

1 . What is DAM and Why is it Used?

Digital Asset Management (DAM) is a system designed to store, organize, and distribute digital assets like images, videos, and documents efficiently. In Adobe Experience Manager (AEM), DAM plays a crucial role in:

- Structuring and centralizing digital resources.
- Simplifying asset retrieval and reuse.
- Enhancing asset delivery through various renditions.
- Maintaining version control and managing access permissions effectively.

2 . What Are Renditions in AEM DAM?

Renditions refer to multiple versions of an image that AEM's Digital Asset Management (DAM) system generates automatically. These variations ensure optimized asset delivery across different devices, screen sizes, and use cases. By creating renditions, AEM helps improve performance and responsiveness when displaying images on websites and applications.

How to View Renditions in AEM:

To check the renditions of an uploaded image, follow these steps:

1. **Access the Assets Section** – Navigate to **AEM > Assets > Files** in the AEM interface.
2. **Open an Image** – Select an image that has been uploaded to the DAM repository.
3. **View Renditions** – Click on the **Renditions** option to see the different sizes and formats automatically generated by AEM.

These renditions allow developers and content managers to efficiently use optimized images without manually resizing or modifying them.

3 . Adding First Name and Last Name Fields in the HelloWorld Component

To enhance the **HelloWorld** component in AEM, follow these steps to include **First Name** and **Last Name** fields:

Steps to Add FirstName and LastName Fields

1. **Open the HelloWorld Component:**
 - Navigate to the **AEM Component Editor** and open the **HelloWorld** component dialog.

2. Insert Two Fields:

- Add the following fields to capture user input:
 - **First Name** (firstName)
 - **Last Name** (lastName)

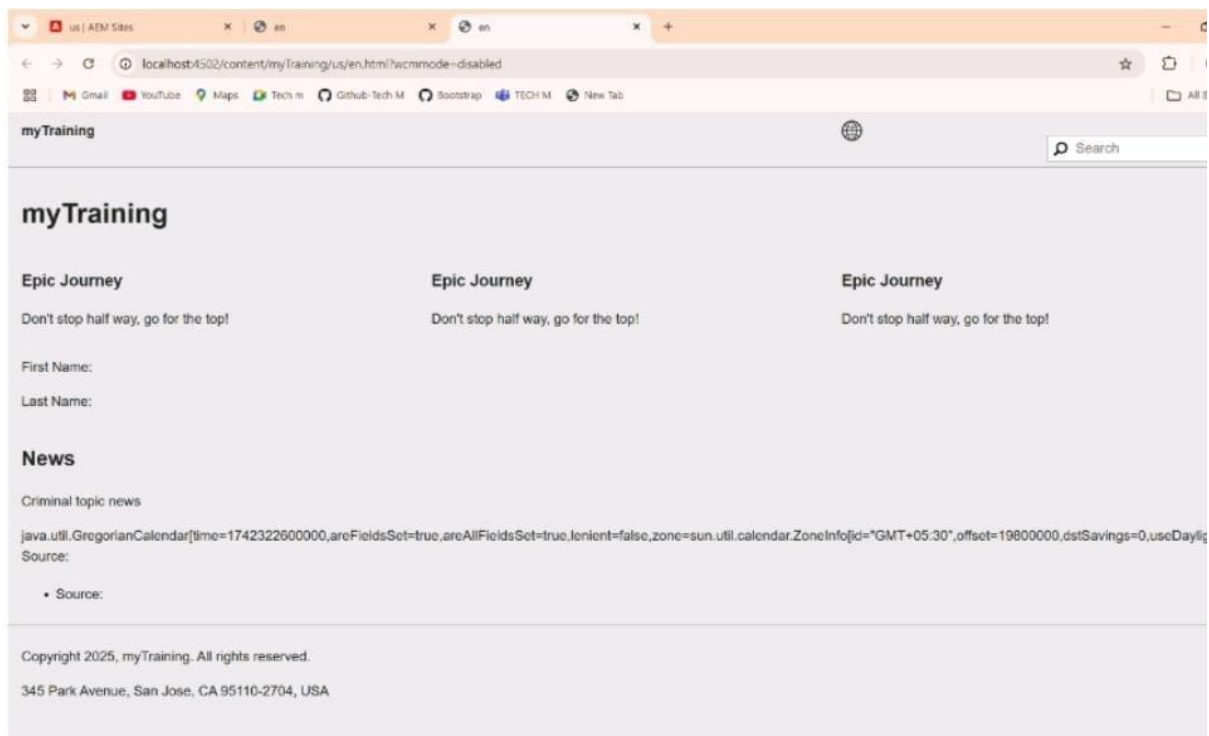
3. Modify helloworld.html to Display Values:

- Update the **helloworld.html** file to print the values stored in these fields using properties.

4 . Example Code for helloworld.html

```
<p>First Name: ${properties.firstName}</p>
```

```
<p>Last Name: ${properties.lastName}</p>
```



5 . Implementing @ValueMapValue in HelloWorldModel

To enhance the **HelloWorldModel** Sling model in AEM, modify it to use the **@ValueMapValue** annotation for retrieving property values.

Updated HelloWorldModel.java Code

```
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 HelloWorldModel {

    @ValueMapValue
    private String firstName;

    @ValueMapValue
    private String lastName;

    public String getFirstName() {

        return firstName;

    }

    public String getLastName() {

        return lastName;

    }

}
```

Explanation:

- The class is annotated with `@Model(adaptables = Resource.class)`, making it adaptable to AEM resources.
- The `@ValueMapValue` annotation retrieves **firstName** and **lastName** values from the component properties.
- Getter methods (`getFirstName()` and `getLastName()`) provide access to these values for use in the component.

Hello World Component

Text property:
Hello AEM World

Model message:
Hello World!
Resource type is: myTraining/components/helloworld
Current page is: /content/myTraining/us/en/news-3

Hello, Ranjith A!

6 . Why Use Package Manager? (Creating Packages in AEM)

The **Package Manager** in AEM is a vital tool that enables:

- **Seamless transfer** of components and assets between different AEM instances.
- **Consistent deployment** across environments.
- **Efficient backup** of assets and configurations for safekeeping.

Steps to Create Packages in AEM

1. Creating a DAM Package (Images)

This package stores and transfers digital assets like images.

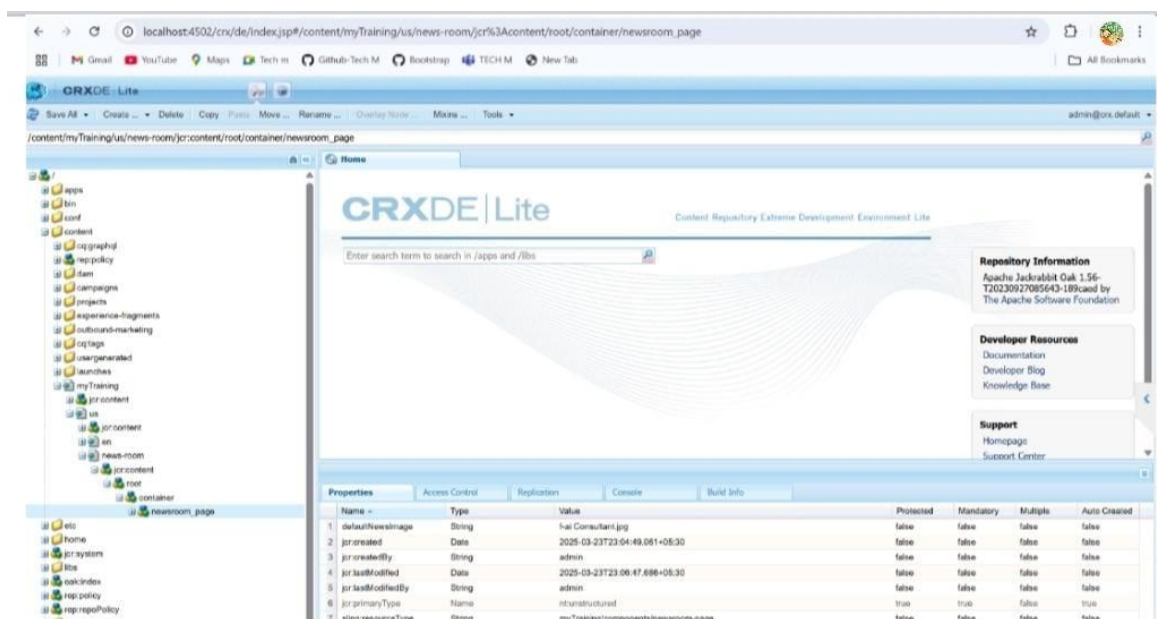
- Navigate to **AEM > Tools > Deployment > Package Manager**.
- Click **Create Package**.
- Set the package name as **DAM-Images-Package**.
- Specify the path: **/content/dam/myTraining/us/en-us**.
- Build and download the package.

2. Creating a HelloWorld Component Package

This package includes the HelloWorld component for deployment or reuse.

- Go to **Package Manager** and select **Create Package**.
- Name the package **HelloWorld-Component-Package**.
- Assign the path: **/apps/myTraining/components/helloworld**.
- Build and download the package.

Using the **Package Manager**, developers and administrators can efficiently manage and migrate content between AEM instances, ensuring smooth and controlled deployments.



7 . Configuring the Replication Agent and Publishing a Page in AEM

Replication in AEM ensures that content from the **author** environment is transferred to the **publish** instance, making it accessible to end users. Follow these steps to configure a replication agent and publish a page.

Step 1: Setting Up the Replication Agent

1. Navigate to **AEM > Tools > Deployment > Replication**.
2. Select **Agents on Author** to view available replication agents.
3. Open and edit the **default replication agent**.
4. Configure the **Transport URI** as:

bash

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```
http://localhost:4503/bin/receive
```

(This assumes the default AEM publish instance setup.)

5. Click **Test Connection** to verify the setup, then **Save** the configuration.

Step 2: Publishing a Page

1. Go to **AEM > Sites**.
2. Choose the page you want to publish.
3. Click the **Publish** button to make it live on the publish instance.

Testing Replication via Command Line

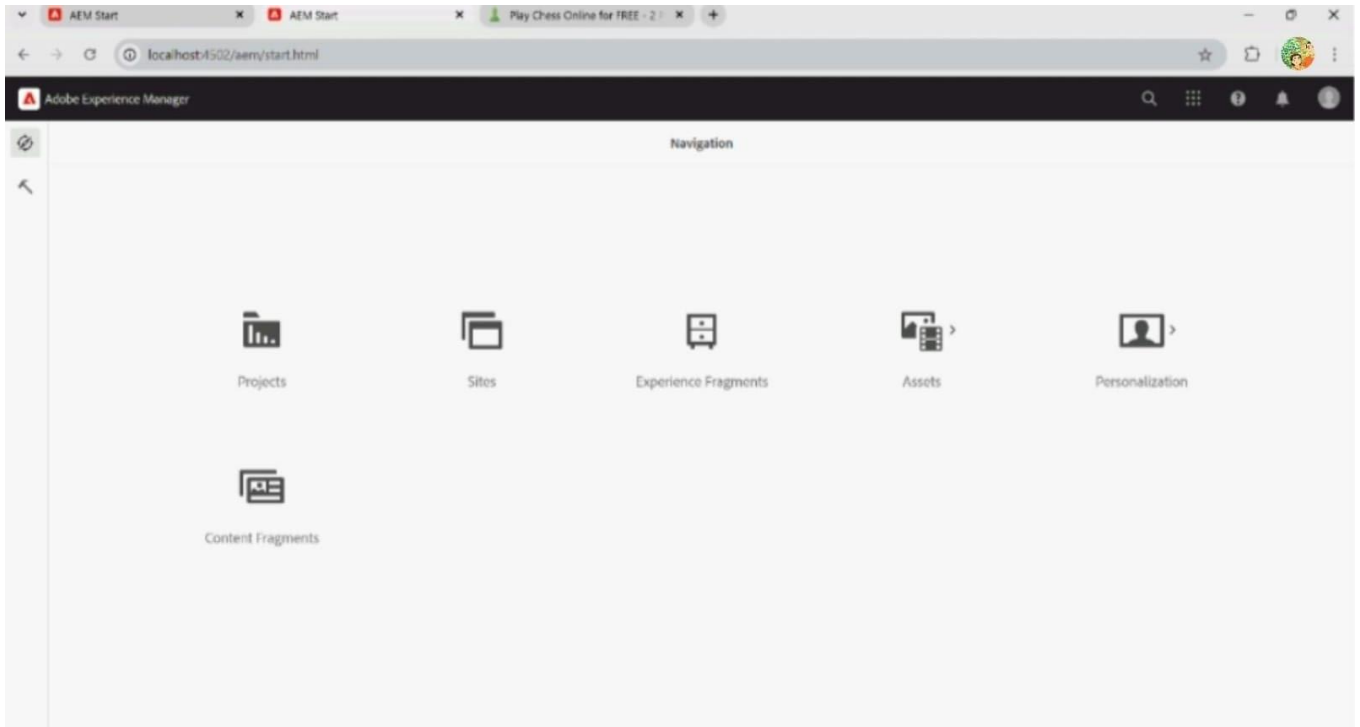
To manually trigger replication using **cURL**, run the following command:

sh

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```
curl -u admin:admin -X POST "http://localhost:4502/bin/replicate.json" -d  
"path=/content/my-page&type=activate"
```

This command pushes the specified page (/content/my-page) from the **author** to the **publish** instance, ensuring it's available for public access.



8. Create a Folder and Upload Images in DAM

Steps:

1. Navigate to AEM > Assets > Files.
2. Create a new folder at the path: /content/dam/myTraining/us/en-us.
3. Upload two images inside this folder.
4. Open a page in AEM Sites.
5. Drag and drop the Image Component onto the page.

Select the uploaded images from DAM and author them into the component

myTraining



Epic Journey

Don't stop half way, go for the top!

Epic Journey

Don't stop half way, go for the top!

First Name: Rose
Last Name: Ayyal

Drag components here

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