Date: 20-3-25

- 1. Create A new component which have news title(should print as h2), news detail(), published date, source create this component using sling model.
 - a. Create the Component
 - Navigate to /apps/myProject/components/
 - Create a folder named newsComponent

```
Inside newsComponent, add a cq:dialog file for authoring fields.
       cq:dialog
       <jcr:root xmlns:sling="http://www.sling.apache.org/jcr/sling/1.0"</pre>
             xmlns:cq="http://www.day.com/jcr/cq/1.0"
             jcr:primaryType="cq:Dialog"
             xtype="dialog">
          <items jcr:primaryType="cq:Widget">
            <title
sling:resourceType="granite/ui/components/coral/foundation/form/textfield"
              fieldLabel="News Title"
              name="./newsTitle"/>
            <detail
       sling:resourceType="granite/ui/components/coral/foundation/form/textarea"
              fieldLabel="News Detail"
              name="./newsDetail"/>
            <publishedDate</pre>
       sling:resourceType="granite/ui/components/coral/foundation/form/datefield
              fieldLabel="Published Date"
              name="./publishedDate"/>
            <source
sling:resourceType="granite/ui/components/coral/foundation/form/textfield"
              fieldLabel="Source"
              name="./source"/>
          </items>
       </icr:root>
Sling Model(NewsModel.java)
package com.myProject.core.models;
```

import org.apache.sling.api.resource.Resource; import org.apache.sling.models.annotations.Model;

import org.apache.sling.models.annotations.injectorspecific.ValueMapValue;

```
@Model(adaptables = Resource.class)
public class NewsModel {
  @ValueMapValue
  private String newsTitle;
  @ValueMapValue
  private String newsDetail;
  @ValueMapValue
  private String publishedDate;
  @ValueMapValue private String source;
  public String getNewsTitle() {
    return newsTitle;
  }
  public String getNewsDetail() {
    return newsDetail;
  }
  public String getPublishedDate() {
    return publishedDate;
  }
  public String getSource() {
    return source;
  }
```

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

Multi-field news component in Adobe Experience Manager (AEM) using a Sling Model:

a. Update cq:dialog to support multifield

```
<jcr:root xmlns:sling="http://www.sling.apache.org/jcr/sling/1.0"
    jcr:primaryType="cq:Dialog"
    xtype="dialog">
    <items jcr:primaryType="cq:Widget">
        <newsItems
    sling:resourceType="granite/ui/components/coral/foundation/form/multifield"
        fieldLabel="News Items"
        name="./newsItems">
        <field

sling:resourceType="granite/ui/components/coral/foundation/form/textfield"
        fieldLabel="Title"</pre>
```

```
name="./title"/>
          <field
 sling:resourceType="granite/ui/components/coral/foundation/form/textfield"
            fieldLabel="Source"
            name="./source"/>
       </newsItems>
     </items>
   </jcr:root>
b. Create Sling Model (NewsComponentModel.java)
   package com.myProject.core.models;
   import org.apache.sling.api.resource.Resource;
   import org.apache.sling.models.annotations.Model;
   import org.apache.sling.models.annotations.injectorspecific.ChildResource;
   import java.util.List;
   @Model(adaptables = Resource.class)
   public class NewsComponentModel {
     @ChildResource(name = "newsItems")
     private List<NewsItem> newsItems;
     public List<NewsItem> getNewsItems() {
       return newsltems;
     }
     public static class NewsItem {
       @ValueMapValue
       private String title;
       @ValueMapValue
       private String source;
       public String getTitle() {
         return title;
       public String getSource() {
          return source;
       }
     }
   }
c. Update Component HTML (newsComponent.html)
   <sly data-sly-list.newsItem="${newsItems}">
```

```
<h2>${newsItem.title}</h2>
<strong>Source:</strong> ${newsItem.source}

</sly>
```

3. Create clientlibs for news component

Inside clientlibs, create:

- js.txt (to manage JavaScript files)
- css.txt (to manage CSS files)

```
news.js
console.log("News Component Loaded");
news.css
```

```
.news-component {
  font-family: Arial, sans-serif;
}
.news-component h2 {
  color: blue;
```

jcr:content.xml

}

```
<jcr:root xmlns:jcr="http://www.jcp.org/jcr/1.0"
    xmlns:sling="http://www.sling.apache.org/jcr/sling/1.0"
    xmlns:cq="http://www.day.com/jcr/cq/1.0"
    jcr:primaryType="cq:ClientLibraryFolder"
    categories="myProject.newsComponent"
    dependencies="[cq.jquery]"/>
```

newsComponent.html

```
<sly data-sly-use.clientlib="${'com.adobe.granite.ui.clientlibs.ClientLibrary'}" data-sly-call="${clientlib.js @ categories='myProject.newsComponent'}"/> <sly data-sly-call="${clientlib.css @ categories='myProject.newsComponent'}"/>
```

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

Update news.css

```
.news-component h2 {
  color: green; // Heading in green
}
.news-component p {
  color: yellow; // News details in yellow
}
.news-component .published-date {
  color: black; // Published date in black
}
```

newsComponent.html

```
<h2 class="news-title">${properties.newsTitle}</h2>
${properties.newsDetail}
<strong>Published Date:</strong>
${properties.publishedDate}
```

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

```
cq:dialog
```

```
<jcr:root xmlns:sling="http://www.sling.apache.org/jcr/sling/1.0"</pre>
     jcr:primaryType="cq:Dialog"
     xtype="dialog">
  <items jcr:primaryType="cq:Widget">
    <style
      sling:resourceType="granite/ui/components/coral/foundation/form/select"
      fieldLabel="Component Style"
      name="./componentStyle">
      <items jcr:primaryType="nt:unstructured">
        <default
sling:resourceType="granite/ui/components/coral/foundation/form/select/option"
          text="Default"
          value="default"/>
        <custom
sling:resourceType="granite/ui/components/coral/foundation/form/select/option"
          text="Cop News Component"
          value="cop-news-component"/>
      </items>
    </style>
  </items>
</jcr:root>
newsComponent.html
<div class="${properties.componentStyle}">
  <h2>${properties.newsTitle}</h2>
  ${properties.newsDetail}
  <strong>Published Date:</strong> ${properties.publishedDate}
  <strong>Source:</strong> ${properties.source}
</div>
```

- 6. Create a base page component and add new file as metadata so that it can print og:title, og:description and og:image link that file in base page.html

 Create a Metadata File (metadata.html)
- Inside basePage, create metadata.html to store Open Graph metadata.

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

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

```
Modify Sling Model to Fetch Values (PagePropertiesModel.java)

package com.myProject.core.models;

import org.apache.sling.api.resource.Resource;

import org.apache.sling.models.annotations.Model;

import org.apache.sling.models.annotations.injectorspecific.ValueMapValue;

@Model(adaptables = Resource.class)

public class PagePropertiesModel {

    @ValueMapValue

    private String ogTitle;
```

```
@ValueMapValue
private String ogDescription;
@ValueMapValue
private String ogImagePath;
public String getOgTitle() {
   return ogTitle;
}
public String getOgDescription() {
   return ogDescription;
}
public String getOgImagePath() {
```

return oglmagePath;

}

8. What is extraclientlib add it this multi field component

ExtraClientLibs in Adobe Experience Manager (AEM) allow you to dynamically include additional client libraries in a component beyond its predefined dependencies. This helps when certain styles or scripts are required only for specific components.

Update the **MultiNewsModel.java** to fetch the authored client library

package com.myProject.core.models; import org.apache.sling.api.resource.Resource; import org.apache.sling.models.annotations.Model;

```
import org.apache.sling.models.annotations.injectorspecific.ValueMapValue;
@Model(adaptables = Resource.class)
public class MultiNewsModel {
     @ValueMapValue
     private String extraClientLibs;
     public String getExtraClientLibs() {
         return extraClientLibs;
     }
}
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