

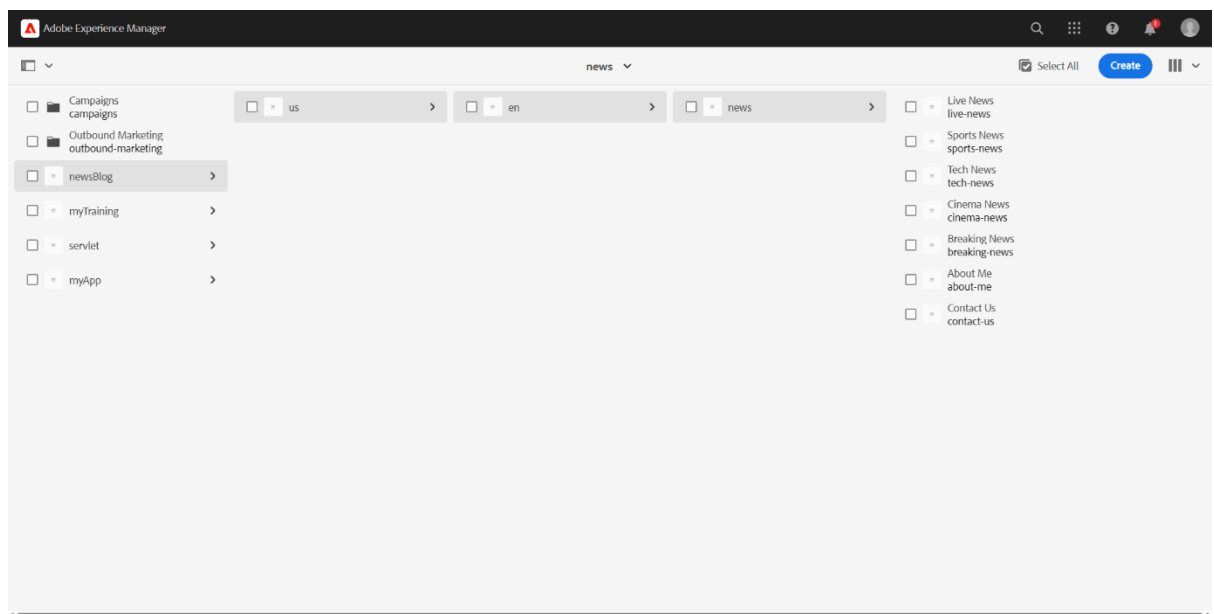
1. Create 5 News Article Pages

Steps:

1. Navigate to **Sites > AEM > /content/us/en/news/**.
2. Create 5 unique news article pages.
3. Use the **News Component** to provide:
 - **Title**
 - **News Detail**
 - **Published Date**
4. Publish the pages.

Screenshot:

- News pages list in AEM.



- All five news pages with the News Component filled.

Live News

Earthquake Shakes Downtown Area, Casualties Reported

A powerful earthquake measuring 7.8 on the Richter scale has struck the downtown area, causing widespread damage. Emergency teams are on the ground.

Published on: March 24, 2025

Drag components here

Sports News

Champion Team Wins World Cup Final

The match was a thrilling contest between Team A and Team B, with Team A emerging victorious in a nail-biting finish. This marks their third World Cup win in history.

Published on: March 24, 2025

Drag components here

Tech News

New AI Breakthrough Could Revolutionize Healthcare

Researchers have unveiled a new AI algorithm that promises to revolutionize the way medical diagnoses are made, potentially saving millions of lives annually.

Published on: March 24, 2025

Drag components here

Cinema News

Oscar Winner Announces New Movie Project

Academy Award-winning director John Doe has revealed details about his upcoming film, set to release next year. The movie will explore themes of love and loss in a dystopian future.

Published on: March 24, 2025

Drag components here

Breaking News

Massive Fire Breaks Out in City Center, Emergency Crews Responding

A large fire has erupted in the heart of the city center, forcing several nearby buildings to evacuate. Firefighters are on-site, and emergency services are working to control the blaze. Authorities are urging the public to avoid the area.

Published on: March 24, 2025

Drag components here

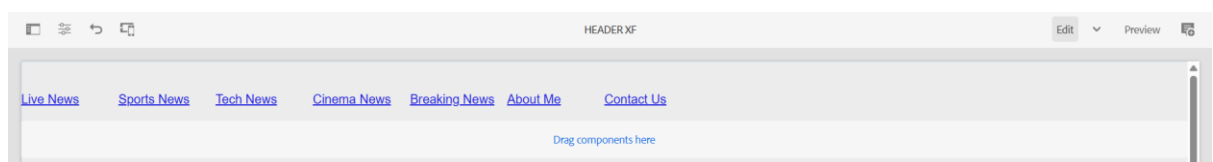
2. Create Header Experience Fragment (XF)

Steps:

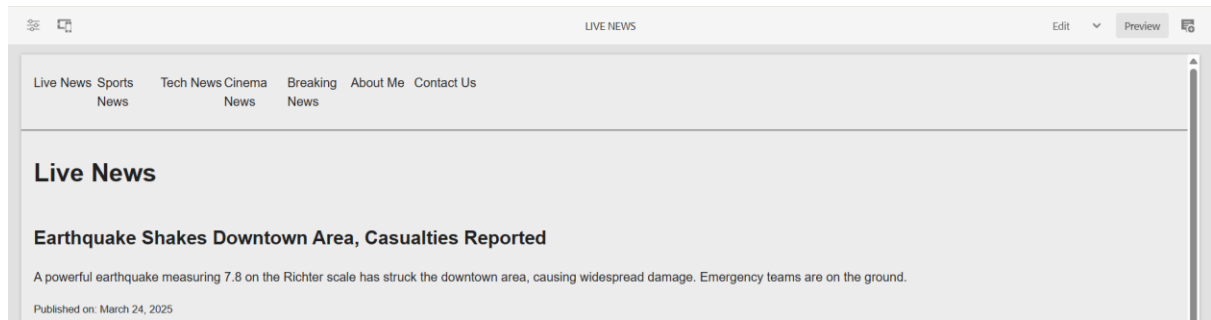
1. Navigate to **Experience Fragments > Create XF**.
2. Name it **Header XF**.
3. Add a **Menu Component** linking to:
 - **News** (points to news articles)
 - **About Me** (Teaser/Image/Text for journalist details)
 - **Contact Us** (Text for contact details like mobile, office address, email)
4. Publish and include this XF in the site header.

Screenshot:

- Header XF structure with menu.



- Preview of the Header XF on a webpage.



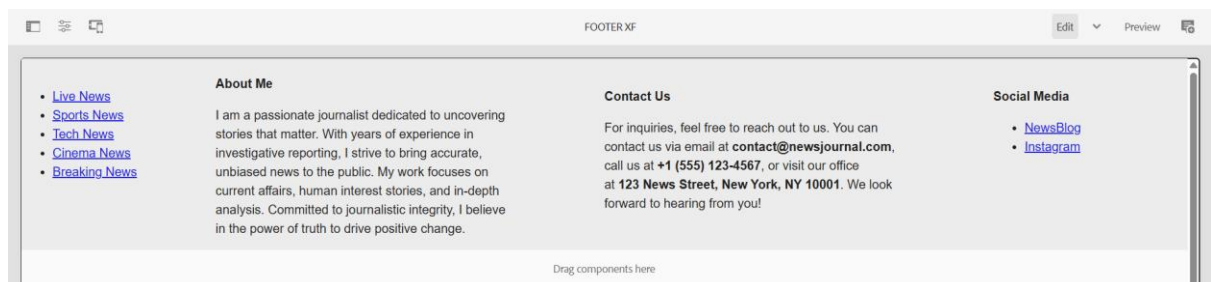
3. Create Footer Experience Fragment (XF)

Steps:

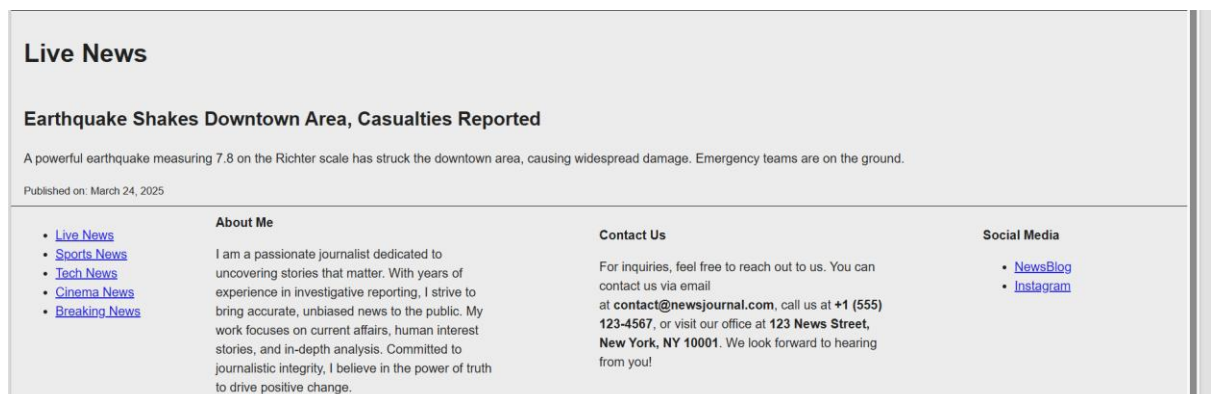
1. Navigate to **Experience Fragments > Create XF**.
2. Name it **Footer XF**.
3. Add 4 sections:
 - **News Menu:** List component with 4 news articles.
 - **About Me:** Text component with content.
 - **Contact Us:** Text component with office/mobile/email.
 - **Social Media:** List component with social media links.
4. Publish and include this XF in the site footer.

Screenshot:

- Footer XF structure with sections.



- Preview of the Footer XF on a webpage.



Steps:

1. Implement an OSGi service with a method returning "Hello World".
2. Inject the service into the **News Component Sling Model**.
3. Print the service output in logs.
4. Deploy and verify in AEM logs.

- Java code for the custom service.

```
package com.newsBlog.core.services;
```

```
public interface HelloWorldService {
    void logHelloMessage();
}
```

```
package com.newsBlog.core.services.impl;
```

```
import com.newsBlog.core.services.HelloWorldService;
```

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

```
import org.slf4j.Logger;
```

```
import org.slf4j.LoggerFactory;
```

```
@Component(service = HelloWorldService.class)
```

```
public class HelloWorldServiceImpl implements HelloWorldService {
```

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

@Override

```
public void logHelloMessage(){
    LOG.info("Hello World from OSGi Service!");
}
```

Screenshot:

- Log output showing "Hello World".

```

02.04.2025 00:03:10.305 "INFO" [[0:0:0:0:0:0:0:1]] GET /mnt/overlay/granite/us/content/shell/globalnav/cq/items/tabs/items/tools/content.040.html?overlay/cq/core/content/nav/tools/general HTTP/1.1] com.day.cq.wcm.core.impl.designer.SearchPathLimit Search path limiter configured with searchPathLimitFeatureToggleIn: true and searchPathThreshold: true.
02.04.2025 00:03:12.359 "INFO" [[0:0:0:0:0:0:0:1]] [743532931246] GET /sites.html/content HTTP/1.1] com.day.cq.wcm.core.impl.designer.SearchPathLimit Search path limiter configured with searchPathLimitFeatureToggleIn: true and searchPathThreshold: true.
02.04.2025 00:03:519 "INFO" [[0:0:0:0:0:0:0:1]] [74353233237] GET /mnt/overlay/granite/us/content/shell/header/actions/pulse.data.json HTTP/1.1] com.day.cq.wcm.core.impl.designer.SearchPathLimit Search path limiter configured with searchPathLimitFeatureToggleIn: true and searchPathThreshold: true.
02.04.2025 00:03:20.587 "WARN" [[0:0:0:0:0:0:0:1]] [743532400585] GET /conf/newslBlog/settings/wcm/templates/page-content/thumbnail.png.thumb.48.48.png HTTP/1.1] com.day.cq.wcm.core.impl.page.PageImpl page at /conf/newslBlog/settings/wcm/templates does not have a jcr:content childresource
02.04.2025 00:03:20.587 "INFO" [[0:0:0:0:0:0:0:1]] [743532400585] GET /conf/newslBlog/settings/wcm/templates/page-content/thumbnail.png.thumb.48.48.png HTTP/1.1] com.day.cq.wcm.core.impl.designer.SearchPathLimit Search path limiter configured with searchPathLimitFeatureToggleIn: true and searchPathThreshold: true.
02.04.2025 00:03:20.587 "WARN" [[0:0:0:0:0:0:0:1]] [743532400585] GET /conf/newslBlog/settings/wcm/templates/page-content/thumbnail.png.thumb.48.48.png HTTP/1.1] com.day.cq.wcm.core.impl.page.PageImpl page at /conf/newslBlog/settings/wcm does not have a jcr:content childresource
02.04.2025 00:04:45.396 "INFO" [slang-ocq-observation-18] com.adobe.cq.user.util.UserCreationListener USF Feature is disabled.
02.04.2025 00:04:45.396 "INFO" [slang-ocq-observation-18] com.adobe.cq.user.util.UserCreationListener USF Feature is disabled.
02.04.2025 00:04:45.495 "INFO" [[0:0:0:0:0:0:0:1]] [743532487402] GET /editor.html/content/newslBlog/us/en/news/live-news.html HTTP/1.1] com.day.cq.wcm.core.impl.designer.SearchPathLimit Search path limiter configured with searchPathLimitFeatureToggleIn: true and searchPathThreshold: true.
02.04.2025 00:04:47.495 "ERROR" [[0:0:0:0:0:0:0:1]] [743532487402] GET /editor.html/content/newslBlog/us/en/news/live-news.html HTTP/1.1] com.adobe.cq.msm.ui.servlet.ISourceRenderCondition path /content/newslBlog/us/en/news/live-news.html to check render condition is not valid
02.04.2025 00:04:47.973 "INFO" [[0:0:0:0:0:0:0:1]] [743532487908] GET /content/newslBlog/us/en/news/live-news.html HTTP/1.1] com.day.cq.wcm.core.impl.designer.SearchPathLimit Search path limiter configured with searchPathLimitFeatureToggleIn: true and searchPathThreshold: true.
02.04.2025 00:04:47.978 "INFO" [[0:0:0:0:0:0:0:1]] [743532487976] GET /mnt/overlay/granite/us/content/shell/header/actions/pulse.data.json HTTP/1.1] com.day.cq.wcm.core.impl.designer.SearchPathLimit Search path limiter configured with searchPathLimitFeatureToggleIn: true and searchPathThreshold: true.
02.04.2025 00:04:50.166 "INFO" [[0:0:0:0:0:0:0:1]] [743532487976] GET /content/newslBlog/us/en/news/live-news.html/content/editor/jcr:content/items/sidepanel.content.html/content/newslBlog/us/en/news/live-news.html HTTP/1.1] com.day.cq.wcm.core.impl.designer.SearchPathLimit Search path limiter configured with searchPathLimitFeatureToggleIn: true and searchPathThreshold: true.
02.04.2025 00:04:50.166 "INFO" [[0:0:0:0:0:0:0:1]] [743532487988] GET /content/newslBlog/us/en/news/live-news.html HTTP/1.1] com.newslBlog.core.models.NewsModel NewsModel [PostConstruct executed]
02.04.2025 00:04:50.166 "INFO" [[0:0:0:0:0:0:0:1]] [743532487988] GET /content/newslBlog/us/en/news/live-news.html HTTP/1.1] com.newslBlog.core.services.impl.HelloWorldServiceImpl Hello world from OS61 Service!
02.04.2025 00:04:50.166 "INFO" [slang-pageinfo-providers-processing-pool-2] com.day.cq.wcm.core.impl.designer.SearchPathLimit Search path limiter configured with searchPathLimitFeatureToggleIn: true and searchPathThreshold: true.
02.04.2025 00:04:50.771 "INFO" [[0:0:0:0:0:0:0:1]] [743532490754] GET /libs/wcm/core/content/components.17435004873.730 HTTP/1.1] com.day.cq.wcm.core.impl.components.ComponentServlet provided components.
02.04.2025 00:05:09.008 "INFO" [slang-default-10-YellowWorldSchedulerJob] com.myTraining.core.schedulers.YellowWorldScheduler [Scheduler] Yellow World!
02.04.2025 00:05:09.008 "INFO" [slang-ocq-observation-21] com.adobe.cq.user.util.UserCreationListener USF Feature is disabled.
02.04.2025 00:05:48.463 "INFO" [[0:0:0:0:0:0:0:1]] [743532548459] GET /mnt/overlay/granite/us/content/shell/header/actions/pulse.data.json HTTP/1.1] com.day.cq.wcm.core.impl.designer.SearchPathLimit Search path limiter configured with searchPathLimitFeatureToggleIn: true and searchPathThreshold: true.
02.04.2025 00:06:49.993 "INFO" [slang-ocq-observation-8] com.adobe.cq.user.util.UserCreationListener USF Feature is disabled.
02.04.2025 00:06:49.997 "INFO" [slang-ocq-observation-9] GET /mnt/overlay/granite/us/content/shell/header/actions/pulse.data.json HTTP/1.1] com.day.cq.wcm.core.impl.designer.SearchPathLimit Search path limiter configured with searchPathLimitFeatureToggleIn: true and searchPathThreshold: true.
02.04.2025 00:06:54.799 "INFO" [[0:0:0:0:0:0:0:1]] [743532614794] GET /editor.html/content/newslBlog/us/en/news/sports-news.html HTTP/1.1] com.day.cq.wcm.core.impl.designer.SearchPathLimit Search path limiter configured with searchPathLimitFeatureToggleIn: true and searchPathThreshold: true.
02.04.2025 00:06:54.878 "ERROR" [[0:0:0:0:0:0:0:1]] [743532614794] GET /editor.html/content/newslBlog/us/en/news/sports-news.html HTTP/1.1] com.adobe.cq.msm.ui.servlet.ISourceRenderCondition path /content/newslBlog/us/en/news/sports-news.html to check render condition is not valid
02.04.2025 00:06:55.268 "INFO" [[0:0:0:0:0:0:0:1]] [743532615263] GET /content/newslBlog/us/en/news/sports-news.html HTTP/1.1] com.day.cq.wcm.core.impl.designer.SearchPathLimit Search path limiter configured with searchPathLimitFeatureToggleIn: true and searchPathThreshold: true.
02.04.2025 00:06:55.356 "INFO" [[0:0:0:0:0:0:0:1]] [743532615354] GET /mnt/overlay/granite/us/content/shell/header/actions/pulse.data.json HTTP/1.1] com.day.cq.wcm.core.impl.designer.SearchPathLimit Search path limiter configured with searchPathLimitFeatureToggleIn: true and searchPathThreshold: true.

```

5. Create Custom Configurations for 3rd Party API

Steps:

1. Create an OSGi configuration to accept a URL (e.g., `https://jsonplaceholder.typicode.com/posts`).
2. Implement a service to fetch and log JSON data.
3. Deploy and test by updating the configuration.
4. Verify the API response in logs.

Java Code:

- Implement a service to fetch and log JSON data.

[ApiService.java](#)

```
package com.newsBlog.core.services;

import org.apache.commons.io.IOUtils;

import org.apache.http.client.methods.CloseableHttpResponse;

import org.apache.http.client.methods.HttpGet;

import org.apache.http.impl.client.CloseableHttpClient;

import org.apache.http.impl.client.HttpClients;

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

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

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

import org.osgi.service.metatype.annotations.Designate;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

import java.io.InputStream;

import java.nio.charset.StandardCharsets;

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

@Designate(ocd = ApiConfig.class)

public class ApiService {

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

    private String apiUrl;

    @Activate

    @Modified

    protected void activate(ApiConfig config) {

        this.apiUrl = config.apiEndpoint();

        LOG.info("API URL Configured: {}", apiUrl);

        fetchApiData();

    }

    public void fetchApiData() {

        try (CloseableHttpClient httpClient = HttpClients.createDefault()) {

            HttpGet request = new HttpGet(apiUrl);

            try (CloseableHttpResponse response = httpClient.execute(request);
```

ApiConfig.java

```
public @interface ApiConfig {
```

```
String apiEndpoint() default "https://jsonplaceholder.typicode.com/posts";
```

- Log output showing fetched JSON data.

[illegible]