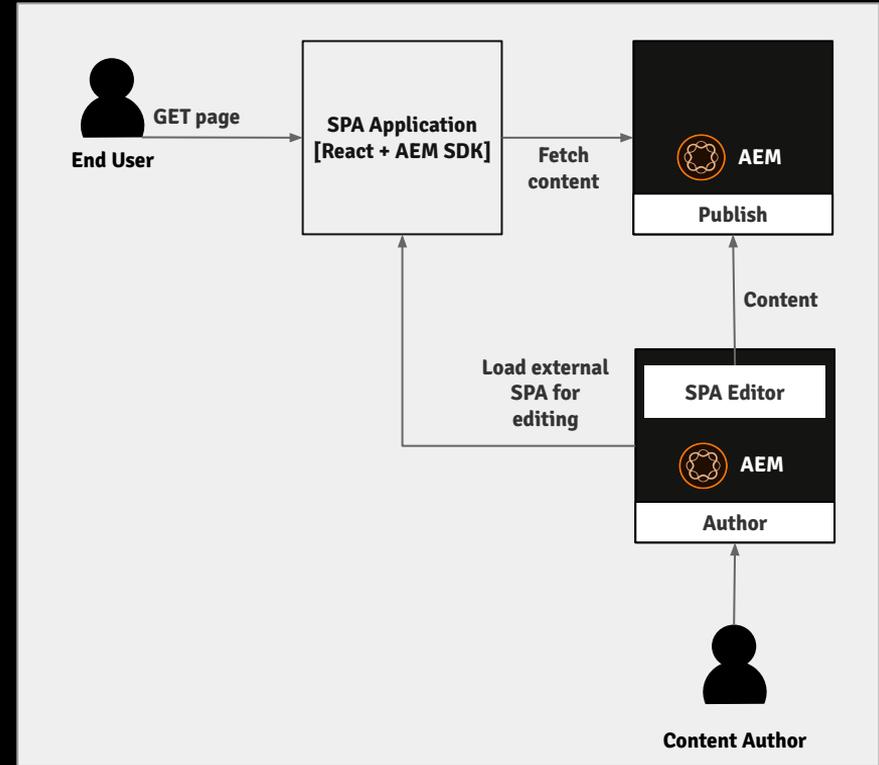


Options for Hybrid solutions within AEM

- AEM Remote SPA
- AEM SPA

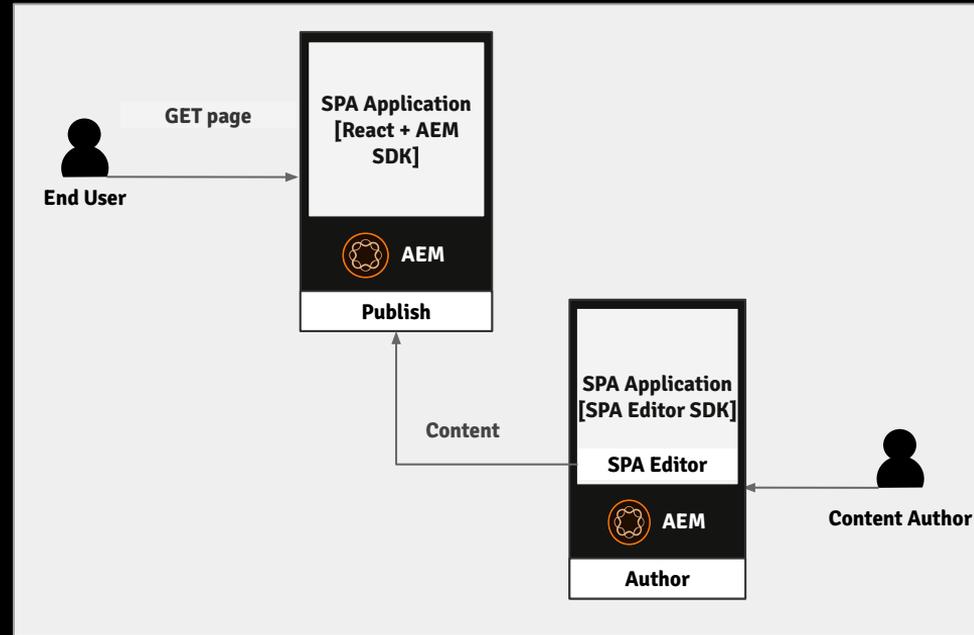
AEM Remote SPA

- Decoupled, externally hosted
- React/Next.js, AEM SDK
- Dynamic routing
- Independent server setup
- Multi-phase deployments
- SSR handled by FE module



AEM SPA

- Coupled
- React or Angular
- Use of AEM Libraries
- WYSIWYG
- 1-to-1 mapping
- Maven archetype
- Additional setup needed for SSR.



Case: “A nice client”

Requirements

- Tight schedule, 30+ components
- Cutting-edge technologies
- Author friendly
- Complex FE integrations
- Adobe Ecosystem
- Excellent UX/UI,
- Scalable and Maintainable

Pillars for the project

Customer experience



Author experience

- WYSIWYG
- AEM author experience

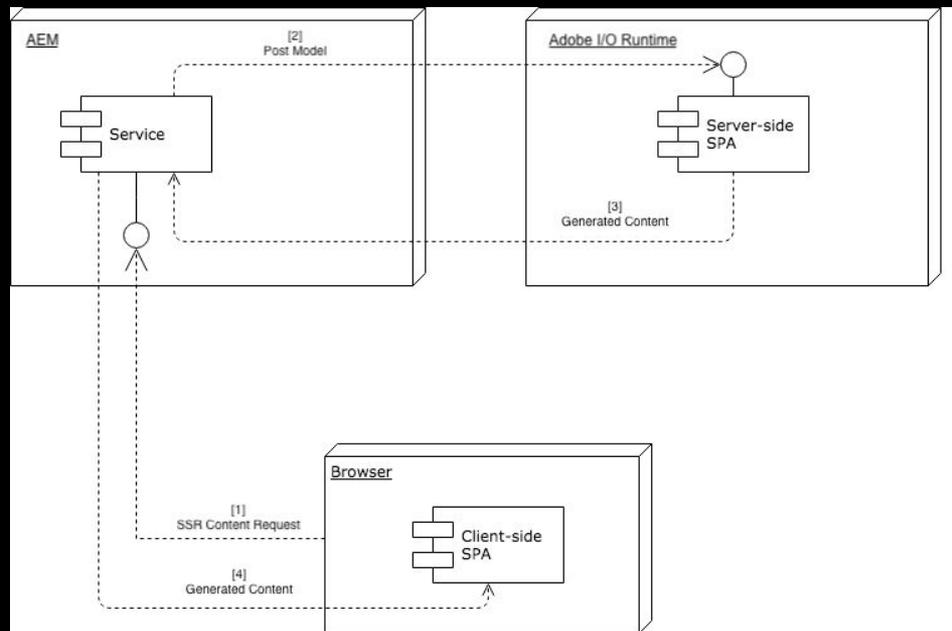


Scalability - Maintenance

- AEM OOTB features
- Cutting edge technologies
- FE & BE segregation

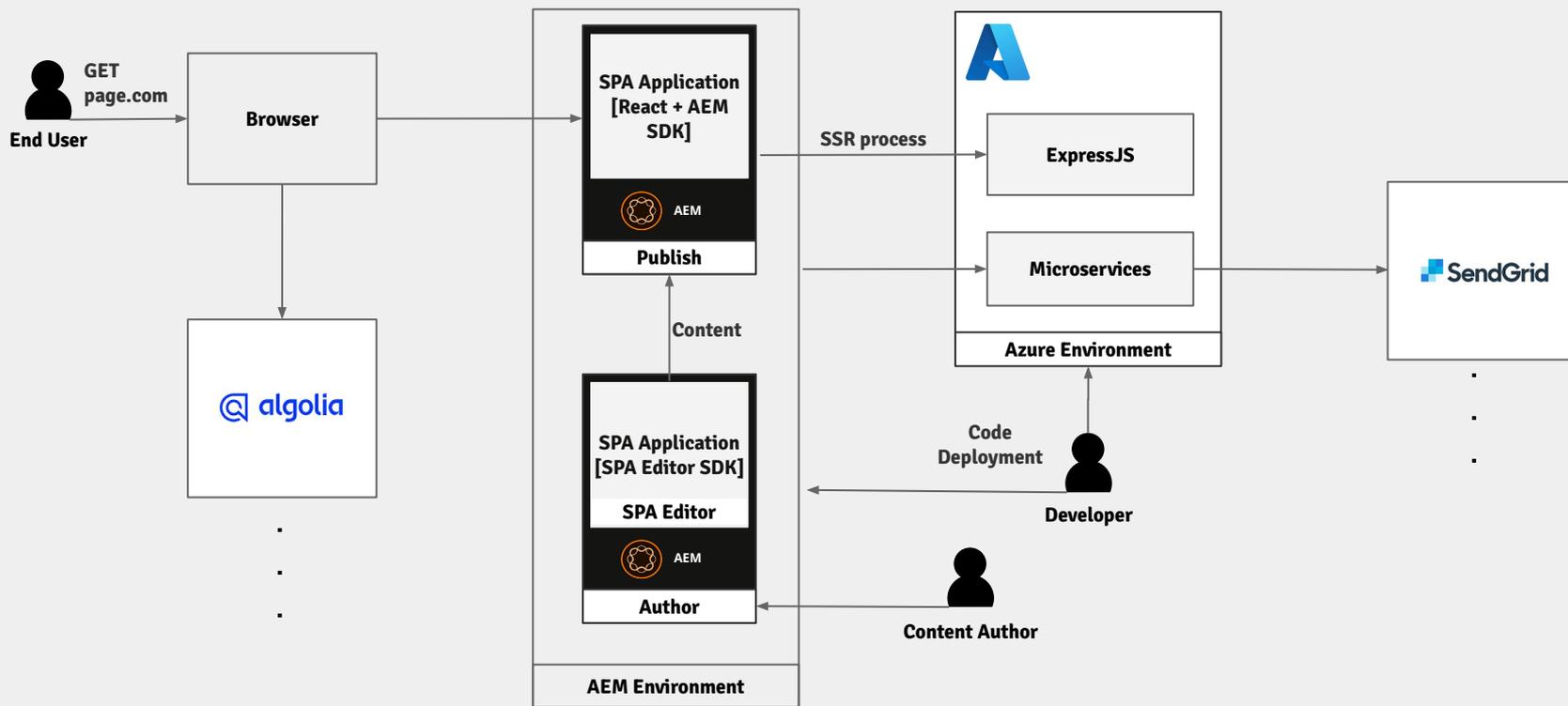
Challenges for the SPA Approach

- Limited external info
- No Typescript in default archetype
- SSR setup
 - Adobe I/O Runtime: limited docs
 - Separate license
 - Solution still maturing
 - External Express Server.



Our Approach for SPA

Our Approach for SPA



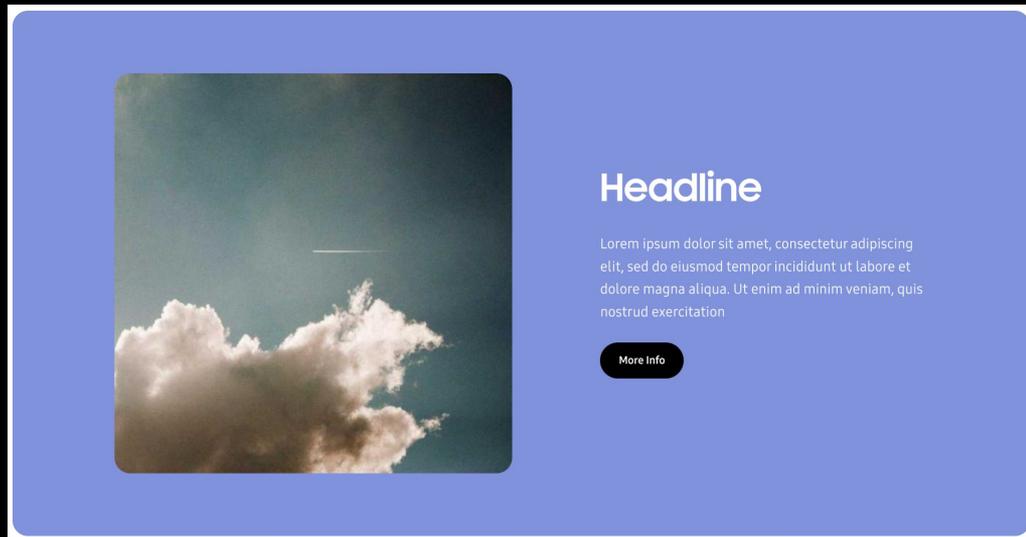
Demo

What are we going to show

- “Introduction component”
- The contract (JSON)
- Documentation
- Storybook
- How the FE and BE is connected
 - Frontend component
 - Backend implementation
- Author experience

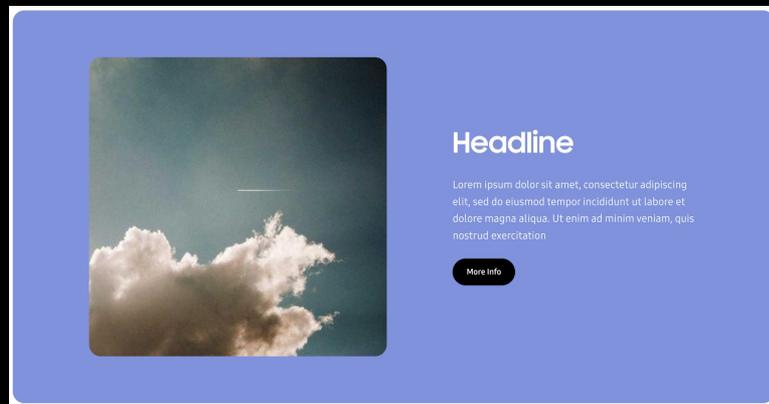
Introduction component

- Requirements:
 - Different versions
 - XS, S, M, L, XL
 - Depending on the version we are going to show or hide information.

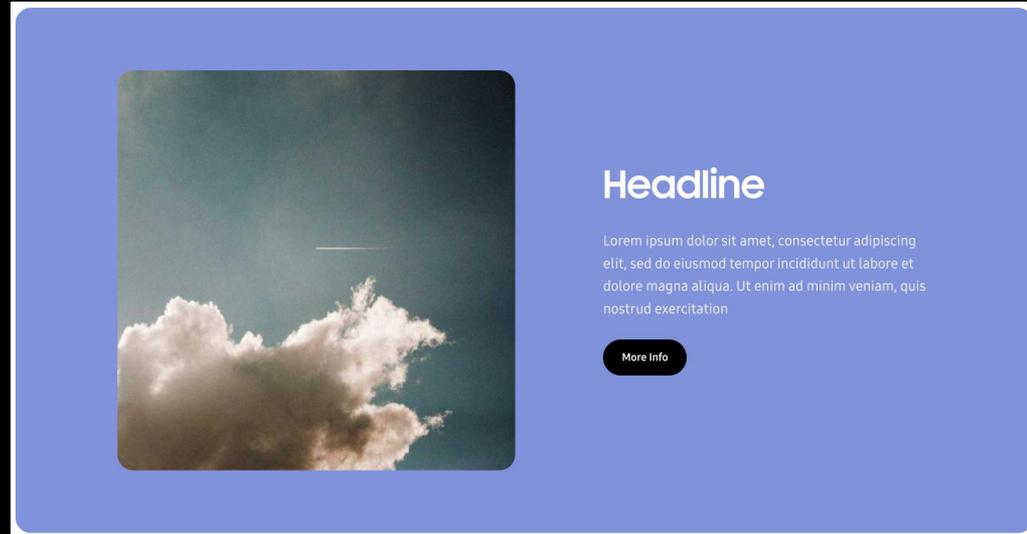


The contract (JSON)

```
{
  isInverted: true,
  isReversed: false,
  headline:"Headline",
  description:"Lorem ipsum dolor sit amet, consectetur
  adipiscing elit, sed do eiusmod tempor incididunt ut
  labore et dolore magna aliqua. Ut enim ad minim
  veniam, quis nostrud exercitation",
  image: {
    url: "https://awesome-image.com/image.png",
    alt: "",
    title: ""
  },
  cta:{
    label:"More Info",
    url:"some url"
  },
  size:"XL"
}
```

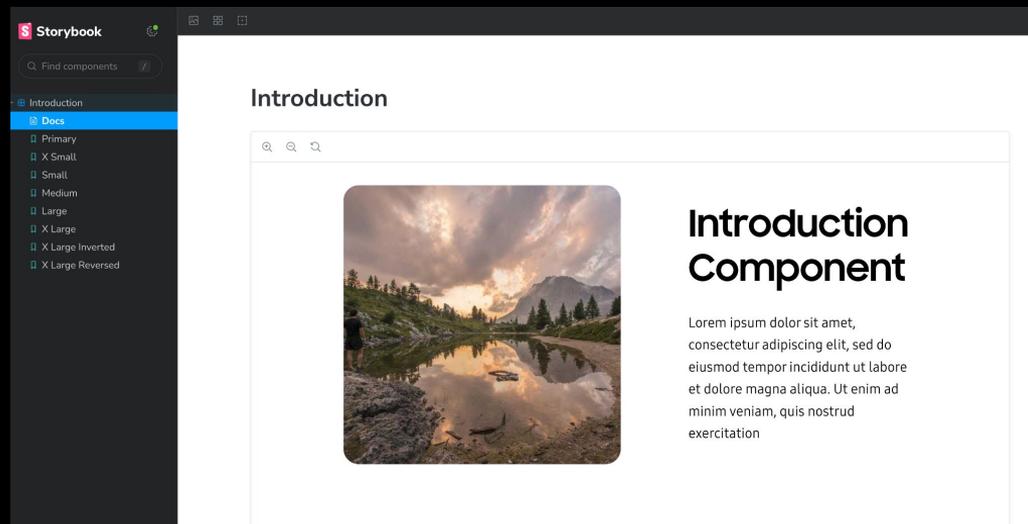


- Set the contract
- From where the information will come from
- What is the impact for the authors
- Wireframes



Storybook

- Frontend tool to develop
- Isolated from AEM
- No BE support
- Base on the Json contract
- Test edge scenarios.



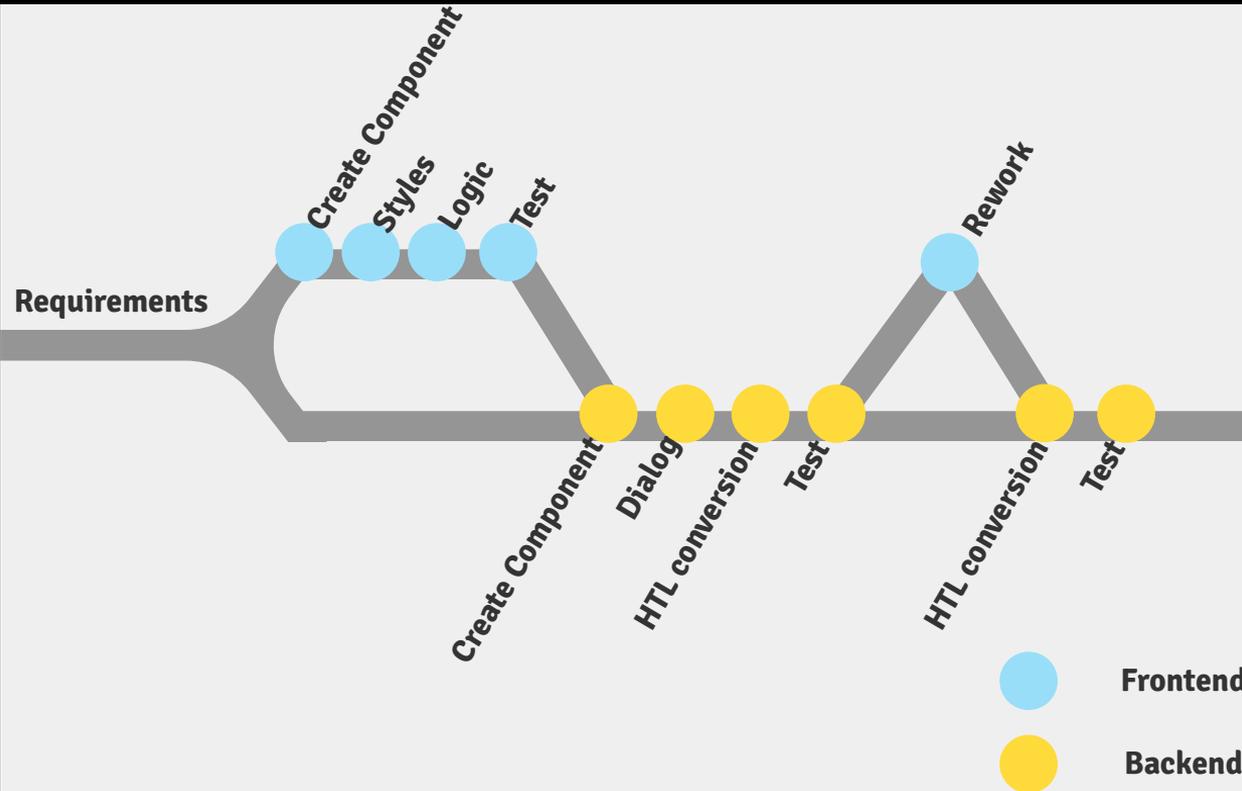


How the FE and BE is connected

- Frontend component
 - MapTo Function
- Backend implementation
 - Sling Model Exporter
- Author experience

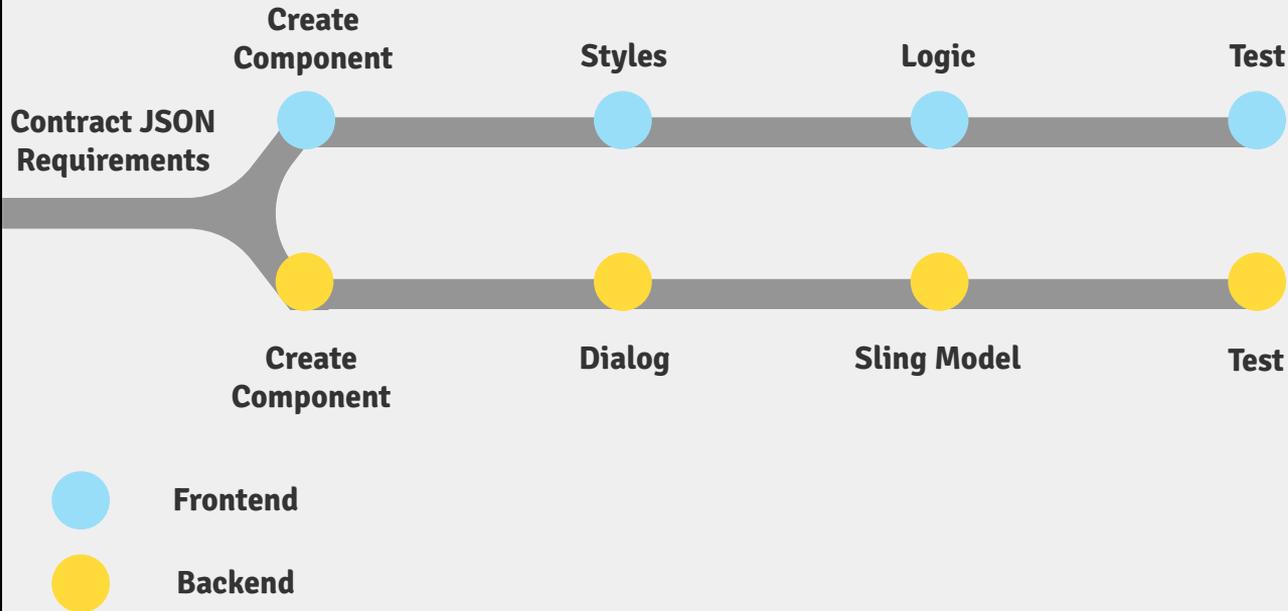
Development process using SPA

Comparing the dev process - fullstack



- **Dependency FE->BE**
- **Complex Parallel work**
- **Most of the cases Rework**

Comparing the dev process - SPA



- **No dependency**
- **Parallel work**
- **Based on the contract**
- **Hardly any rework**

What We Achieved

**Development
speed**

**Intuitive
documentation**

**Enhanced
integrations**

**Auto-generated
components**

**Simplified
onboarding**

**Flexible logic
allocation**

Conclusion

- [Hybrid and SPA with AEM](#)
- [Content delivery and management](#)
- [Getting Started with SPAs in AEM Using React](#)
- [Integrating React and AEM](#)
- [SPA and Server-Side Rendering](#)
- [React Storybook](#)
- [AEM HTL Generator](#)
- [Adobe practice @DEPT](#)
- [Source code](#)

Q&A