AEM – DAM

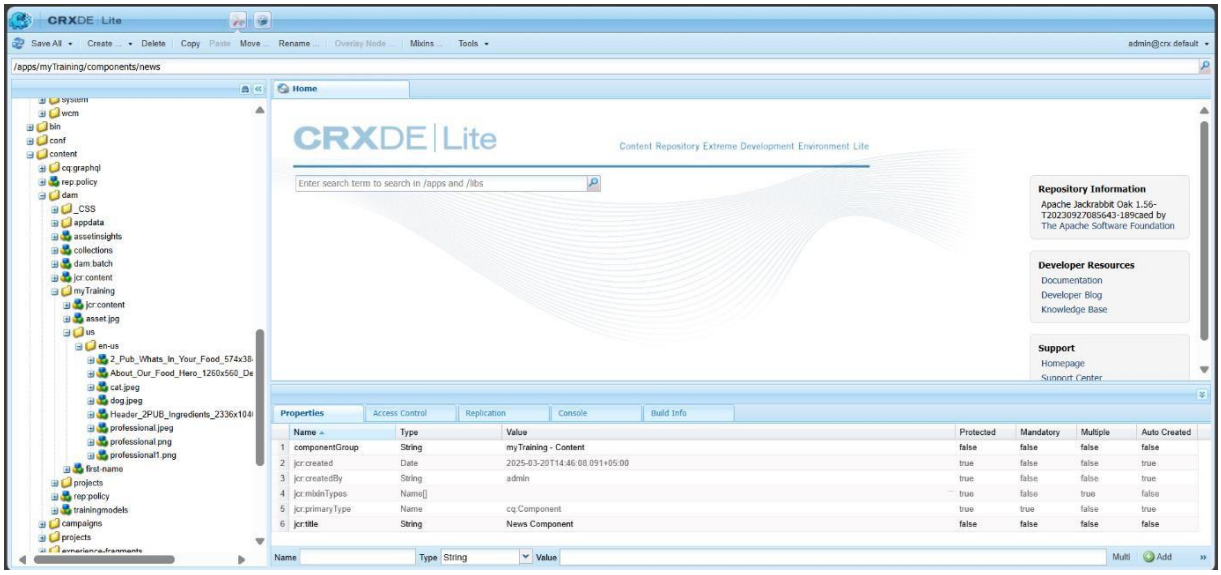
1. What is DAM and Why Do We Use It?

DAM (Digital Asset Management) in AEM is used to store, manage, and deliver digital assets like images, videos, documents, and other media files.

Why We Use It:

- Centralized Storage: Keeps all assets in one place.
- Versioning: Tracks changes made to assets.
- Metadata Management: Helps in categorizing assets.
- Workflow Integration: Supports asset approval workflows.
- Optimized Delivery: Uses renditions to serve assets in different sizes and formats.

Screenshot

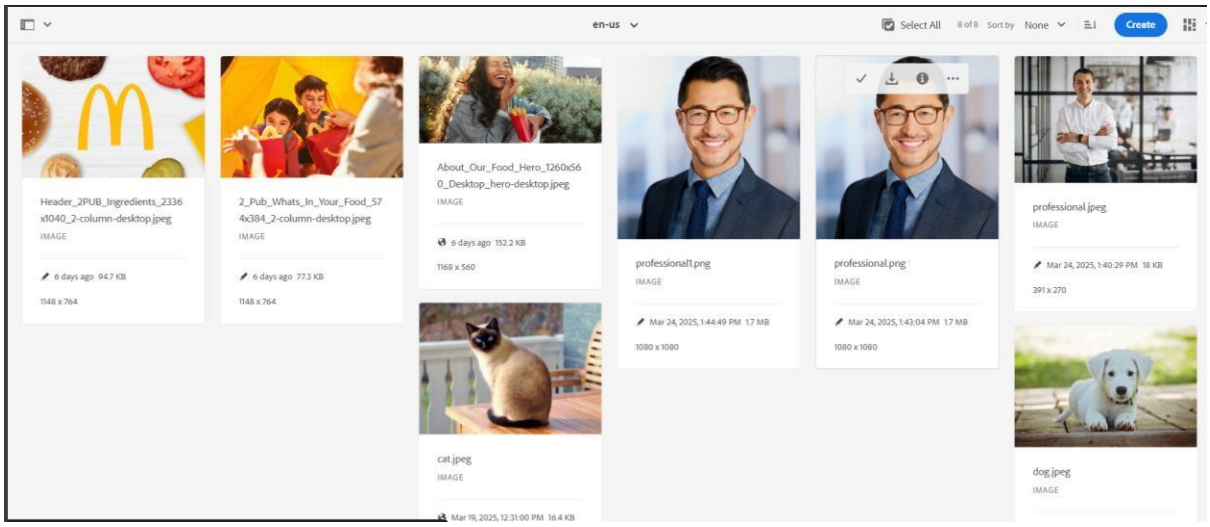


2. Create a Folder and Upload Images

Steps to Create a Folder and Upload Images:

1. Go to AEM and log in to the author instance at http://localhost:4502.
2. Click on Navigation → Assets → Files.
3. Click Create → Folder, name it myTraining, and create subfolders us/en-us inside it.
4. Navigate to /content/dam/myTraining/us/en-us and click Upload to add two images.
5. Select the uploaded images and click Quick Publish if needed.

Screenshot



3. What is Renditions?

Renditions are automatically generated versions of an image in different sizes and resolutions when an asset is uploaded to DAM.

Steps to Check Renditions:

- Open Assets → Files in AEM.
- Navigate to /content/dam/myTraining/us/en-us.
- Click on an uploaded image and go to the Renditions tab.
- You will see different renditions such as:
- Original (Full-size image)
- Web (Optimized for web usage)
- Thumbnail (Used in list views)

Screenshot

4. Add Two Fields (FirstName & LastName) in HelloWorld Component

Steps to Modify the HelloWorld Dialog:

1. Open http://localhost:4502/crx/de (CRXDE Lite).
2. Navigate to /apps/myTraining/components/helloworld/dialog.
3. Add the following fields inside cq:dialog:

Html code

<firstname

jcr:primaryType="nt:unstructured"

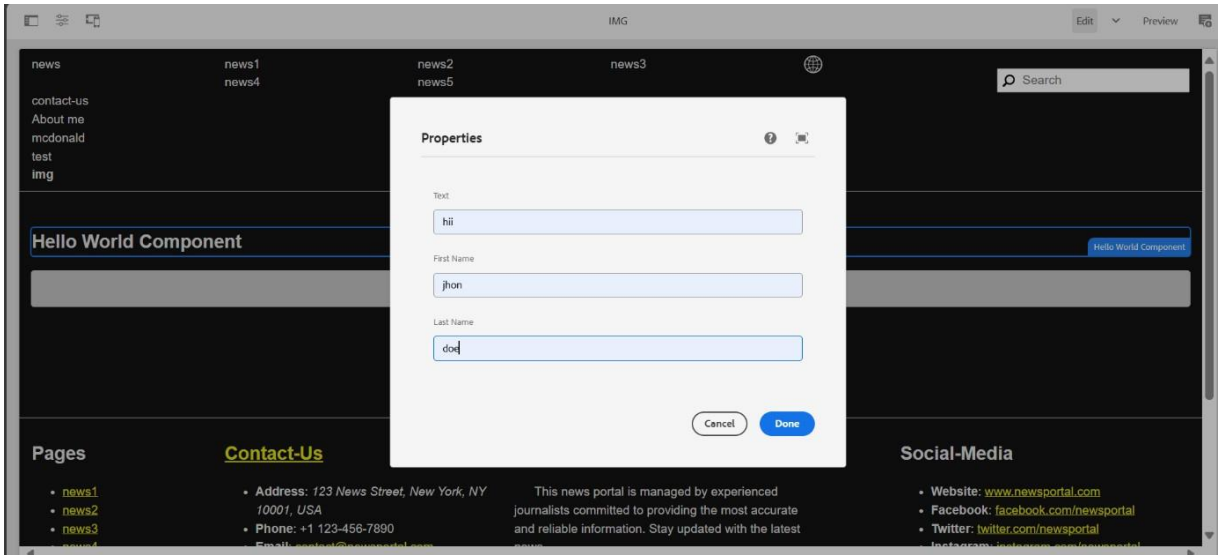
sling:resourceType="granite/ui/components/coral/foundation/form/textfield"

fieldLabel="First Name"

```
    name="./firstName"/>

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

4. Save and rebuild the project.

Screenshot



5. Use @ValueMapValue in HelloWorldModel

Steps to Modify HelloWorldModel:

1. Navigate to com.myTraining.core.models.HelloWorldModel.
2. Update the model:

Java Code

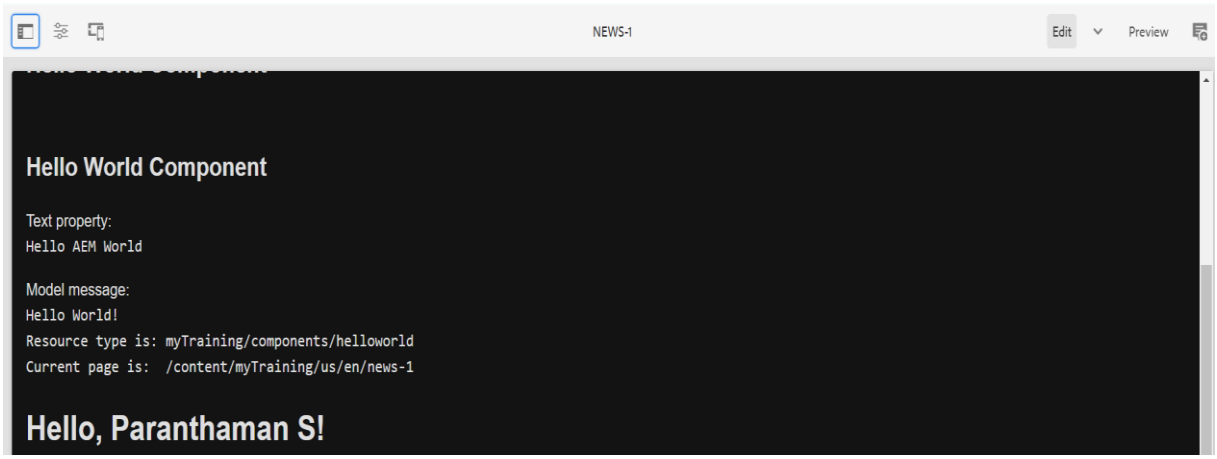
```
package com.myTraining.core.models;
import com.adobe.cq.sightly.WCMUsePojo;
import org.apache.sling.api.resource.Resource;
import org.apache.sling.models.annotations.Default;
import org.apache.sling.models.annotations.Model;
import
org.apache.sling.models.annotations.injectorspecific.ValueMapValue;
@Model(adaptables = Resource.class)
public class HelloWorldModel {
   @ValueMapValue
   @Default(values = "Default First Name")
   private String firstName;

   @ValueMapValue
   @Default(values = "Default Last Name")
   private String lastName;
  public String getFirstName() {
      return firstName;
   }
   public String getLastName() {
      return lastName;
   }
}
```

3. Modify helloWorld.html:

Html code

```
<div>
  <h2>Hello,${properties.firstName}${properties.lastName}</h2>
</div>
```

Screenshot



6. Why Do We Use Package Manager?

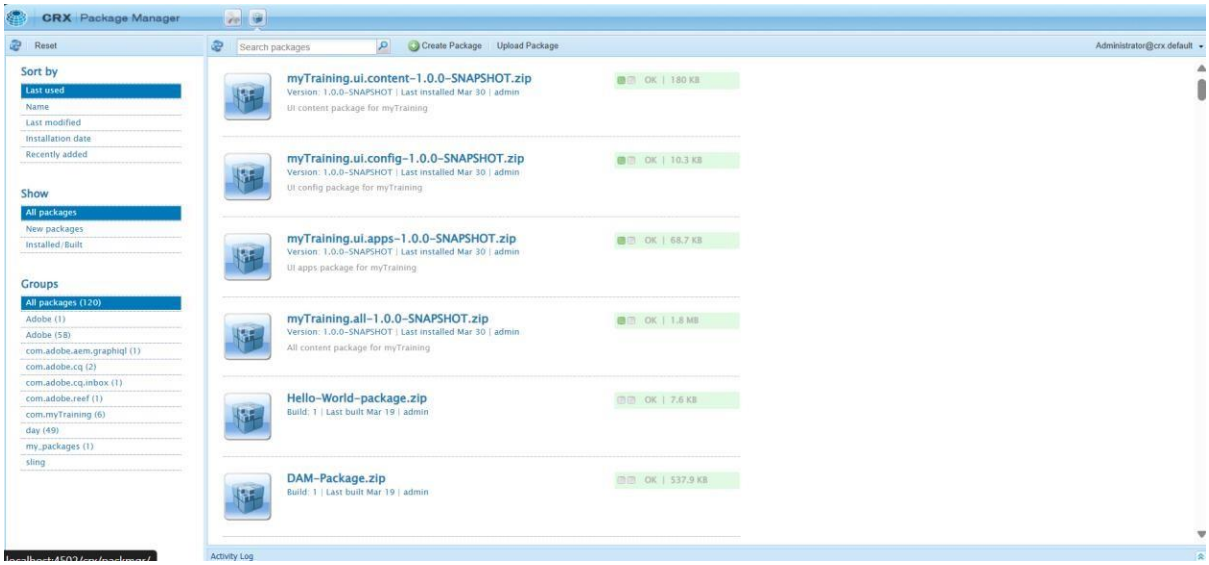
AEM Package Manager is used to:

- Export and import components, templates, and assets.
- Move content between AEM environments (Author → Publish).
- Take a backup of AEM content.

Steps to Create Packages for DAM and HelloWorld Component:

1. Open http://localhost:4502/crx/packmgr/index.jsp.
2. Click Create Package, enter name DAM-Images, and click OK.
3. Add Filters → Add /content/dam/myTraining/us/en-us.
4. Click Build and Download.
5. Create another package HelloWorld-Component.
6. Add filter /apps/myTraining/components/helloworld.
7. Click Build and Download.

Screenshot



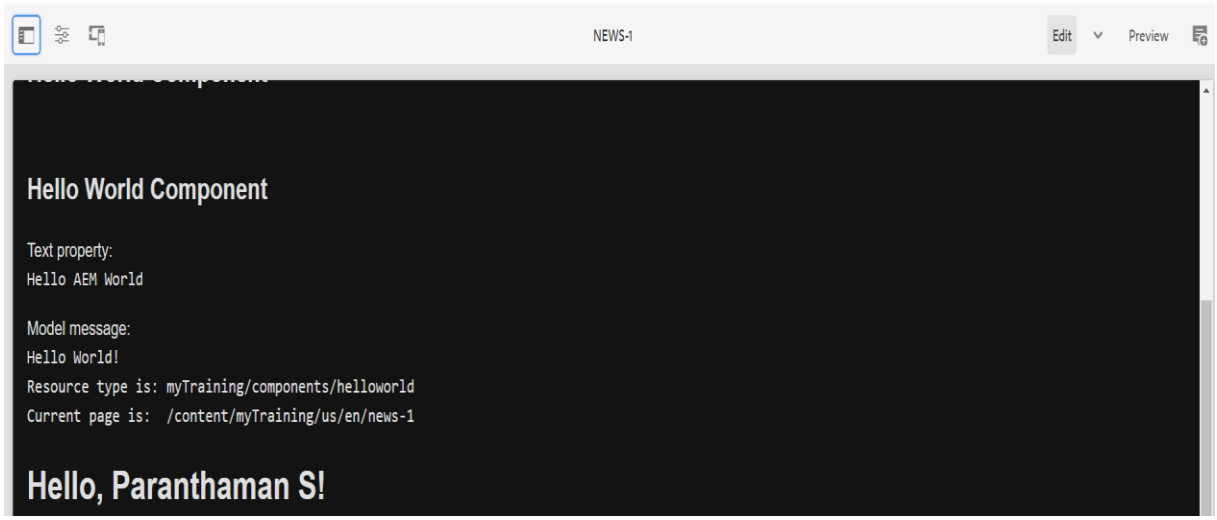
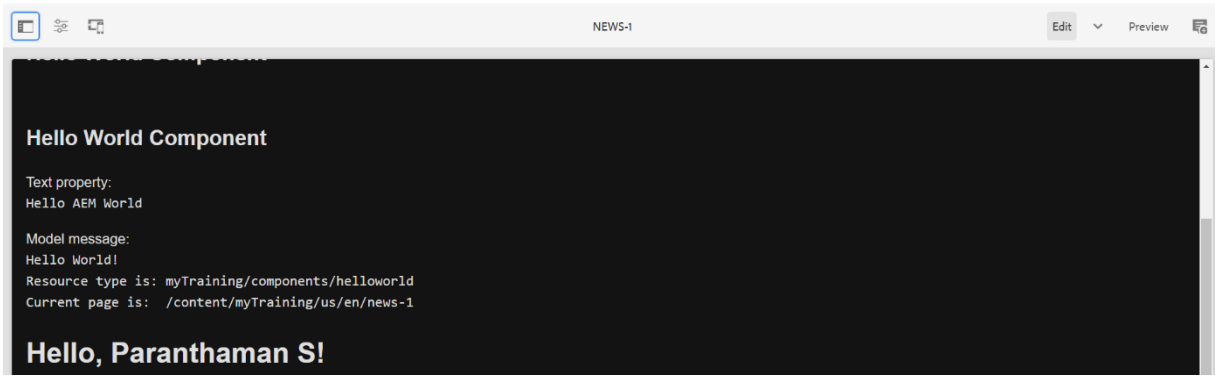
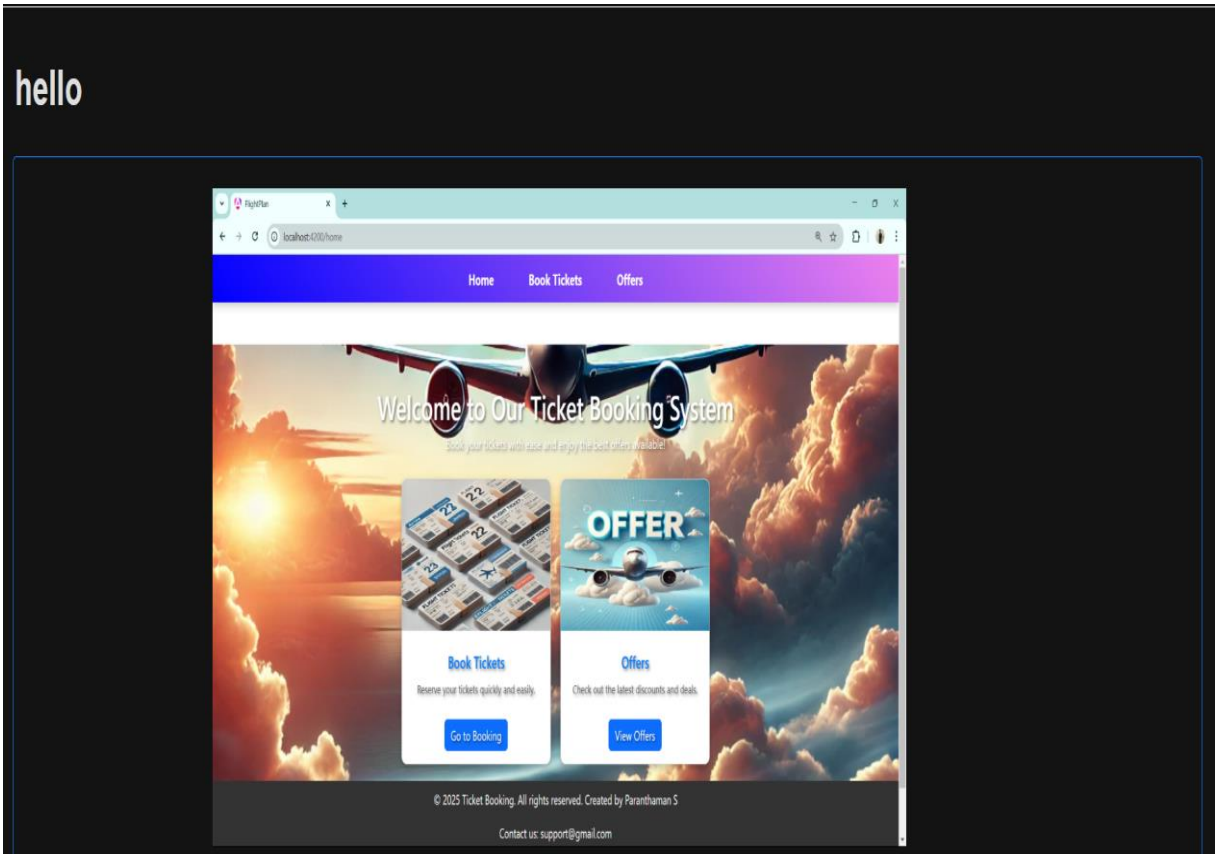
7. Configure Replication Agent and Publish Page

Steps to Configure Replication Agent:

1. Open http://localhost:4502/etc/replication/agents.author.html.
2. Click Default Agent (Publish).
3. Under Settings:
    - Enable it by checking the Enabled option.
    - Set Transport URI to http://localhost:4503/bin/receive.
    - Click Test Connection and ensure it is successful.

Steps to Publish Page from Author to Publish:

1. Open http://localhost:4502/sites.html.
2. Navigate to the page where you added the image component.
3. Click Publish → Publish Page.
4. Open http://localhost:4503/sites.html (AEM Publish instance).
5. Verify that the page is available in the Publish environment.



Other Screenshot