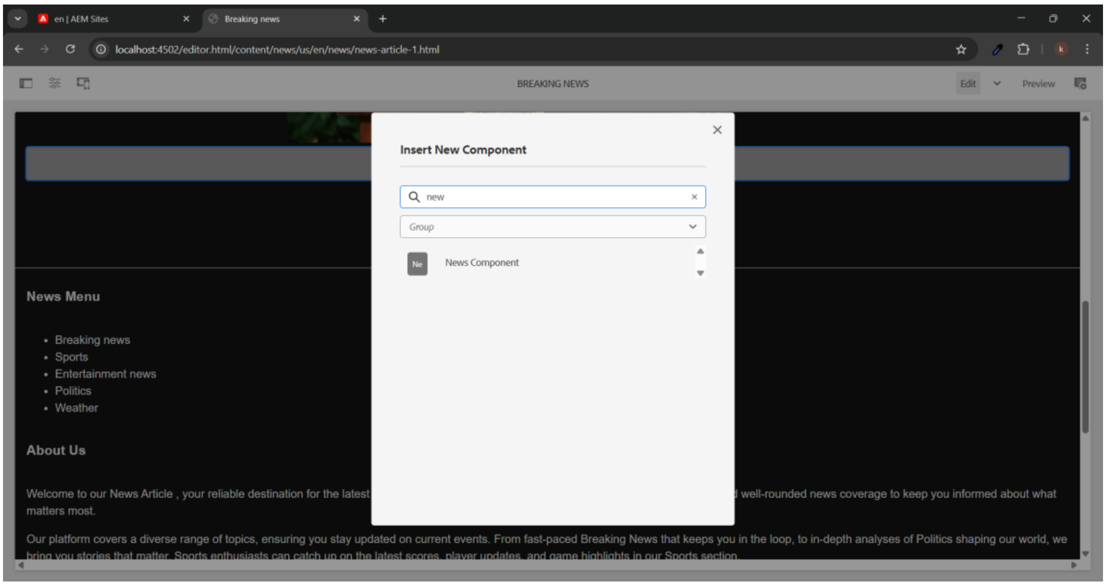
1.Create A new component which have news title(should print as h2), news detail(<p>), published date, source create this component using sling model.

NewsModel.java

```
@Model(adaptables = Resource.class, defaultInjectionStrategy =
DefaultInjectionStrategy.OPTIONAL)
public class NewsModel {

    @Inject
    private String text;

    @Inject
    private String newsDetail;

    @Inject
    private Calendar publishedDate; // FIXED: Changed to Calendar type

    public String getText() {
        return text;
    }

    public String getNewsDetail() {
        return newsDetail;
    }

    public String getFormattedPublishedDate() {
        if (publishedDate != null) {
            SimpleDateFormat sdf = new SimpleDateFormat("dd MMM yyyy");
            return sdf.format(publishedDate.getTime()); // FIXED: Now works with
Calendar
        }
        return "N/A";
    }
}
```

News.html

```
<h2 class="cmp-news__title">News Component</h2>

<p class="cmp-news__label">Text:</p>

<p class="cmp-news__label">Published Date:</p>
```


en | AEM Sites
Breaking news
localhost:4502/editor.html/content/news/us/en/news/news-article-1.html
BREAKING NEWS
Edit
Preview

Insert New Component

new

Group

News Component

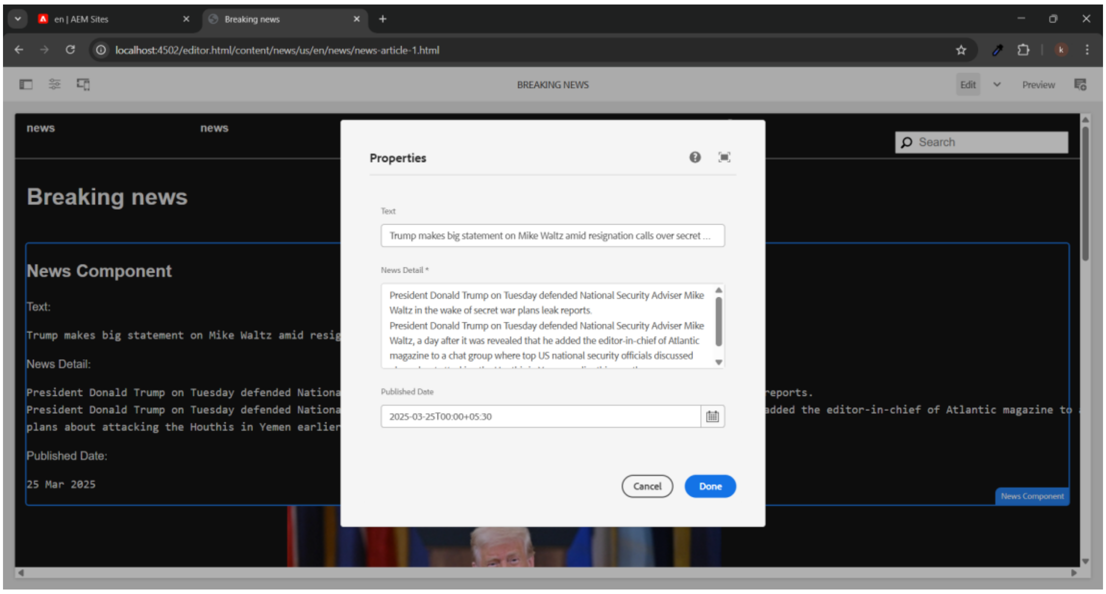
News Menu

- Breaking news
- Sports
- Entertainment news
- Politics
- Weather

About Us

Welcome to our News Article , your reliable destination for the latest well-rounded news coverage to keep you informed about what matters most.

Our platform covers a diverse range of topics, ensuring you stay updated on current events. From fast-paced Breaking News that keeps you in the loop, to in-depth analyses of Politics shaping our world, we bring you stories that matter. Sports enthusiasts can catch up on the latest scores, player updates, and game highlights in our Sports section.



Breaking news

News Component

Text:

Trump makes big statement on Mike Waltz amid resig

News Detail:

President Donald Trump on Tuesday defended Nationa reports.
President Donald Trump on Tuesday defended Nationa added the editor-in-chief of Atlantic magazine to
plans about attacking the Houthis in Yemen earlier

Published Date:

25 Mar 2025

Properties

Text

Trump makes big statement on Mike Waltz amid resignation calls over secret ...

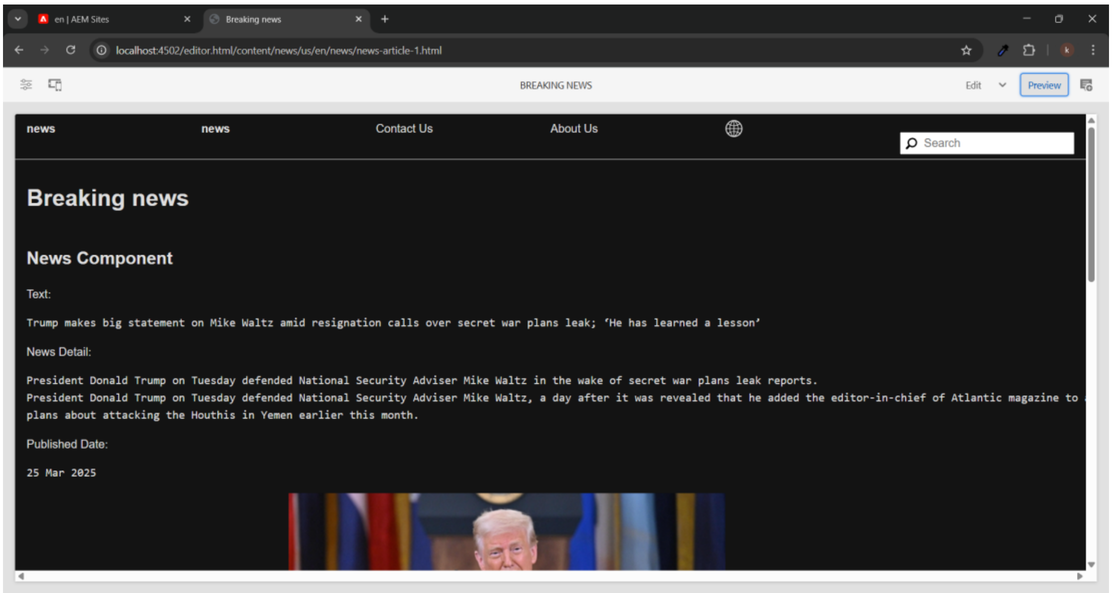
News Detail *

President Donald Trump on Tuesday defended National Security Adviser Mike Waltz in the wake of secret war plans leak reports.
President Donald Trump on Tuesday defended National Security Adviser Mike Waltz, a day after it was revealed that he added the editor-in-chief of Atlantic magazine to a chat group where top US national security officials discussed

Published Date

2025-03-25T00:00+05:30

Cancel Done



Breaking news

News Component

Text:

Trump makes big statement on Mike Waltz amid resignation calls over secret war plans leak; 'He has learned a lesson'

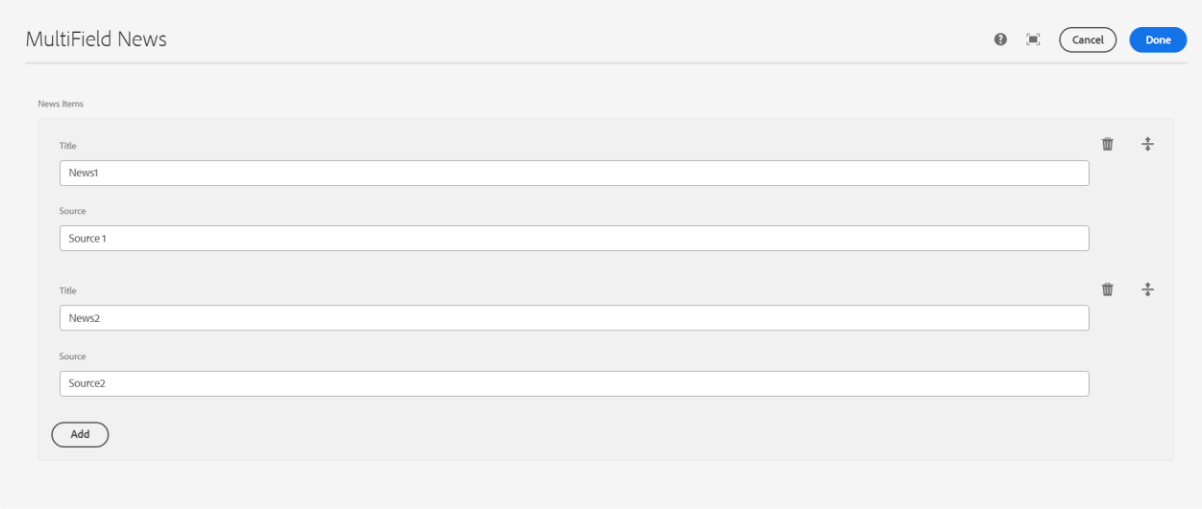
News Detail:

President Donald Trump on Tuesday defended National Security Adviser Mike Waltz in the wake of secret war plans leak reports.
President Donald Trump on Tuesday defended National Security Adviser Mike Waltz, a day after it was revealed that he added the editor-in-chief of Atlantic magazine to
plans about attacking the Houthis in Yemen earlier this month.

Published Date:

25 Mar 2025

2.Create multi field component(multiple news) using sling model fields: title of new and source of news



News Items

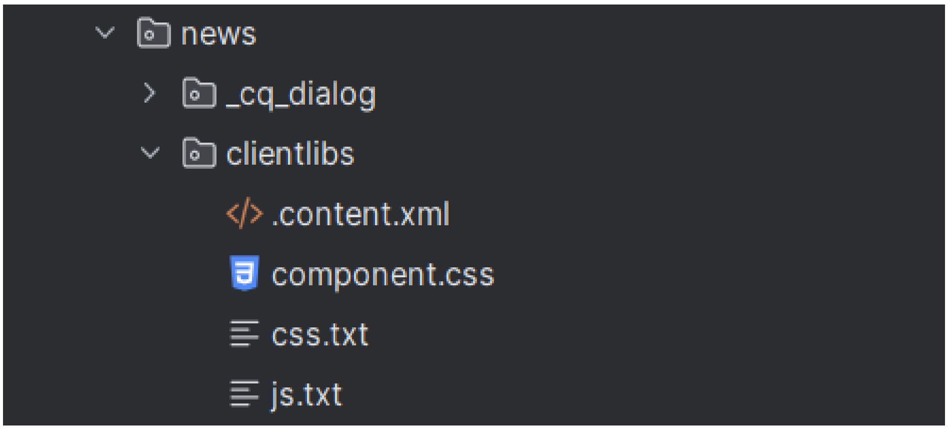
Title: News1

Source: Source 1

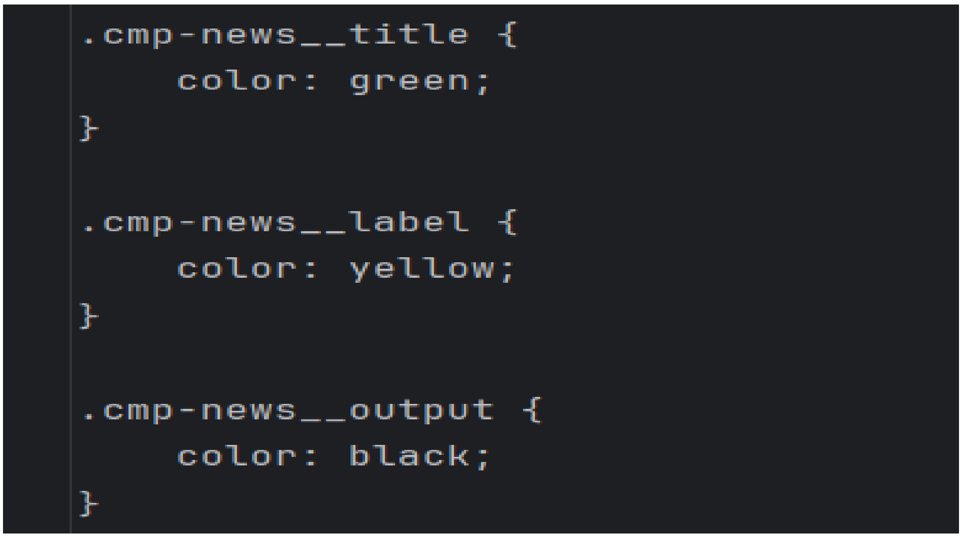
Title: News2

Source: Source2

3.Create clientlibs for news component

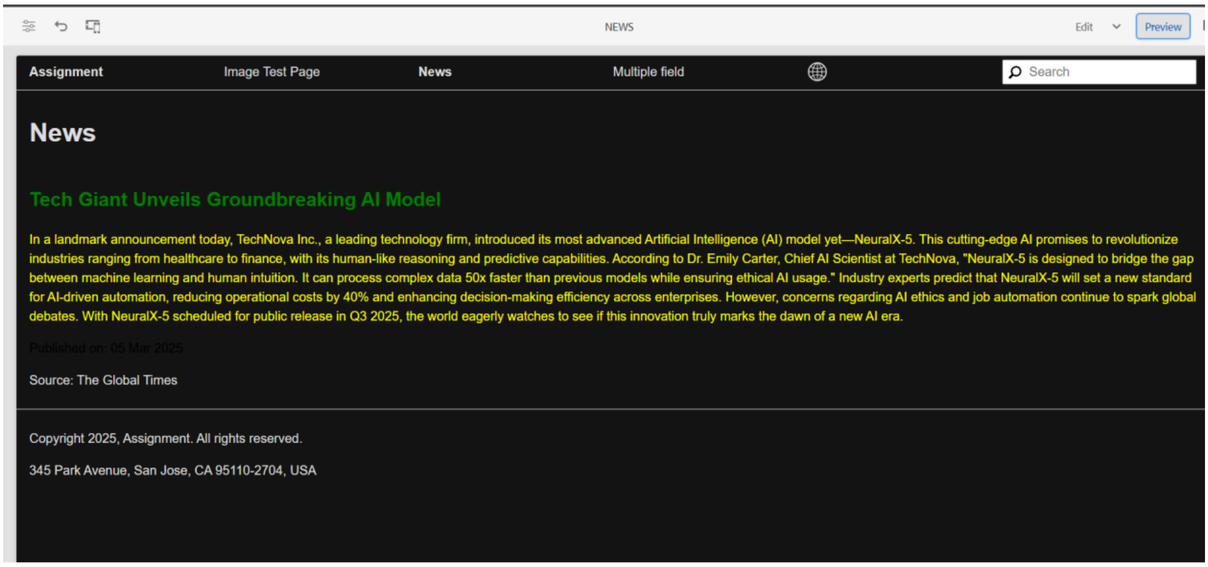


```
news
  _cq_dialog
  clientlibs
    .content.xml
    component.css
    css.txt
    js.txt
```



```
.cmp-news__title {
    color: green;
}

.cmp-news__label {
    color: yellow;
}

.cmp-news__output {
    color: black;
}
```

4.Apply Green colour to the heading(h2) and yellow colour to news detail(<p) and date should be black in colour.



News

Tech Giant Unveils Groundbreaking AI Model

In a landmark announcement today, TechNova Inc., a leading technology firm, introduced its most advanced Artificial Intelligence (AI) model yet—NeuralX-5. This cutting-edge AI promises to revolutionize industries ranging from healthcare to finance, with its human-like reasoning and predictive capabilities. According to Dr. Emily Carter, Chief AI Scientist at TechNova, "NeuralX-5 is designed to bridge the gap between machine learning and human intuition. It can process complex data 50x faster than previous models while ensuring ethical AI usage." Industry experts predict that NeuralX-5 will set a new standard for AI-driven automation, reducing operational costs by 40% and enhancing decision-making efficiency across enterprises. However, concerns regarding AI ethics and job automation continue to spark global debates. With NeuralX-5 scheduled for public release in Q3 2025, the world eagerly watches to see if this innovation truly marks the dawn of a new AI era.

Published on: 05 Mar 2025

Source: The Global Times

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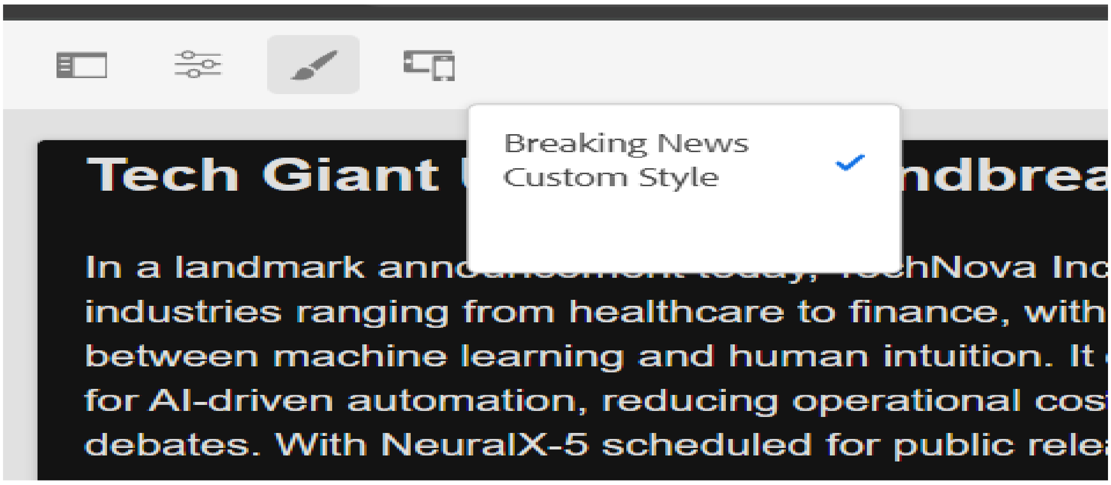
345 Park Avenue, San Jose, CA 95110-2704, USA

5.Add Component style to add custom style name (cop-news-component) in news component

content.xml

```
<jcr:root xmlns:jcr="http://www.jcp.org/jcr/1.0"
        xmlns:cq="http://www.day.com/jcr/cq/1.0"
        jcr:primaryType="cq:Component"
        jcr:title="News Component"
        componentGroup="Example Components"
        cq:style="cop-news-component"/>
```



Tech Giant ndbrea

In a landmark anno echNova Inc
industries ranging from healthcare to finance, with
between machine learning and human intuition. It
for AI-driven automation, reducing operational cos
debates. With NeuralX-5 scheduled for public rele

Component Path: /apps/news/components/basepage

basepage.html

```
<html>
<head>
   <link rel="stylesheet" href="/etc.clientlibs/example/clientlibs/news.css" type="text/css">
   <meta property="og:title" content="${properties.ogTitle}" />
   <meta property="og:description" content="${properties.ogDescription}" />
   <meta property="og:image" content="${properties.ogImage}" />
</head>
<body>
   <sly data-sly-resource="${'news' @ resourceType='news/components/news'}"></sly>
</body>
</html>
```

7.Create custom page properties saying Global properties and 3 fields should be there as og:title, og :description and og:image path.

dialog.xml

```
<jcr:root xmlns:jcr="http://www.jcp.org/jcr/1.0"
xmlns:sling="http://sling.apache.org/jcr/sling/1.0"
jcr:primaryType="cq:Dialog"
cq:dialogMode="floating">
<content jcr:primaryType="nt:unstructured">
<items jcr:primaryType="nt:unstructured">
<ogTitle
jcr:primaryType="nt:unstructured"
sling:resourceType="granite/ui/components/coral/foundation/form/textfield"
fieldLabel="OG Title"
```

```
name="./ogTitle"/>
<ogDescription
jcr:primaryType="nt:unstructured"
sling:resourceType="granite/ui/components/coral/foundation/form/textarea"
fieldLabel="OG Description"
name="./ogDescription"/>
<ogImage
jcr:primaryType="nt:unstructured"
sling:resourceType="granite/ui/components/coral/foundation/form/textfield
```

8. What is extraclientlib add it this multi field component

The extraclientlib property adds additional client libraries (CSS, JS) to the multi-field component, allowing custom styling and JavaScript logic.

Why Use extraClientLibs?

- Helps extend functionality without modifying core component clientlibs.
- Useful for adding custom JavaScript or styles specific to a component.
- Allows separation of concerns, keeping core and additional scripts/styles modular.
- Makes debugging and maintenance easier by loading external scripts as needed