

## 19/03/2025 - TASKS

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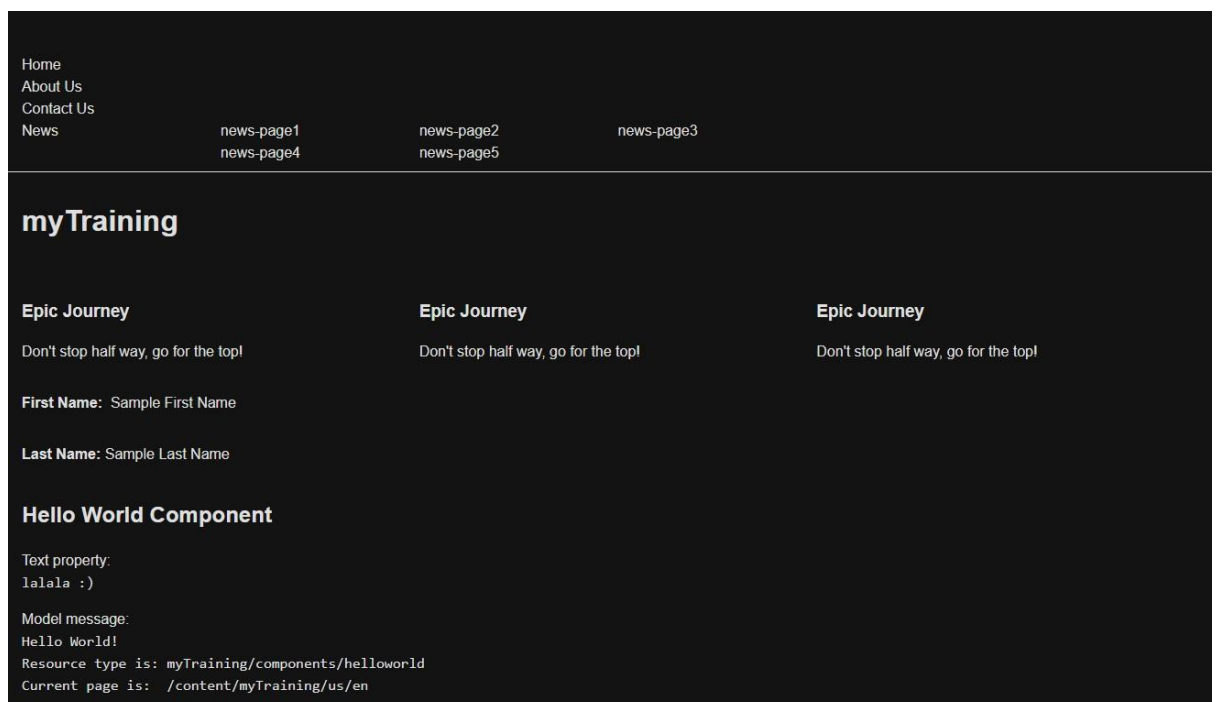
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### 1. Understanding DAM and Its Importance

Digital Asset Management (DAM) in AEM is used for organizing, storing, and retrieving digital files efficiently.

#### Steps:

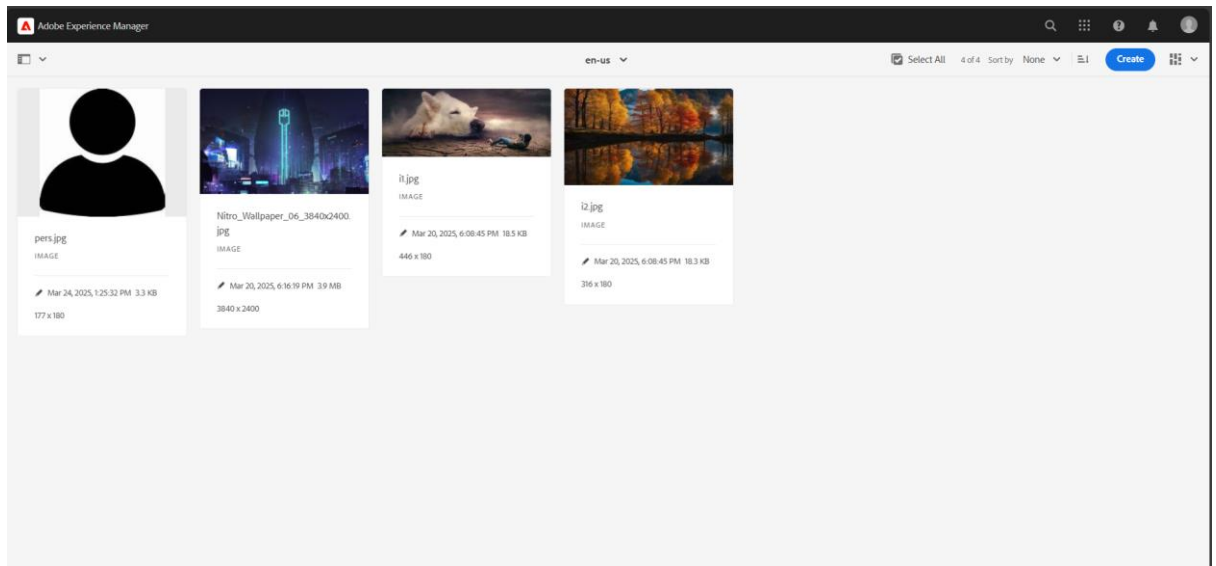
1. Open AEM and navigate to Tools → Assets → DAM.
2. Create a new folder to keep assets organized.
3. Upload images, videos, or other digital resources.
4. Adjust metadata and permissions as needed.
5. Use AEM components to access stored assets.



## 2. Creating Folders and Uploading Images

### Steps:

1. Go to AEM → Assets.
2. Click on Create → Folder, name it, and save.
3. Open the newly created folder and click Upload to add images.
4. Ensure proper tagging and categorization for easy retrieval.

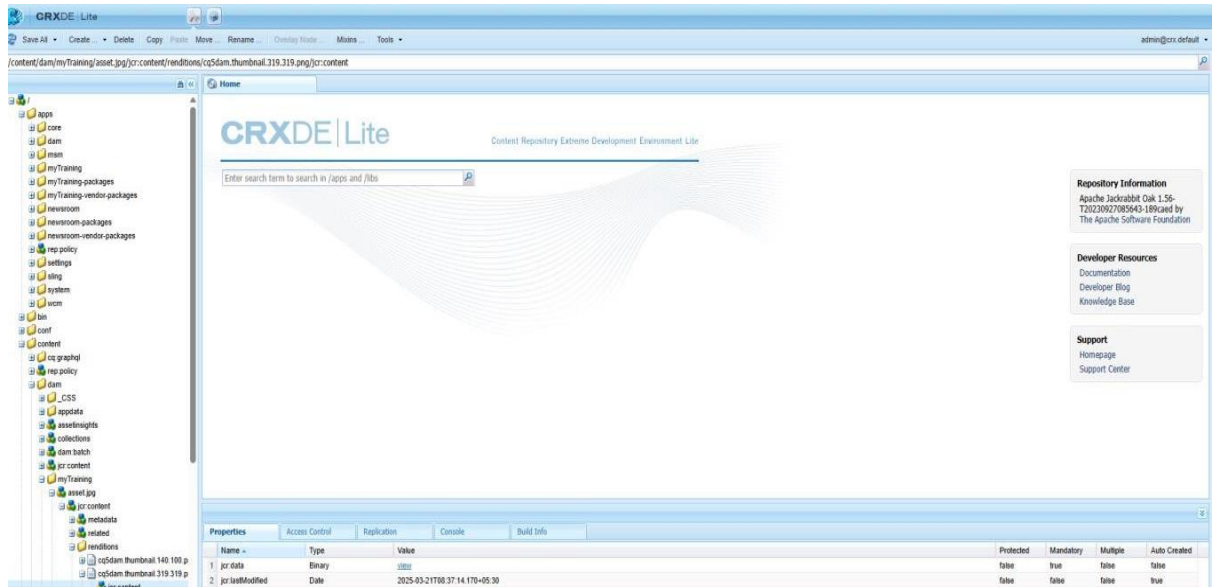


## 3. Viewing Renditions in AEM

Renditions are different variations of an image, optimized for various formats and sizes.

### Steps:

1. Upload an image to DAM.
2. Open the image and navigate to the Renditions section.
3. Check the automatically generated versions for different use cases.



#### 4. Updating the HelloWorld Component

Modify the HelloWorld component to dynamically display First Name and Last Name.

Steps:

1. Open CRXDE Lite (<http://localhost:4502/crx/de>).
2. Navigate to `/apps/myTraining/components/helloworld`.
3. Modify `cq:dialog` to include input fields for `firstName` and `lastName`.

Updated `cq:dialog` Structure:

xml

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```
<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>

```

Updated helloWorld.html Template:

html

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```

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

```

## 5. Implementing @ValueMapValue in HelloWorldModel

Steps:

1. Develop a Sling Model for the HelloWorld component.
2. Use @ValueMapValue to access the firstName and lastName properties.

Updated HelloWorldModel.java:

java

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```

@Model(adaptables = Resource.class)

public class HelloWorldModel {

    @ValueMapValue
    private String firstName;

    @ValueMapValue
    private String lastName;

    public String getFirstName() { return firstName; }

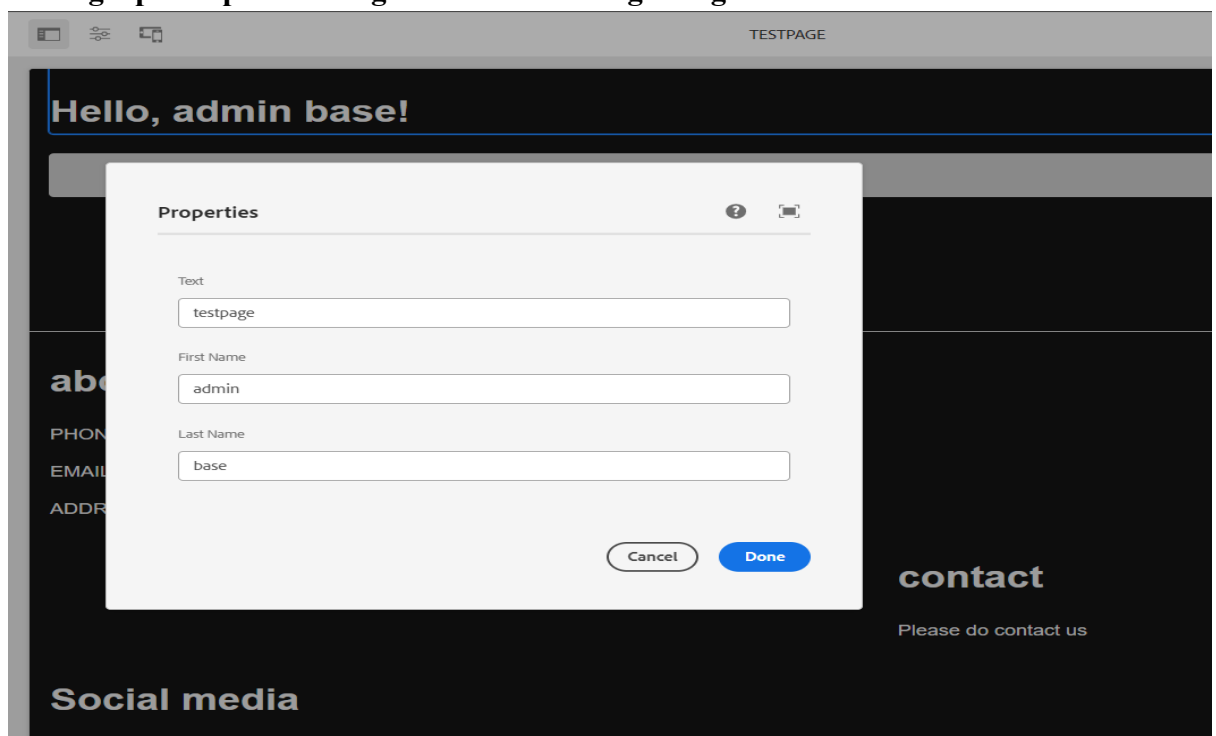
```

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

## 6. Generating AEM Packages via Package Manager

Steps:

1. Open Package Manager (<http://localhost:4502/crx/packmgr/index.jsp>).
2. Click Create Package, then define a group and name.
3. Select the content paths that need to be included.
4. Build and download the package for deployment.
6. Setting Up a Replication Agent and Publishing a Page



Steps:

1. Navigate to AEM → Tools → Deployment → Replication.
2. Set up the replication agent to enable content publishing.
3. Test by publishing a page and verifying its availability in the Publish instance.