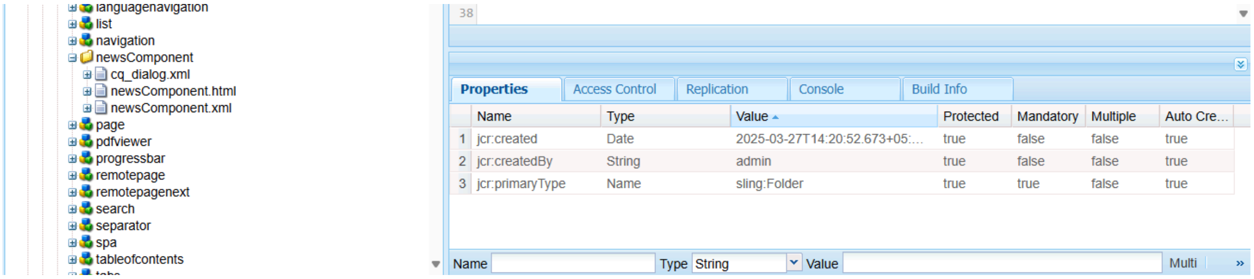
20/03/2025 - TASKS

1. Create a New Component for News

Steps:

1. Navigate to **CRXDE Lite** → `/apps/myTraining/components/`
2. Create a new component folder named `newsComponent`
3. Inside the `newsComponent` folder, create the following files:
    - `newsComponent.html` → **HTL template for rendering the component**
    - `newsComponent.xml` → **Defines the component properties**
    - `_cq_dialog.xml` → **Configures the dialog for authoring**
    - `NewsComponent.java` → **Sling Model (in core bundle)**



```
⊞ languagenavigation
⊞ list
⊞ navigation
⊟ newsComponent
    ⊞ cq_dialog.xml
    ⊞ newsComponent.html
    ⊞ newsComponent.xml
⊞ page
⊞ pdfviewer
⊞ progressbar
⊞ remotepage
⊞ remotepagenext
⊞ search
⊞ separator
⊞ spa
⊞ tableofcontents
```

	Name	Type	Value ▲	Protected	Mandatory	Multiple	Auto Cre…
1	jcr:created	Date	2025-03-27T14:20:52.673+05:…	true	false	false	true
2	jcr:createdBy	String	admin	true	false	false	true
3	jcr:primaryType	Name	sling:Folder	true	true	false	true

NewsComponent.java (Sling Model)

```
package com.myTraining.core.models;
import com.adobe.cq.sightly.WCMUsePojo;
import com.adobe.cq.wcm.core.components.models.Component;
import org.apache.sling.models.annotations.Default;
import org.apache.sling.models.annotations.Model;
import org.apache.sling.models.annotations.injectorspecific.ValueMapValue;
import javax.inject.Inject;

@Model(adaptables = { Component.class })
```

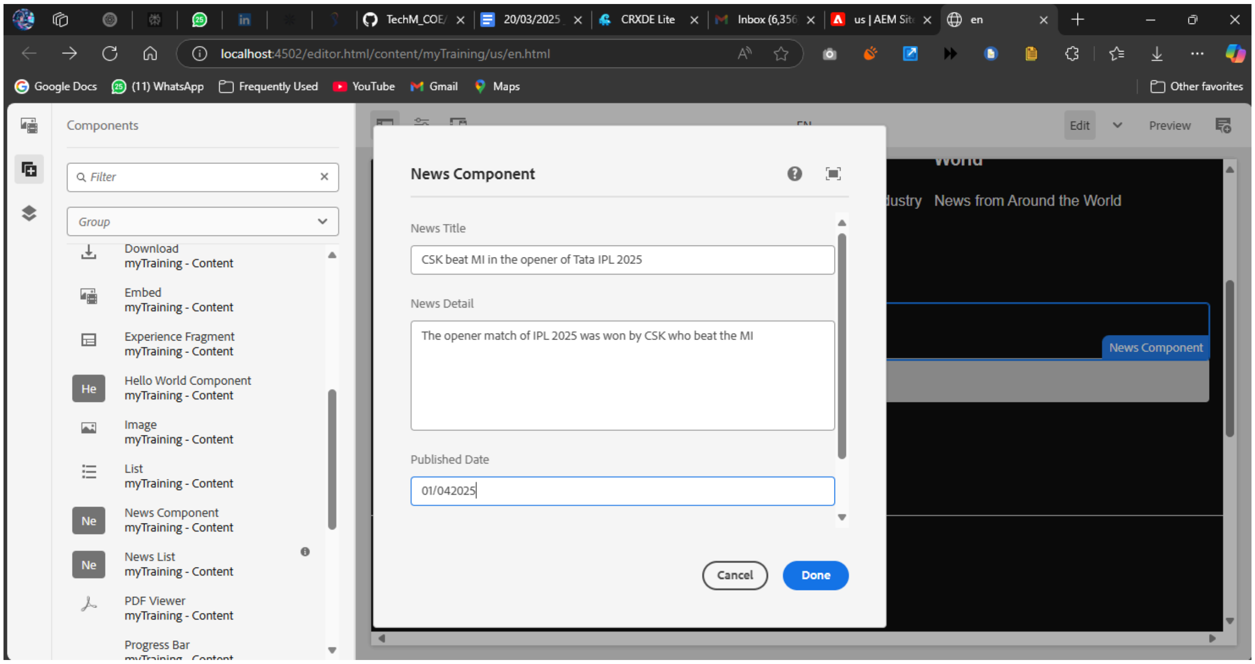
```
public class NewsComponent {

    @Inject
    @Default(values = "Default Title")
    private String title;

    @Inject
    @Default(values = "Default News Detail")
    private String newsDetail;

    @Inject
    @Default(values = "2025-03-20")
    private String publishedDate;

    @Inject
    @Default(values = "Default Source")
    private String source;

    public String getTitle() {
        return title;
    }

    public String getNewsDetail() {
        return newsDetail;
    }

    public String getPublishedDate() {
        return publishedDate;
    }

    public String getSource() {
        return source;
    }
}
```

newsComponent.html (HTL Template)

```
<div class="cop-news-component">
    <h2 class="news-title">${properties.title}</h2>
    <p class="news-detail">${properties.newsDetail}</p>
    <p class="news-date">Published on: ${properties.publishedDate}</p>
    <p class="news-source">Source: ${properties.source}</p>
</div>
```

cq_dialog.xml (Dialog for Authoring)

```
<?xml version="1.0" encoding="UTF-8"?>
<jcr:root
    xmlns:sling="http://sling.apache.org/jcr/sling/1.0"
    xmlns:cq="http://www.day.com/jcr/cq/1.0"
    xmlns:jcr="http://www.jcp.org/jcr/1.0"
    jcr:primaryType="cq:Dialog"
    cq:dialogMode="floating"
    title="News Component"
    helpPath="help/using/newsComponent.html">
    <items jcr:primaryType="cq:Panel">
        <items jcr:primaryType="cq:WidgetCollection">
            <title
                jcr:primaryType="cq:Widget"
                fieldLabel="News Title"
                name="./title"
                xtype="textfield"/>
            <newsDetail
                jcr:primaryType="cq:Widget"
                fieldLabel="News Detail"
                name="./newsDetail"
                xtype="textarea"/>
            <publishedDate
                jcr:primaryType="cq:Widget"
                fieldLabel="Published Date"
                name="./publishedDate"
                xtype="datetime"/>
            <source
                jcr:primaryType="cq:Widget"
                fieldLabel="Source"
                name="./source"
                xtype="textfield"/>
        </items>
    </items>
</jcr:root>
```



News Component

News Title: CSK beat MI in the opener of Tata IPL 2025

News Detail: The opener match of IPL 2025 was won by CSK who beat the MI

Published Date: 01/042025

2. Create a Multifield Component (Multiple News)

Steps:

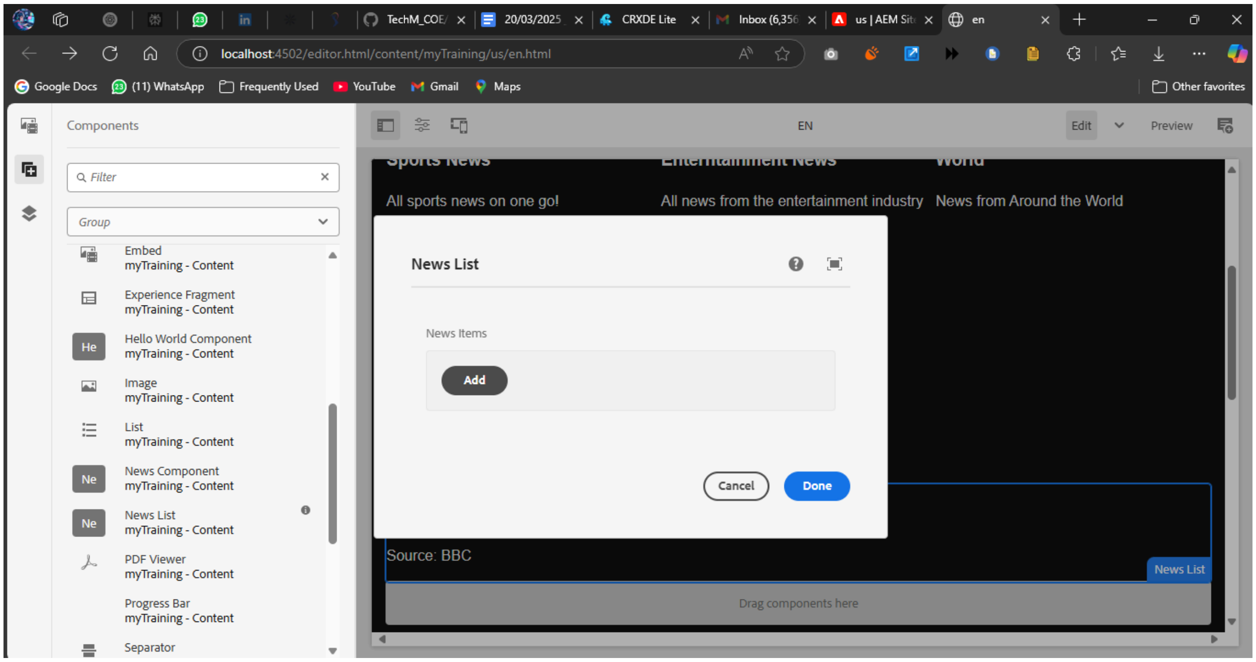
1. Create a new component folder `multiNewsComponent`
2. Add a `multiNewsComponent.html` file.
3. Modify the **Sling Model** to support a multifield.

MultiNewsComponent.java

```
package com.myTraining.core.models;
import org.apache.sling.models.annotations.Model;
import org.apache.sling.models.annotations.injectorspecific.ChildResource;
import javax.inject.Inject;
import java.util.List;
@Model(adaptables = Resource.class)
public class MultiNewsComponent {
    @ChildResource
    private List<NewsItem> newsList;

    public List<NewsItem> getNewsList() {
        return newsList;
    }
    public static class NewsItem {
        @Inject
        private String title;

        @Inject
        private String source;

        public String getTitle() {
            return title;
        }
        public String getSource() {
            return source;
        }
    }
}
```

multiNewsComponent.html

```
<div class="multi-news-component">
    <ul>
        <sly data-sly-list.news="${resource.children}">
            <li>
                <h2>${news.title}</h2>
                <p>Source: ${news.source}</p>
            </li>
        </sly>
    </ul>
</div>
```



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

Create a clientlib folder:

/apps/myTraining/clientlibs/newsComponent

clientlibs/css/style.css

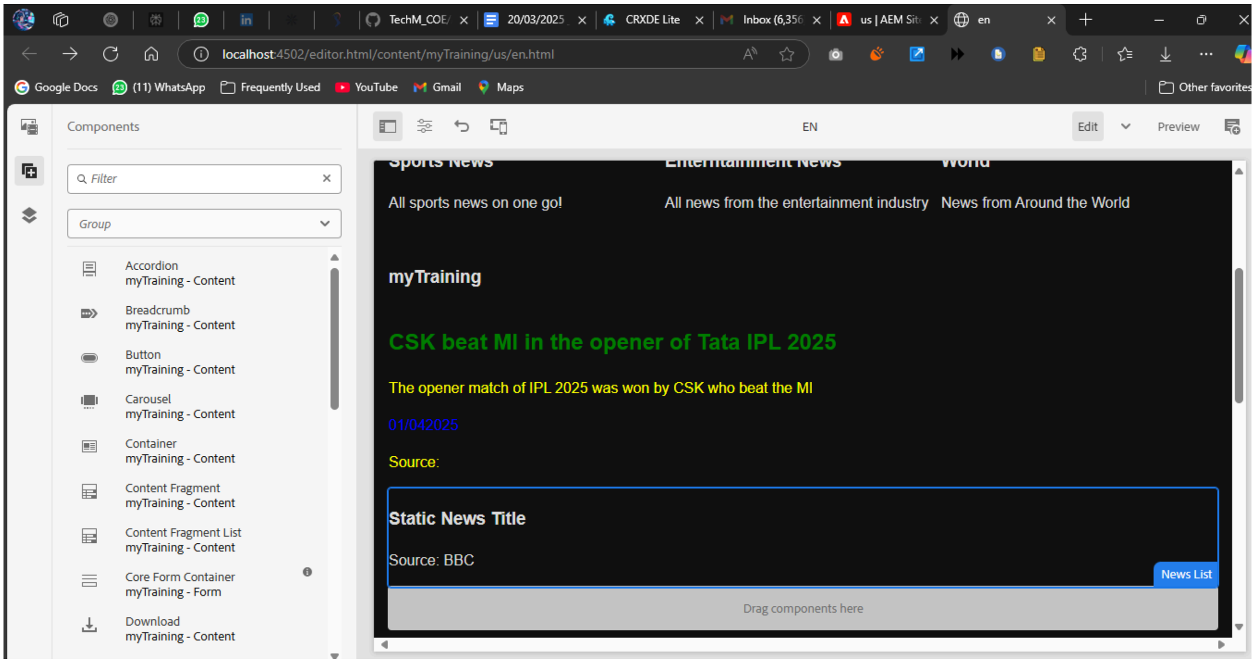
```
.cop-news-component .news-title {
    color: green;
}

.cop-news-component .news-detail {
    color: yellow;
}

.cop-news-component .news-date {
    color: black;}
```

clientlibs/js/script.js

```
console.log("News Component Loaded");
```

clientlibs/.content.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<jcr:root
    xmlns:sling="http://sling.apache.org/jcr/sling/1.0"
    xmlns:jcr="http://www.jcp.org/jcr/1.0"
    jcr:primaryType="cq:ClientLibraryFolder"
    categories="myTraining.newsComponent"
    dependencies="cq.jquery">
</jcr:root>
```



Sports News | Entertainment News | World

All sports news on one go! | All news from the entertainment industry | News from Around the World

myTraining

CSK beat MI in the opener of Tata IPL 2025

The opener match of IPL 2025 was won by CSK who beat the MI

01/042025

Source:

Static News Title

Source: BBC

4. Create a Base Page Component

Create a **basePage** component.

basePage.html

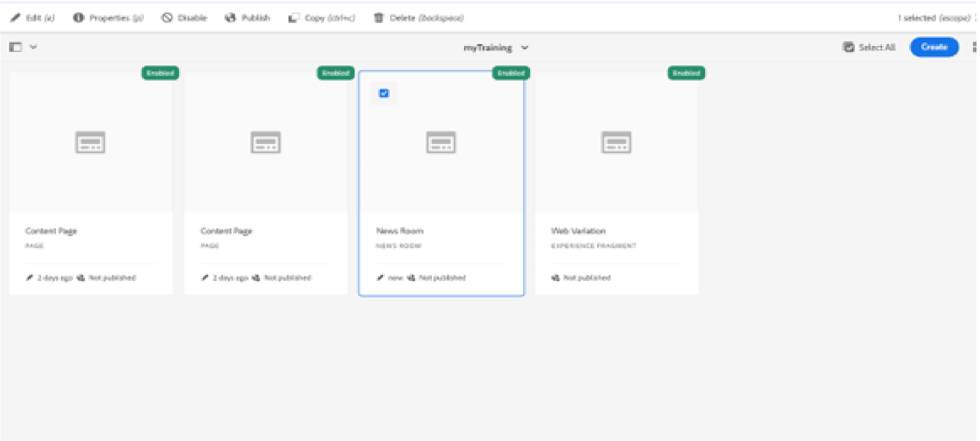
```
<head>
    <meta property="og:title" content="${properties.ogTitle}">
    <meta property="og:description" content="${properties.ogDescription}">
    <meta property="og:image" content="${properties.ogImage}">
</head>
```

5. Create Global Page Properties

Modify the page properties to include OG metadata.

_cq_dialog.xml

```
<items jcr:primaryType="cq:WidgetCollection">
   <ogTitle jcr:primaryType="cq:Widget" fieldLabel="OG Title" name="./ogTitle" xtype="textfield"/>
   <ogDescription jcr:primaryType="cq:Widget" fieldLabel="OG Description" name="./ogDescription" xtype="textarea"/>
   <ogImage jcr:primaryType="cq:Widget" fieldLabel="OG Image Path" name="./ogImage" xtype="pathfield"/>
</items>
```



6. What is `extraClientLibs`?

- `extraClientLibs` is an **AEM feature** that allows including additional client libraries at runtime.

- It is useful when you need to **load specific client libraries dynamically**.

- You can add it in **multiNewsComponent**.

Adding extraClientLibs to Multifield Component

Modify `_cq_dialog.xml`:

```
<extraClientLibs
   jcr:primaryType="nt:unstructured"
   extraClientLibs="[myTraining.newsComponent]"
   xtype="checkbox"
   fieldLabel="Include Extra Clientlibs"/>
```