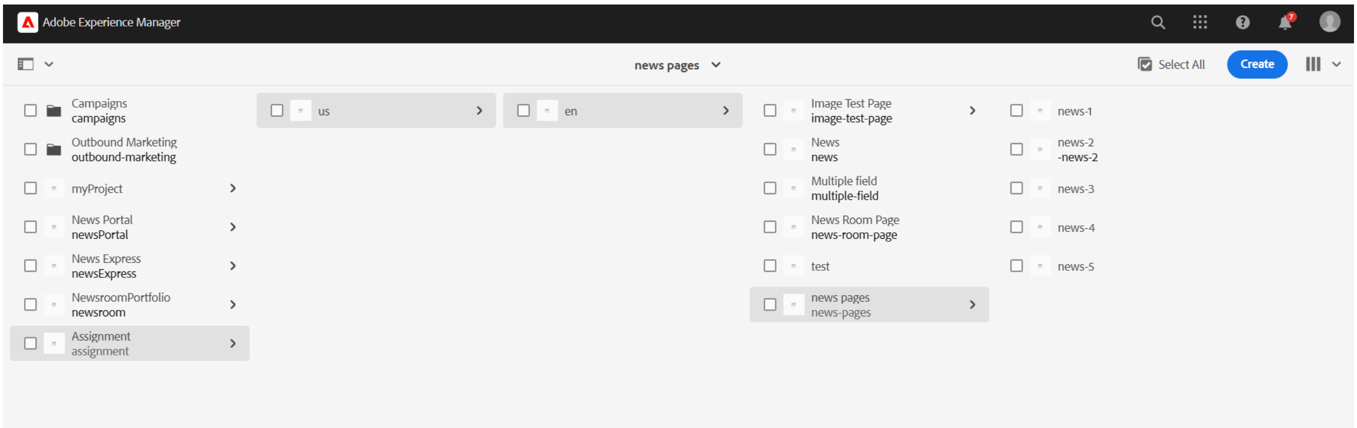
1.Create 5 news article pages under /content/us/en/news



Adobe Experience Manager

news pages

Select All

Create

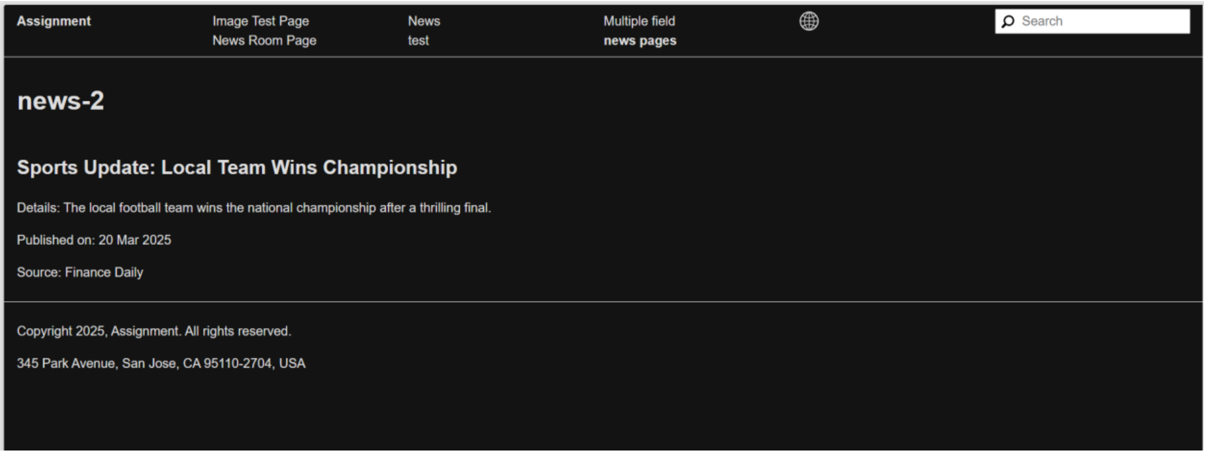
□ Campaigns campaigns
□ Outbound Marketing outbound-marketing
□ myProject
□ News Portal newsPortal
□ News Express newsExpress
□ NewsroomPortfolio newsroom
□ Assignment assignment

□ us

□ en

□ Image Test Page image-test-page
□ News news
□ Multiple field multiple-field
□ News Room Page news-room-page
□ test
□ news pages news-pages

□ news-1
□ news-2 -news-2
□ news-3
□ news-4
□ news-5



Assignment   Image Test Page   News   Multiple field
News Room Page   test   news pages

Search

news-2

Sports Update: Local Team Wins Championship

Details: The local football team wins the national championship after a thrilling final.

Published on: 20 Mar 2025

Source: Finance Daily

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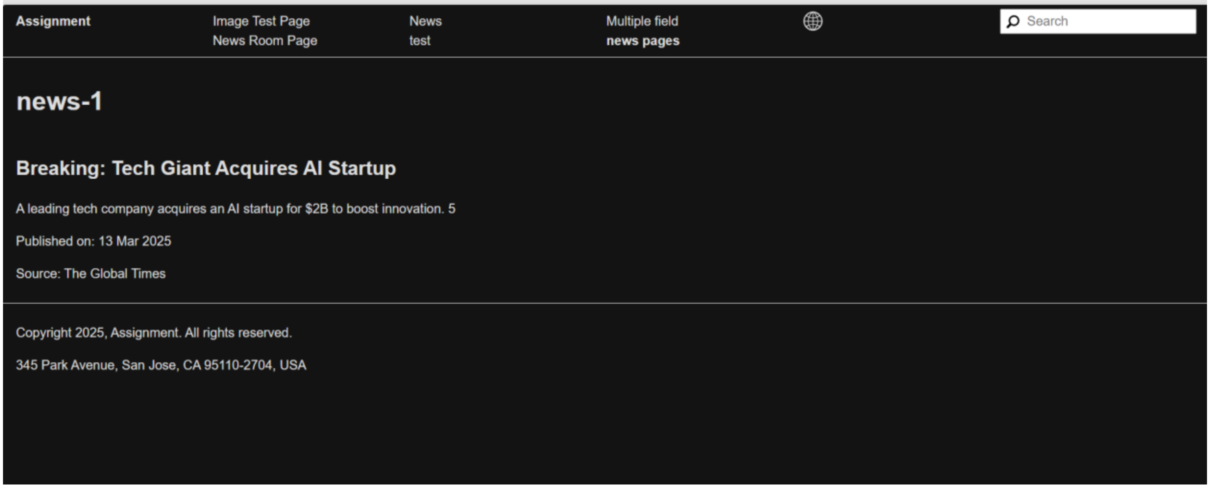
345 Park Avenue, San Jose, CA 95110-2704, USA



Assignment   Image Test Page   News   Multiple field
News Room Page   test   news pages

Search

news-1

Breaking: Tech Giant Acquires AI Startup

A leading tech company acquires an AI startup for $2B to boost innovation. 5

Published on: 13 Mar 2025

Source: The Global Times

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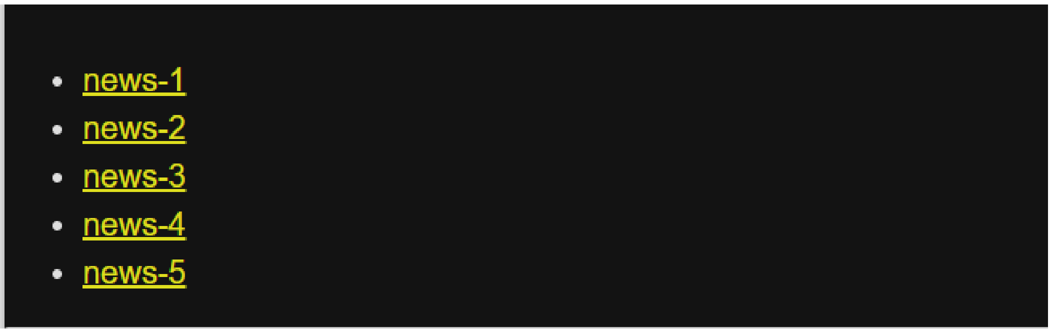
345 Park Avenue, San Jose, CA 95110-2704, USA

2. Create Header Experience fragment for header

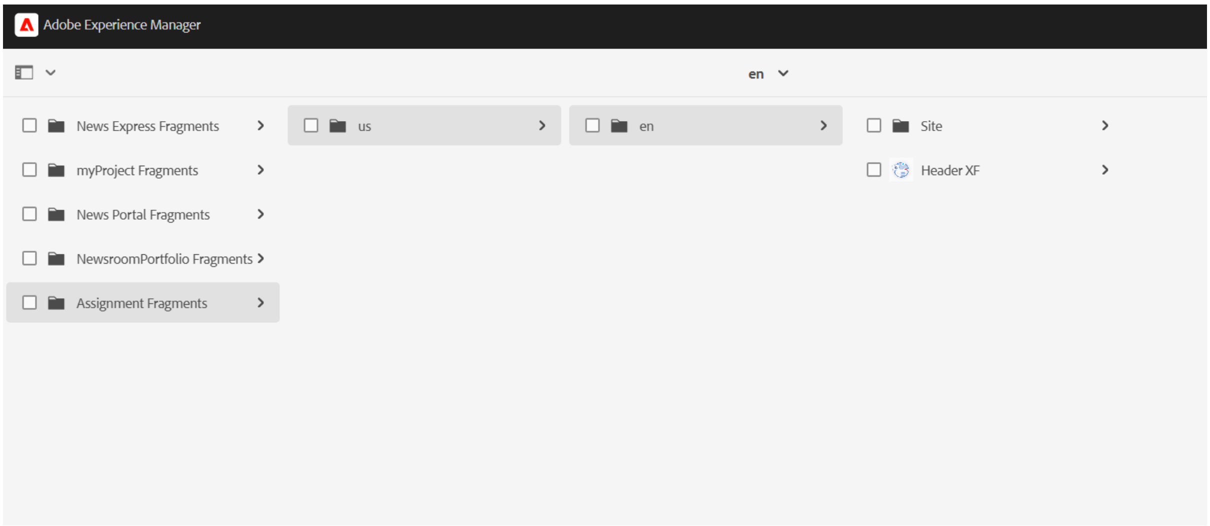
This will include:

1. **News Menu** – Links to the 5 news article pages you created.
2. **Contact Us Page** – With office address, email, or mobile number.

3. **About Me Page** – With journalist details using Teaser, Image, Text, and Title components.



- news-1
- news-2
- news-3
- news-4
- news-5



3. Create footer XF and it could have 4 sections

Create Footer Experience Fragment (XF)

Overview

We will create a **Footer XF** with 4 sections:

1. **News Menu Section** → Uses **List Component** to show 4 news articles.
2. **About Me Section** → Uses **Text Component** for journalist details.
3. **Contact Us Section** → Uses **Text Component** for contact details.
4. **Social Media Section** → Uses **List Component** for social media links.

Implementation Steps

Step 3.1: Create the Footer XF

1. **Go to**:
    - AEM **Navigation Panel** → **Experience Fragments**.
2. **Click**: **Create → Experience Fragment**.
3. **Enter** the **Title**: "Footer XF"
4. **Select a Template**:
    - Choose a **Footer Template** or a **Blank Template**.
5. **Click Create → Open**.

Step 3.2: Add Sections to Footer XF

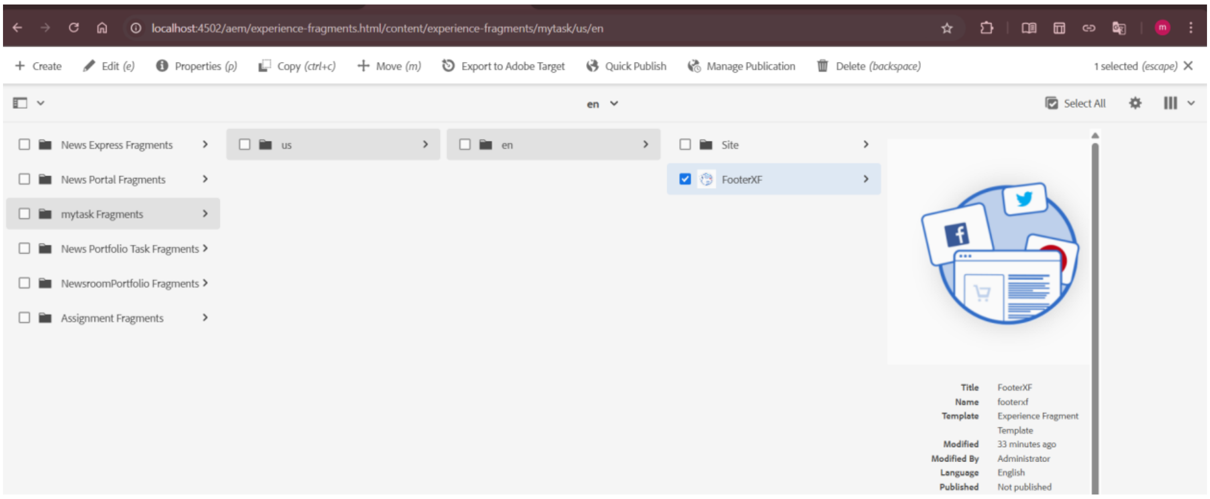
1. **News Menu Section**:
    - **Add a List Component**.
    - Configure it to display **4 news articles** from /content/us/en/news.
2. **About Me Section**:
    - **Add a Text Component**.
    - Enter a short bio about the journalist.
3. **Contact Us Section**:
    - **Add a Text Component**.
    - Enter details like:

Office Address: 123 News Street, City

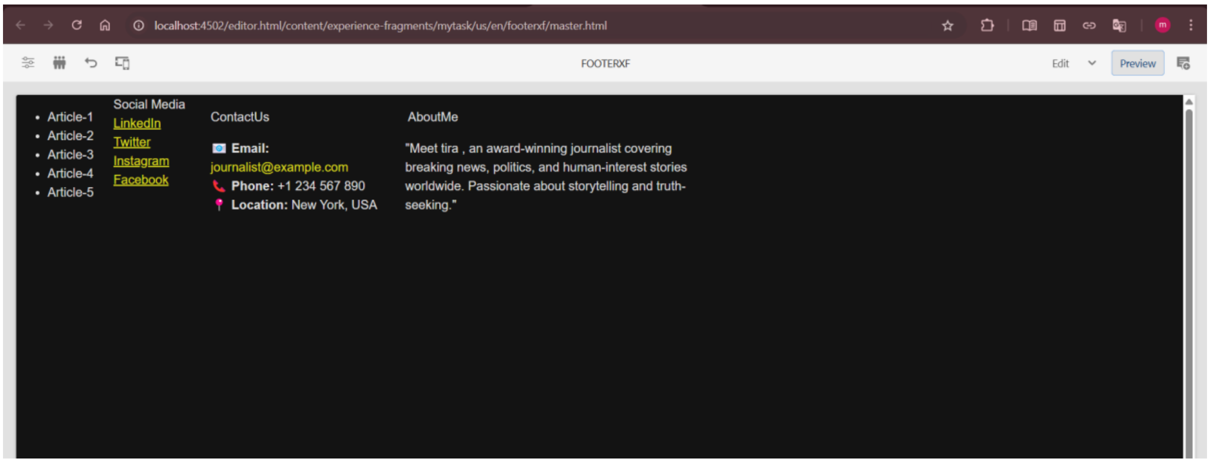
Email: journalist@example.com

Phone: +1 234 567 890

4. **Social Media Section**:
    - **Add a List Component**.
    - Configure it with links to **social media accounts** (e.g., LinkedIn, Twitter)



Title	FooterXF
Name	footerxf
Template	Experience Fragment Template
Modified	33 minutes ago
Modified By	Administrator
Language	English
Published	Not published


localhost:4502/editor.html/content/experience-fragments/mytask/us/en/footerxf/master.html
FOOTERXF
Edit
Preview

- Article-1
- Article-2
- Article-3
- Article-4
- Article-5

Social Media
LinkedIn
Twitter
Instagram
Facebook

ContactUs

Email: journalist@example.com
Phone: +1 234 567 890
Location: New York, USA

AboutMe

"Meet tira , an award-winning journalist covering breaking news, politics, and human-interest stories worldwide. Passionate about storytelling and truth-seeking."

4. Create a custom service to print hello world and call this service from news component sling model and print this value in logs as well.

Create a Custom Service to Print "Hello World" in Logs

Overview

We will create an **OSGi Service** in AEM that:

1. Returns the string "Hello World".
2. Calls this service from the **News Component's Sling Model**.
3. Prints the "Hello World" message in the AEM logs.

Implementation Steps

Step 4.1: Create the OSGi Service

1. **Navigate to your AEM project** in IntelliJ IDEA.

2. **Go to the core module** → assignment/core/src/main/java/com/assignment/services.
3. **Create an Interface** HelloWorldService.java:

File Path: assignment/core/src/main/java/com/assignment/services/HelloWorldService.java

```
package com.assignment.services;

public interface HelloWorldService {

   String getMessage();

}
```

Step 4.2: Implement the OSGi Service

File Path: assignment/core/src/main/java/com/assignment/services/impl/HelloWorldServiceImpl.java

```
package com.assignment.services.impl;


import com.assignment.services.HelloWorldService;

import org.osgi.service.component.annotations.Component;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;


@Component(service = HelloWorldService.class, immediate = true)

public class HelloWorldServiceImpl implements HelloWorldService {


   private static final Logger LOG = LoggerFactory.getLogger(HelloWorldServiceImpl.class);


   @Override

   public String getMessage() {

      String message = "Hello World";
```

```
        LOG.info("Custom Service Output: {}", message);

        return message;

    }

}
```

Explanation:

@Component → Registers this as an OSGi service.

implements HelloWorldService → Implements the interface.

LOG.info → Prints "Hello World" in logs.

getMessage() → Returns "Hello World".

Step 4.3: Call the Service from the News Component Sling Model

1. **Go to**: assignment/core/src/main/java/com/assignment/models/NewsModel.java

2. **Modify the NewsModel to Use the Service**:

```
package com.assignment.models;


import com.assignment.services.HelloWorldService;

import com.adobe.cq.sightly.WCMUsePojo;

import org.apache.sling.models.annotations.DefaultInjectionStrategy;

import org.apache.sling.models.annotations.Model;

import org.apache.sling.models.annotations.injectorspecific.Self;

import org.apache.sling.models.annotations.injectorspecific.OSGiService;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;


import javax.inject.Inject;
```

```
@Model(adaptables = WCMUsePojo.class, defaultInjectionStrategy =
DefaultInjectionStrategy.OPTIONAL)
public class NewsModel {

    private static final Logger LOG = LoggerFactory.getLogger(NewsModel.class);

    @OSGiService
    private HelloWorldService helloWorldService;

    public String getHelloMessage() {
        String message = helloWorldService.getMessage();
        LOG.info("NewsModel: Hello World Message = {}", message);
        return message;
    }
}
```

Explanation:

@OSGiService → Injects the HelloWorldService.

getHelloMessage() → Calls the service and logs the output.

Step 4.4: Deploy and Test

1. **Build & Deploy the Project**:

   ```
   mvn clean install -PautoInstallPackage
   ```

2. **Open AEM Logs**:
   - In **AEM Dev Console**, run:

     ```
     tail -f logs/error.log
     ```

   - Look for:

     ```
     Custom Service Output: Hello World
     NewsModel: Hello World Message = Hello World
     ```