20/03/2025 - TASKS

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1. Develop a Custom Widget Component

AEM supports custom components for dynamic content management. The Widget component enables users to input details such as name, description, and date.

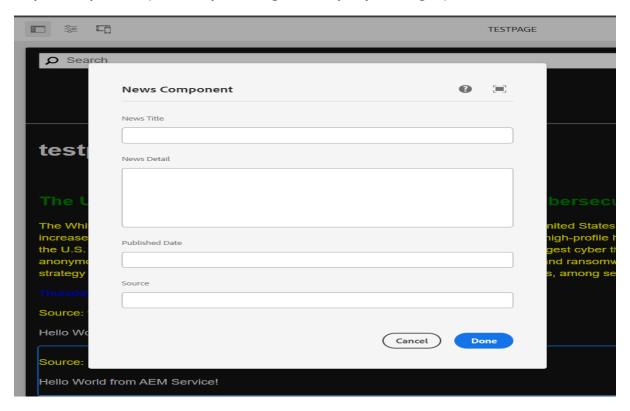
Steps:

- Open CRXDE Lite (http://localhost:4502/crx/de).
- Navigate to /apps/myProject/components and create a folder named widget.
- Inside widget, define component files including widget.html.
- Fetch content dynamically using repository properties.
- Save and activate for usage.

Code Snippet:

</div>

<sly data-sly-call="\${clientLib.js @ categories='myProject.widget'}"/>



2. Implement a Multifield Feature

A multifield component allows authors to input multiple data entries dynamically.

Steps:

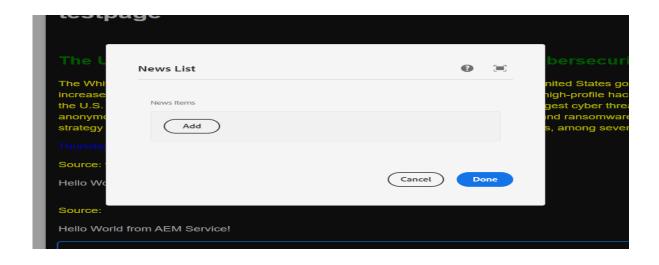
- Create a new component named widgetMultifield under /apps/myProject/components.
- Define a cq:dialog with a multifield widget.
- Configure it to accept dynamic inputs.
- Save and activate the component.

Code Snippet:

WidgetListModel.java

@Model(adaptables = Resource.class, defaultInjectionStrategy = DefaultInjectionStrategy.OPTIONAL)

```
public class WidgetListModel {
  @Inject
  private List<WidgetItem> widgetItems;
  public List<WidgetItem> getWidgetItems() {
    return Optional.ofNullable(widgetItems).orElse(new ArrayList<>());
 }
  public static class WidgetItem {
    @Inject
    private String name;
    @Inject
    private String description;
    public String getName() {
      return name;
    }
    public String getDescription() {
      return description;
    }
  }
}
```



3. Add Clientlibs for Styling and Scripts

Clientlibs in AEM help manage styles and scripts efficiently.

Steps:

- Go to /apps/myProject/clientlibs and create a folder named clientlib-widget.
- Define CSS styles for:
 - Red headings
 - Blue descriptions
 - Black date text
- Link clientlib to the widget component.
- Save and activate.

```
Code Snippet:
.widget-container h2 {
    color: red;
}
.widget-container p {
```

color: blue;

```
.widget-container .widget-date {
  color: black;
}
```

4. Create a Reusable Page Structure

A Base Page Component allows for a standardized structure across multiple pages.

Steps:

- Navigate to /apps/myProject/components and create basepage.
- Define a cq:dialog for configurable properties.
- Structure the template with head, body, and footer sections.
- Save and activate.

Code Snippet:

```
<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:Component"
    jcr:title="Base Page"
    componentGroup="myProject"/>
```



5. Configure Site-wide Settings

Global Page Properties allow managing branding elements like site titles and logos.

Steps:

- Create a template-type component for global configurations.
- Define a cq:dialog for site-wide settings.
- Ensure properties can be accessed dynamically.
- Save and activate.

```
Code Snippet:
```

```
<jcr:root xmlns:sling="http://sling.apache.org/jcr/sling/1.0"</pre>
     xmlns:cq="http://www.day.com/jcr/cq/1.0"
     xmlns:jcr="http://www.jcp.org/jcr/1.0"
     jcr:primaryType="cq:Component"
     jcr:title="Global Configurations"
     componentGroup="myProject"/>
cq:dialog
<jcr:root xmlns:sling="http://sling.apache.org/jcr/sling/1.0"</pre>
     xmlns:cq="http://www.day.com/jcr/cq/1.0"
     xmlns:jcr="http://www.jcp.org/jcr/1.0"
     jcr:primaryType="nt:unstructured">
  <items jcr:primaryType="nt:unstructured">
    <siteTitle jcr:primaryType="nt:unstructured"
sling:resourceType="granite/ui/components/coral/foundation/form/textfield"
fieldLabel="Site Title" name="./siteTitle"/>
    <siteLogo jcr:primaryType="nt:unstructured"
sling:resourceType="granite/ui/components/coral/foundation/form/pathfield"
fieldLabel="Site Logo Path" name="./siteLogo"/>
```

6. Understanding extraClientLibs Usage

extraClientLibs is a property in AEM for dynamic loading of additional scripts and styles.

Use Cases:

- Loading specific styles/scripts only for targeted templates or components.
- Extending client libraries without modifying core configurations.

Implementation Steps:

- Define extra client libraries inside the component/template.
- Configure extraClientLibs to load required CSS/JS.
- Ensure dependencies are managed properly.
- Save and verify integration.