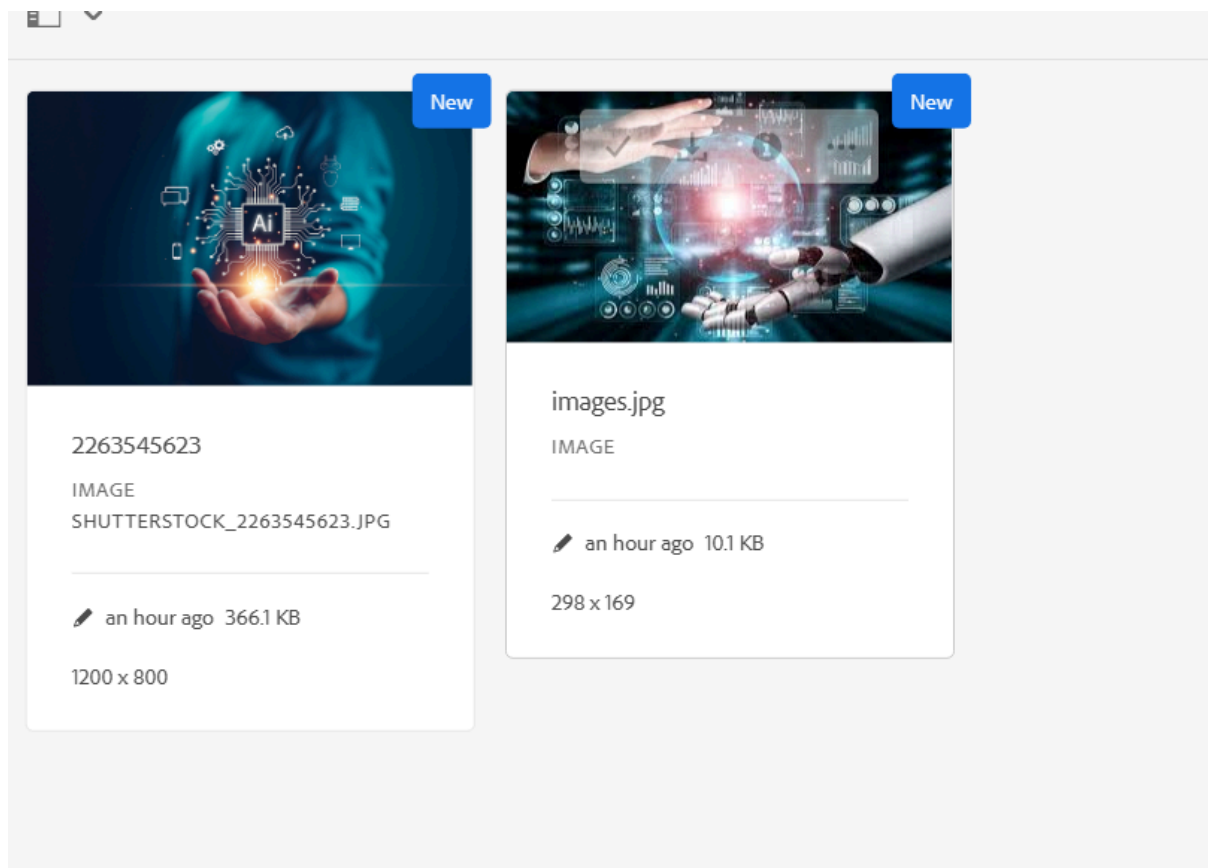# 1. What is DAM and Why Do We Use It?

DAM (Digital Asset Management) is a system in AEM used to store, manage, and distribute digital assets like images, videos, PDFs, and documents.

- ◆ **Why use DAM?**

    - **Centralized Storage:** Stores all digital assets in one place.

    - **Metadata Management:** Helps categorize and tag assets.

    - **Renditions:** Generates different sizes/formats of images for optimization.

    - **Version Control:** Maintains previous versions of assets.

    - **Access Control:** Defines who can view/edit assets.

2.

3. What is Renditions?

Renditions are automatically generated variations of an image in different resolutions, sizes, or formats when an image is uploaded to AEM DAM.

- ◆ **Why use renditions?**

  - Optimized performance by serving appropriate image sizes.

  - Reduces the need for manual resizing.

  - Supports different devices and layouts.

To check **renditions** in AEM:

1. Navigate to **DAM: `/content/dam/myTraining/us/en-us`**.

2. Select an uploaded image.

3. Click on **"Renditions"** in the **Properties** panel.

All Renditions ⌄

ORIGINAL
366.1 KB   1200x800   jpg

Static

WEB 1280X1280
102.5 KB   1280x1280   jpeg

THUMBNAIL 140X100
24.1 KB   140x100   png

THUMBNAIL 319X319
116.5 KB   319x319   png

THUMBNAIL 48X48
3.7 KB   48x48   png

---

http://localhost:4502/editor.html/content/myTraining/us/en/first-page.html

All Bookmarks

FIRST PAGE   Edit ⌄   Preview

First Page

84°F Partly cloudy   Search   ENG IN   11:25 PM 02-04-2025

/apps/myTraining/components/helloworld/helloworld.html

Home   helloworld.html

```
1  <div>
2      <p>First Name: ${properties.firstName}</p>
3      <p>Last Name: ${properties.lastName}</p>
4  </div>
5
```

- container
- contentfragment
- contentfragmentlist
- download
- embed
- experiencefragment
- form
- helloworld
  - cq:dialog
    - content
      - items
        - column
          - items
            - text
            - firstnam
            - lastnam
  - helloworld.html
  - jcr:content

First Name: Varshni

Last Name: RR

                                      Hello World Component

Drag components here

6. Why Are We Using Package Manager and JAR?

AEM Package Manager is used to package, export, and import AEM content like components, templates, assets, and configurations.

- ◆ **Why use it?**

  - ● **Content Migration:** Move content between AEM instances.

  - ● **Backup & Restore:** Create backups before making changes.

  - ● **Deployment:** Deploy content from development to production.

  - ● **Versioning:** Maintain different versions of content.

JAR files are used to bundle and deploy custom code (Java classes, OSGi services, Sling Models) in AEM.

Replication Agent Configuration & Publishing the Page

Replication Agent is used to **publish** content from the **author (4502)** instance to the **publish (4503)** instance.

- ◆ **Steps to Configure Replication Agent:**

  1. Go to **AEM Author** (`http://localhost:4502`).

  2. Navigate to **Tools → Deployment → Replication**.

  3. Select **"Agents on Author"** and choose **"Default Agent (publish)"**.

  4. Click **Edit**, set the **publish URL** to `http://localhost:4503`, and enable the agent.

  5. Test the connection and activate the agent.

- ◆ **Publishing the Page:**

  1. Open the page in AEM Author.

  2. Click **"Publish Page"**.

  3. Check the page in **AEM Publish (`http://localhost:4503`)**.