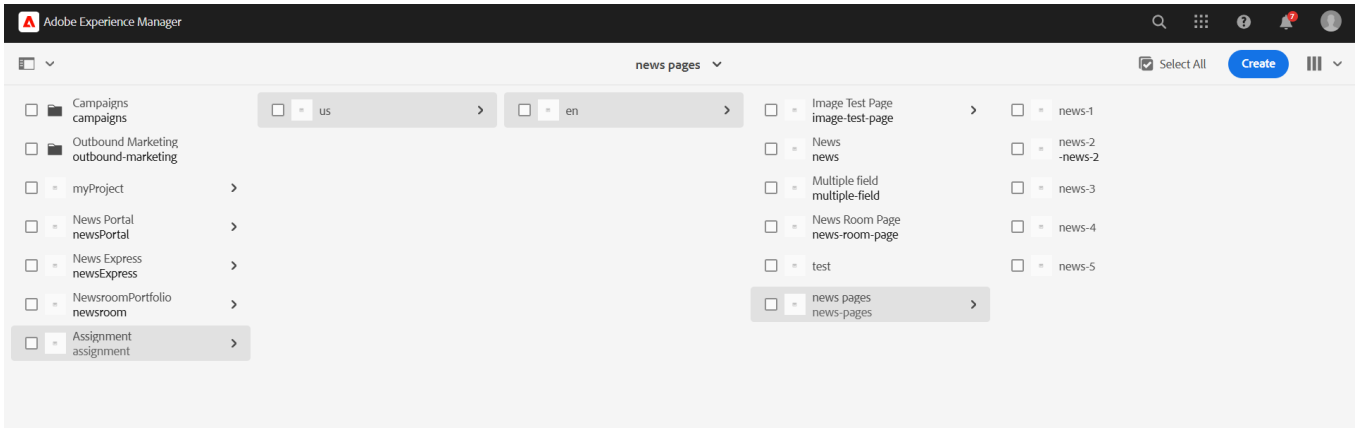
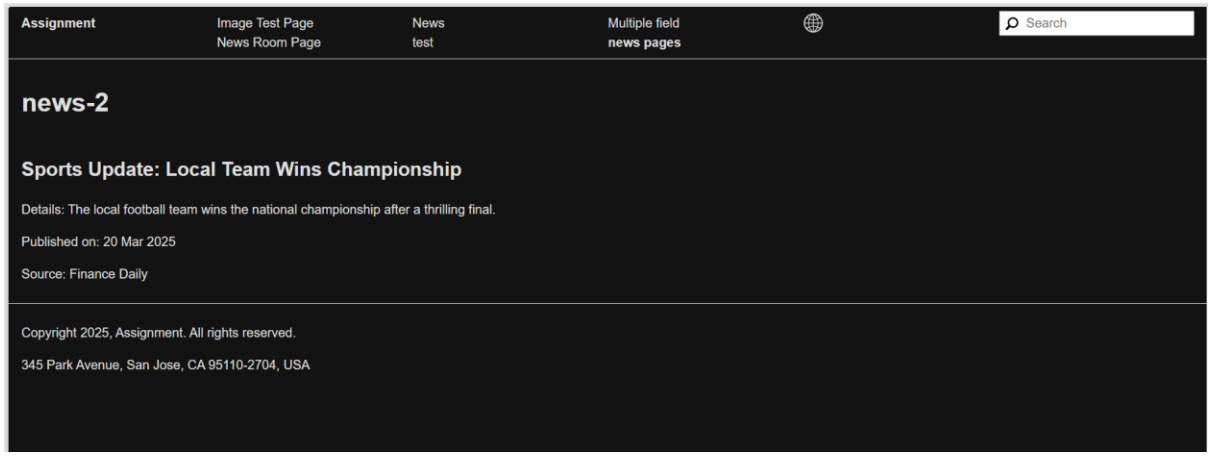
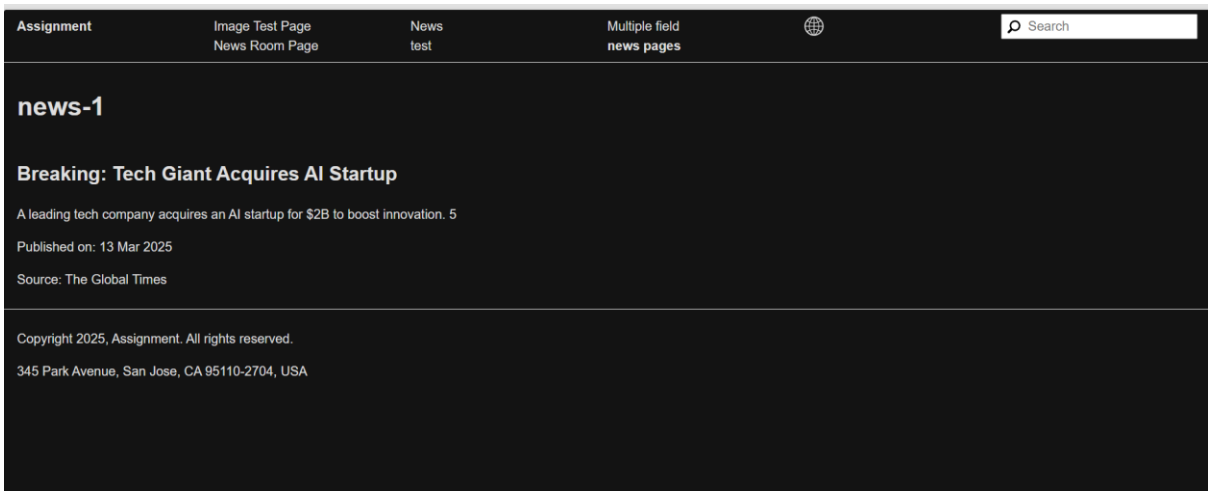
1.Create 5 news article pages under /content/us/en/news





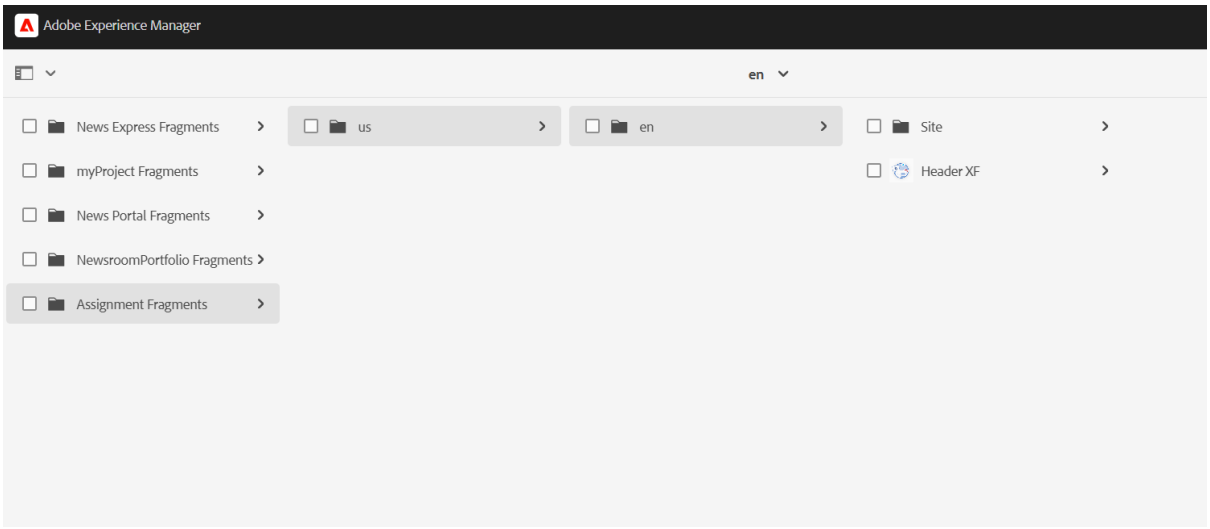


2. Create Header Experience fragment for header

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.



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)

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