19/03/2025 - TASKS

Table of Contents

1. What is DAM and Why We Use It?

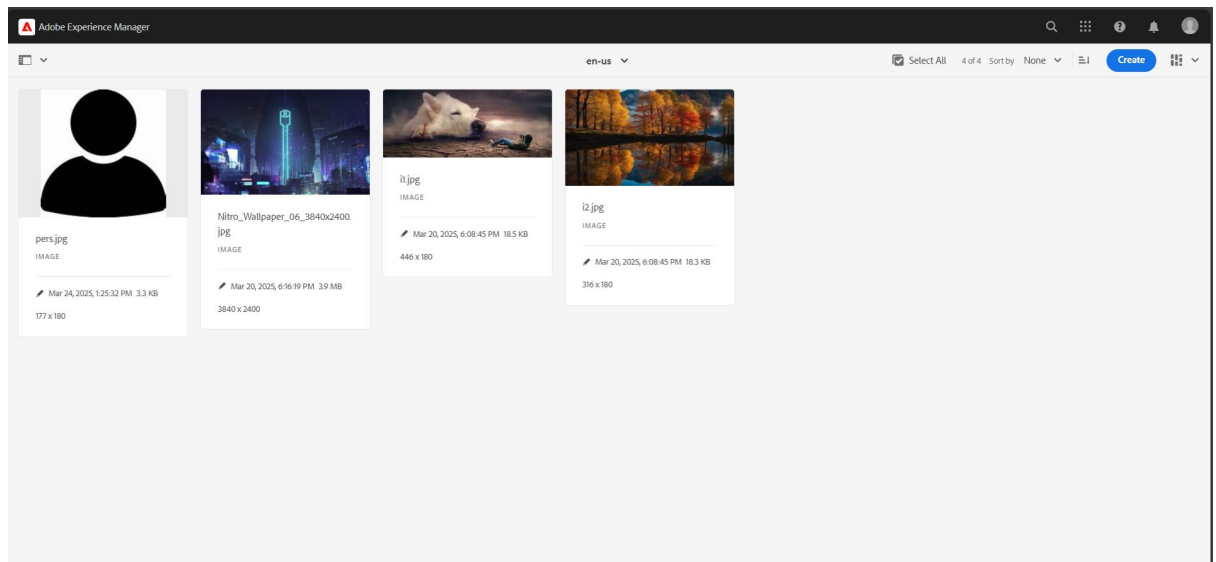Digital Asset Management (DAM) in AEM helps manage, store, and retrieve digital assets efficiently.

Steps:

1. Open AEM and navigate to **Tools → Assets → DAM**.

2. Create a new folder to organize assets.

3. Upload images, videos, or documents.

4. Manage metadata and permissions for assets.

5. Retrieve assets using AEM components.

2. Create Folder and Upload Images

Steps:

1. Navigate to **AEM → Assets**.

2. Click **Create → Folder**, give it a name, and save.

3. Open the folder and click **Upload** to add images.
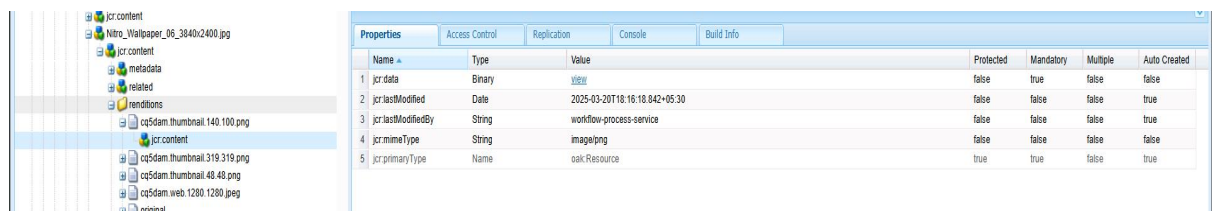
4. Ensure images are properly tagged and categorized.

3. Check Renditions in AEM

Renditions allow optimized delivery of images.

Steps:

1. Upload an image to DAM.

2. Open the image and go to the **Renditions** tab.

3. Verify different sizes generated for various use cases.

4. Modify HelloWorld Component

The HelloWorld component should print **First Name** and **Last Name** dynamically.
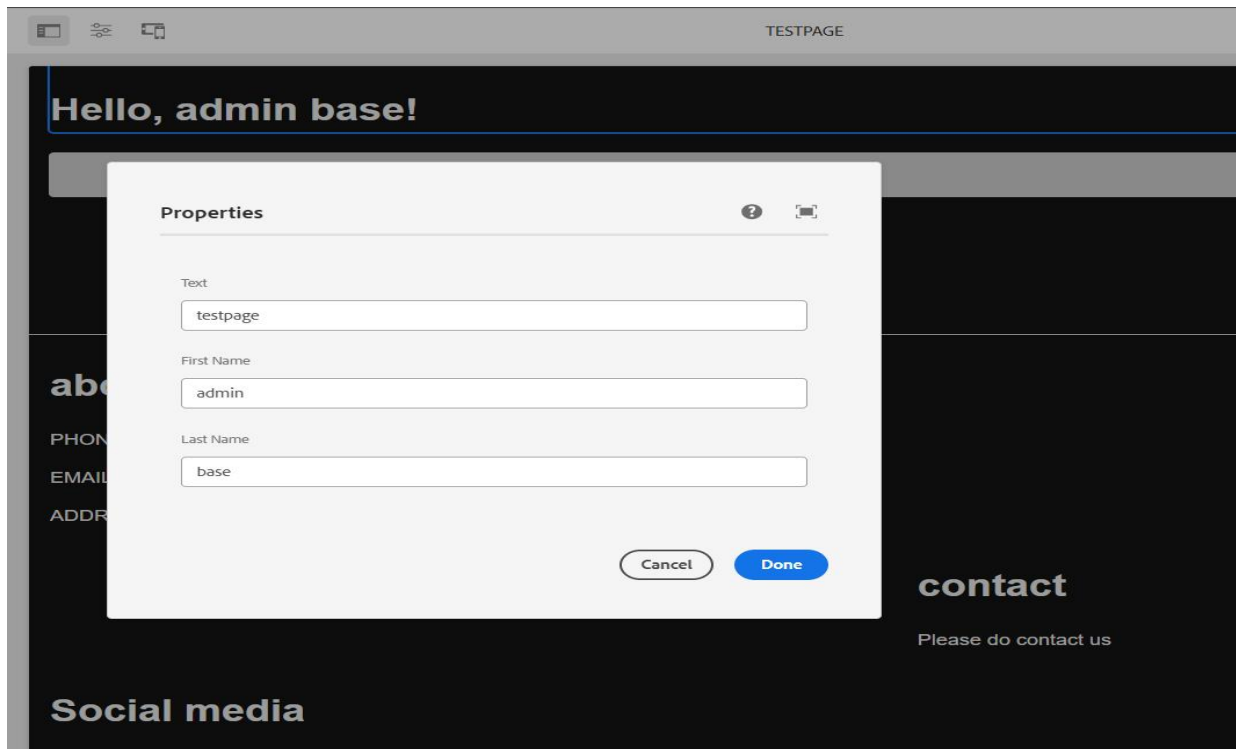
Steps:

1. Open **CRXDE Lite** (http://localhost:4502/crx/de).

2. Navigate to /apps/myTraining/components/helloworld.

3. Update **cq:dialog** to accept firstName and lastName.

cq:dialog Structure

```xml
<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="nt:unstructured">
   <items jcr:primaryType="nt:unstructured">
     <firstName
        jcr:primaryType="nt:unstructured"
        sling:resourceType="granite/ui/components/coral/foundation/form/textfield"
        fieldLabel="First Name"
        name="./firstName"/>
     <lastName
        jcr:primaryType="nt:unstructured"
        sling:resourceType="granite/ui/components/coral/foundation/form/textfield"
        fieldLabel="Last Name"
        name="./lastName"/>
   </items>
</jcr:root>
```

helloWorld.html

```html
<div class="hello-world">
   <h1>Hello, ${properties.firstName} ${properties.lastName}</h1>
</div>
```

5. Use @ValueMapValue in HelloWorldModel

Steps:

1. Create a Sling Model for HelloWorld.

2. Use @ValueMapValue to retrieve firstName and lastName properties.

HelloWorldModel.java

```java
@Model(adaptables = Resource.class)
public class HelloWorldModel {
    @ValueMapValue
    private String firstName;

    @ValueMapValue
    private String lastName;

    public String getFirstName() { return firstName; }
    public String getLastName() { return lastName; }
}
```

6. Create AEM Packages Using Package Manager

Steps:

1. Open **Package Manager** (http://localhost:4502/crx/packmgr/index.jsp).

2. Click **Create Package**, define group and name.

3. Add content paths to be included.

4. Build and download the package.

7. Configure Replication Agent & Publish Page

Steps:

1. Open **AEM → Tools → Deployment → Replication**.

2. Configure the replication agent for publishing.

3. Test by publishing a page and verifying on the publish instance.