# **AEM Training - Day 3 Assignment (20-03-2025)**

1. Create a New Component with News Title, News Detail, Published Date, and Source Using Sling Model

#### **Answer:**

We will create a **News Component** using the **Sling Model** to display:

- News Title (h2)
- News Detail (p)
- Published Date
- Source

#### Steps:

- Create a new component at: /apps/myTraining/components/news
- 2. Implement a **Sling Model** for this component.
- 3. Map component fields: title, detail, date, source.
- 4. Update **news.html** to display these fields.

# **Code Snippets**

@Inject

#### NewsModel.java

```
java
CopyEdit
@Model(adaptables = Resource.class)
public class NewsModel {
    @Inject
    private String title;
```

```
private String detail;
  @Inject
  private String date;
  @Inject
  private String source;
  public String getTitle() { return title; }
  public String getDetail() { return detail; }
  public String getDate() { return date; }
  public String getSource() { return source; }
}
news.html
html
CopyEdit
<div class="news-item">
  <h2>${newsModel.title}</h2>
  ${newsModel.detail}
  <span>${newsModel.date}</span>
  <small>${newsModel.source}</small>
</div>
```

# 2. Create a Multi-field Component (Multiple News) Using Sling Model

#### Answer:

A **multi-field component** allows authors to dynamically add **multiple news items**.

#### Steps:

- Create a multi-field component at: /apps/myTraining/components/multi-news
- 2. Implement a Sling Model List.
- 3. Map fields: title and source.
- 4. Update multi-news.html to loop through news items.

# **Code Snippets**

</div>

```
MultiNewsModel.java
```

```
java
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@Model(adaptables = Resource.class)
public class MultiNewsModel {
  @Inject
  @Children
  private List<NewsModel> newsList;
  public List<NewsModel> getNewsList() { return newsList; }
}
multi-news.html
html
CopyEdit
<div class="multi-news">
  <sly data-sly-list.newsItem="${multiNewsModel.newsList}">
    <h2>${newsItem.title}</h2>
    ${newsItem.source}
  </sly>
```

## 3. Create Clientlibs for News Component

#### **Answer:**

**Clientlibs** are used to apply styles and scripts to components.

## Steps:

- Create a clientlib at: /apps/myTraining/clientlibs/news
- 2. Include CSS and JS files.
- 3. Add clientlib categories in the component.

# **Code Snippets**

```
clientlibs/news/css.txt
```

```
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```

news.css

#### news.css

CSS

## CopyEdit

```
.news-item h2 { color: green; }
.news-item p { color: yellow; }
.news-item span { color: black; }
```

# 4. Apply Green Color to Heading (h2), Yellow to News Detail (p), and Black to Date (span)

#### **Answer:**

This is done using **CSS** inside **clientlibs/news**.

## **Code Snippet:**

CSS

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```
.news-item h2 { color: green; }
.news-item p { color: yellow; }
.news-item span { color: black; }
```

# 5. Add Component Style (cop-news-component) in News Component

#### Answer:

We will add a **custom style name** to the **News Component**.

#### Steps:

1. Navigate to:

/apps/myTraining/components/news in CRXDE Lite.

- 2. Update cq:dialog to include the **style property**.
- 3. Modify news.html to include the CSS class.

#### **Code Snippet:**

#### news.html

html

```
CopyEdit
```

```
<div class="cop-news-component">
  <h2>${properties.newsTitle}</h2>
  ${properties.newsDescription}
</div>
```

## 6. Create a Base Page Component and Add Metadata for OG Tags

#### **Answer:**

We will create a **metadata.html** file to print **OG meta tags**.

#### Steps:

- 1. Create metadata.html inside the basepage component.
- 2. Add **OG metadata properties**.

3. Link metadata.html in basepage.html.

## **Code Snippet (metadata.html)**

html

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

# 7. Create Custom Page Properties (Global Properties)

#### **Answer:**

We will add **three custom fields** (og:title, og:description, og:image path) in **Page Properties**.

#### Steps:

- Navigate to: /apps/myTraining/components/page/basepage/cq:dialog.
- 2. Add a tab named **Global Properties**.
- 3. Create fields:
  - ogTitle
  - ogDescription
  - o oglmage

# 8. What is extraClientLibs and How to Use It in a Multi-field Component?

#### Answer:

extraClientLibs is used to **include additional CSS & JavaScript files** in a component.

## **Code Snippet:**

xml

# CopyEdit

```
<extraClientLibs jcr:primaryType="nt:unstructured">
        <css>
            <item0>clientlibs/myTraining/styles.css</item0>
            </css>
</extraClientLibs>
```

**★** Conclusion

This assignment covered essential **AEM development tasks**, including:

- Creating a News Component with Sling Models
- Implementing a Multi-field Component
- **✓** Using Clientlibs for Styling & Scripts
- Adding Custom Styles to Components
- Creating a Base Page with OG Metadata
- Defining Global Page Properties
- **✓** Using extraClientLibs for Additional Resources