<u>AEM News Article Pages & Custom Implementations</u>

1. Create 5 News Article Pages

Path: /content/us/en/news

• Create five unique news articles.

• Use the previously created News Component to provide:

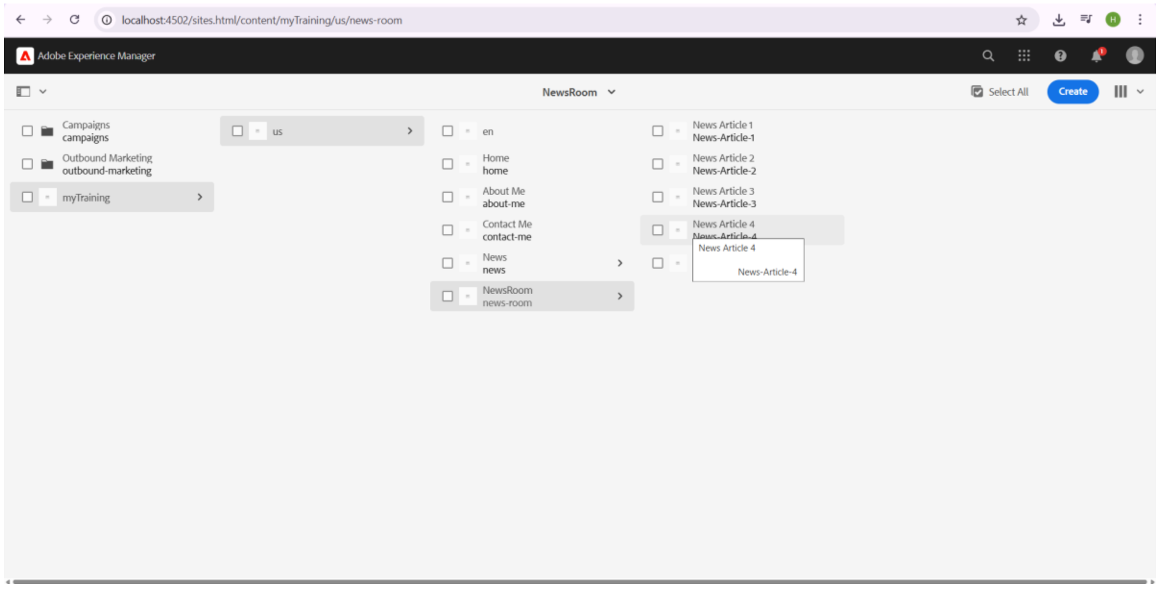
- Title
- News Detail
- Published Date

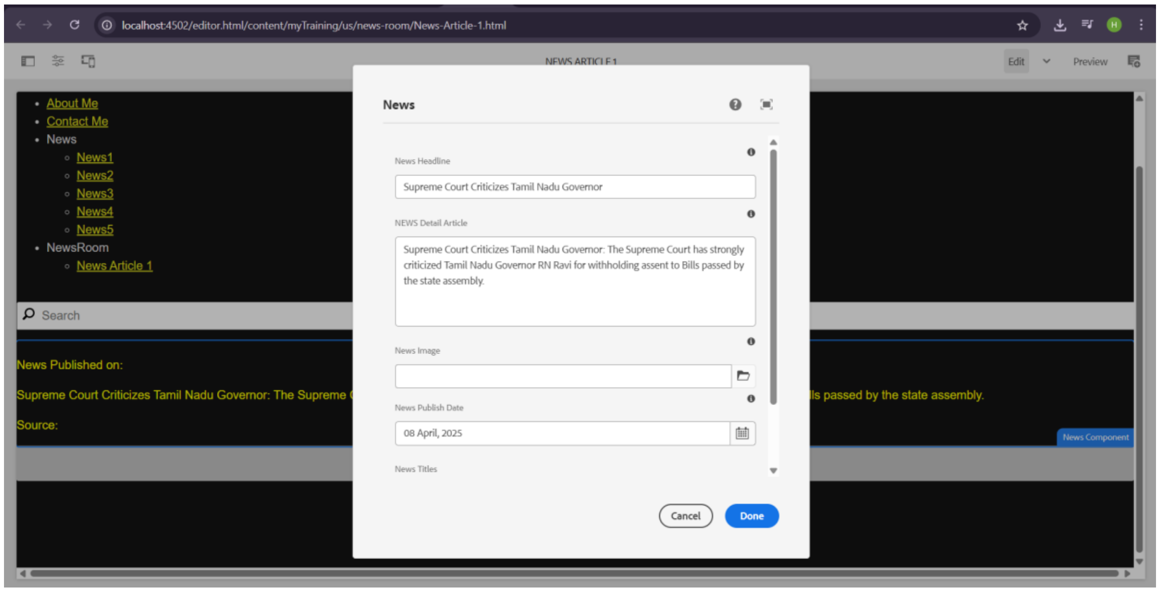
1. **Go to AEM Sites**:
   http://localhost:4502/sites.html

2. Navigate to:
   /content/us/en/

3. Create a new page:

- Template: **News Room Template** (created earlier)
- Page Title: News Article 1
  Repeat for 5 pages:
  News Article 1 to News Article 5




localhost:4502/editor.html/content/myTraining/us/news-room/News-Article-1.html

NEWS ARTICLE 1

- About Me
- Contact Me
- News
  - News1
  - News2
  - News3
  - News4
  - News5
- NewsRoom
  - News Article 1

News Published on:

Supreme Court Criticizes Tamil Nadu Governor: The Supreme ... lls passed by the state assembly.

Source:

News

News Headline: Supreme Court Criticizes Tamil Nadu Governor

NEWS Detail Article: Supreme Court Criticizes Tamil Nadu Governor: The Supreme Court has strongly criticized Tamil Nadu Governor RN Ravi for withholding assent to Bills passed by the state assembly.

News Image:

News Publish Date: 08 April, 2025

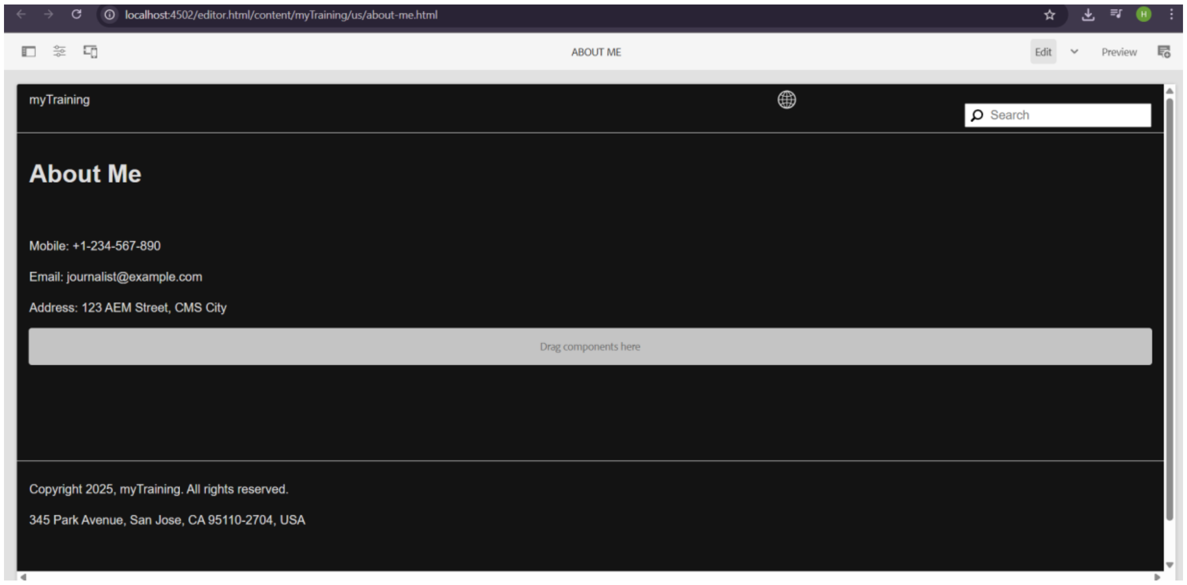
News Titles

2. Create Header Experience Fragment (XF)

• Create an Experience Fragment for the Header.

• Add a navigation menu with:

- News (Menu item linking to the News section)
- Contact Us Page
- About Me Page


localhost:4502/editor.html/content/myTraining/us/about-me.html

ABOUT ME

myTraining

About Me

Mobile: +1-234-567-890

Email: journalist@example.com

Address: 123 AEM Street, CMS City

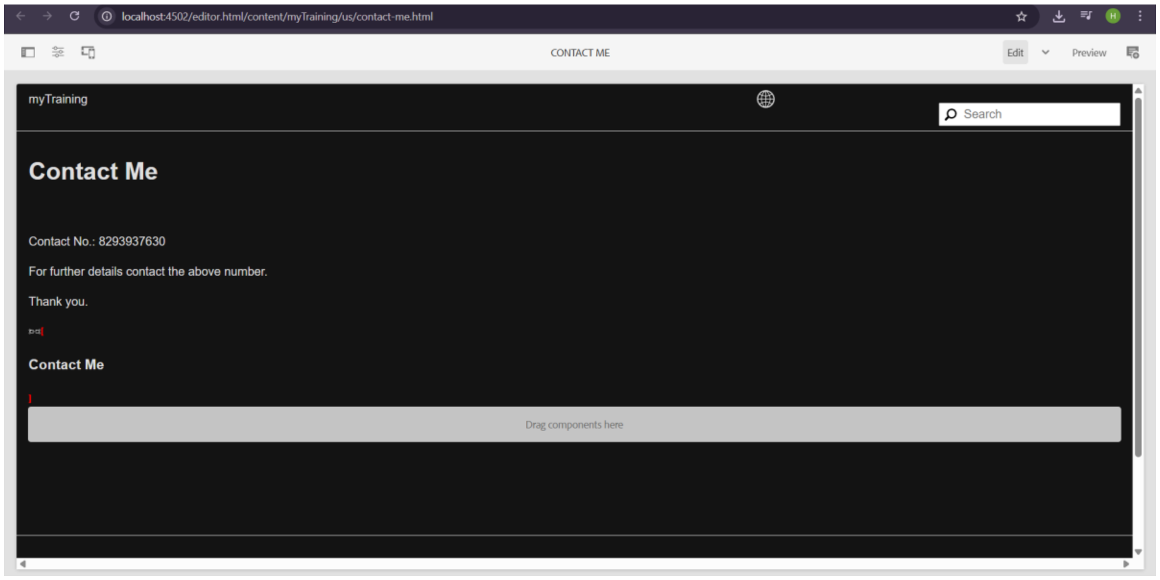
Copyright 2025, myTraining. All rights reserved.

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

3. Create Contact Us Page

• Use Text Component to add:

- Mobile Number
- Office Address
- Email Address


localhost:4502/editor.html/content/myTraining/us/contact-me.html
CONTACT ME
Edit
Preview
myTraining
Search
Drag components here

Contact Me

Contact No.: 8293937630

For further details contact the above number.

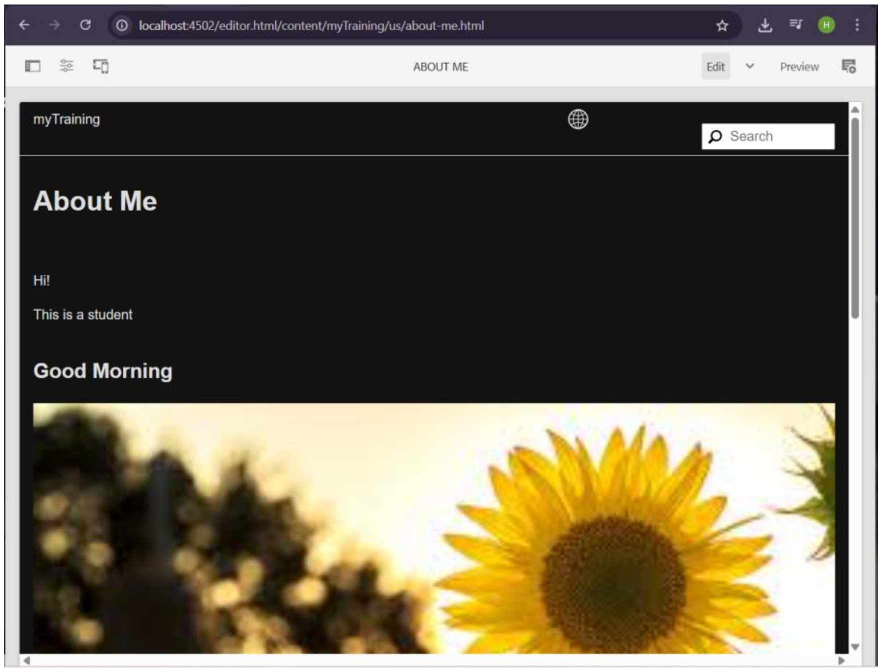
Thank you.

Contact Me

4. Create About Me Page

• Use Teaser or Image Component to display a journalist image.

• Use Text Component for a biography or description.

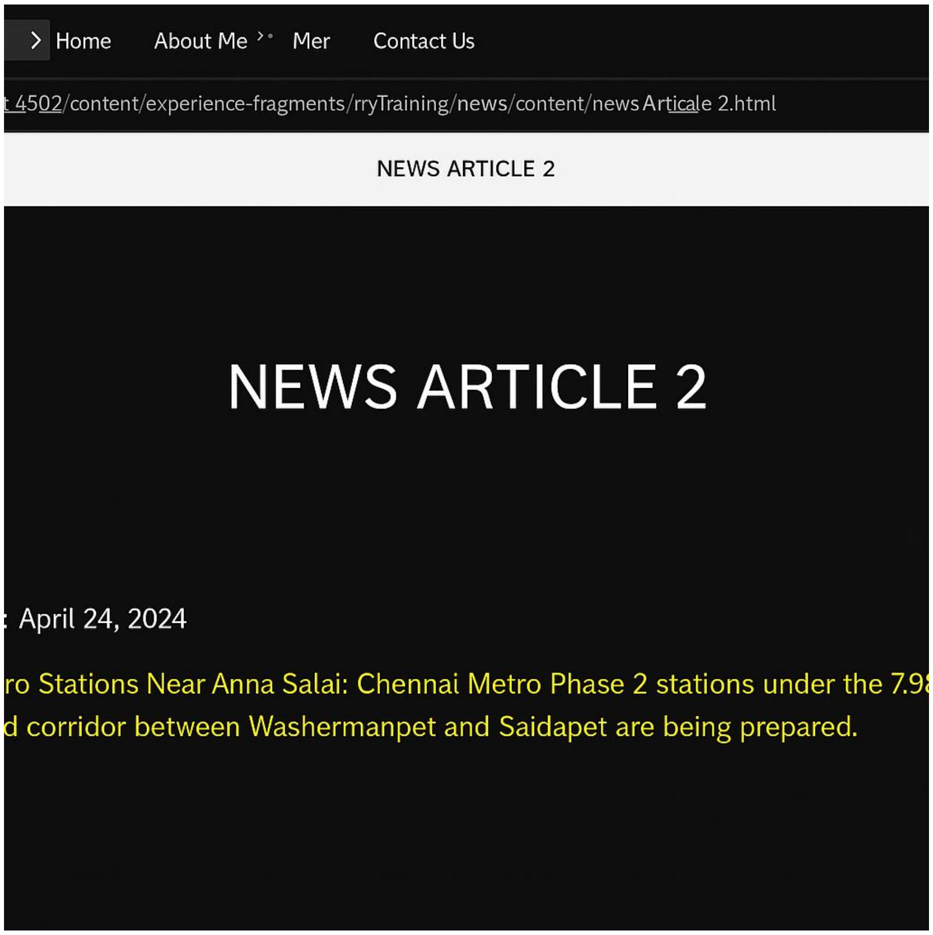

localhost:4502/editor.html/content/myTraining/us/about-me.html
ABOUT ME
Edit
Preview
myTraining
Search

About Me

Hi!

This is a student

Good Morning



t 4502/content/experience-fragments/rryTraining/news/content/news Articale 2.html

NEWS ARTICLE 2

NEWS ARTICLE 2

: April 24, 2024

ro Stations Near Anna Salai: Chennai Metro Phase 2 stations under the 7.9
d corridor between Washermanpet and Saidapet are being prepared.

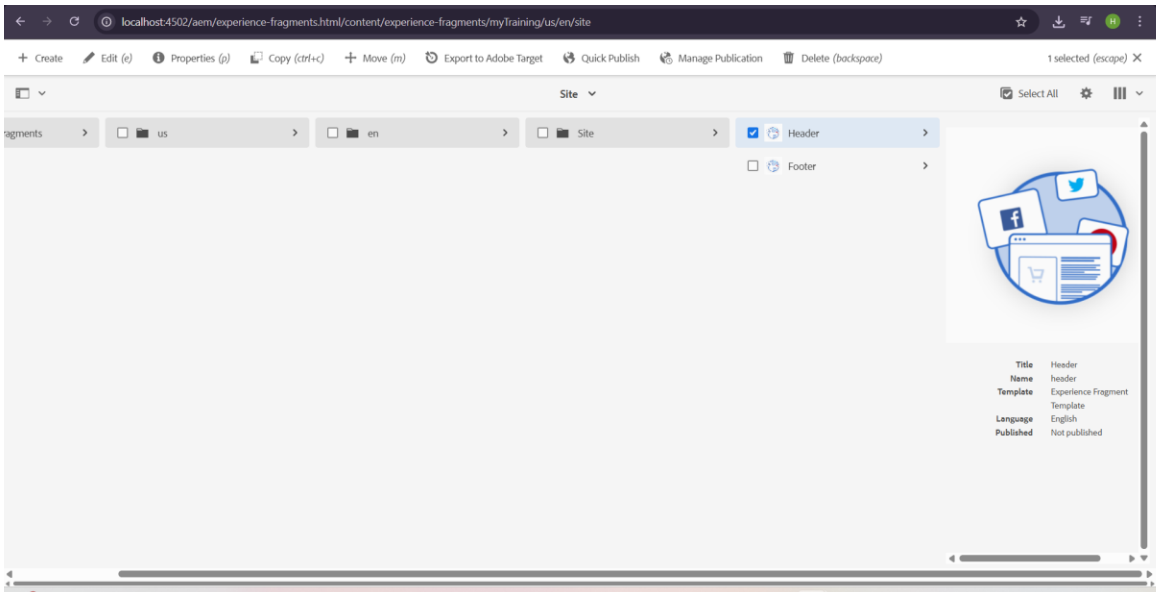
5. Create Footer XF with 4 Sections

• News Menu Section: Use List Component to display 4 recent news articles.

• About Me Section: Use Text Component to provide content about the journalist.

• Contact Us Section: Use Text Component for contact details.

• Social Media Section: Use List Component to provide links to social media accounts.



Title	Header
Name	header
Template	Experience Fragment Template
Language	English
Published	Not published

6. Create Custom Service to Print "Hello World"

Service Implementation:

```
@Component(service = HelloWorldService.class, immediate = true)
public class HelloWorldService {
    public String getMessage() {
        return "Hello World";
    }
}
```

Call Service in Sling Model and Print in Logs:

```
@Model(adaptables = Resource.class, defaultInjectionStrategy =
DefaultInjectionStrategy.OPTIONAL)
public class NewsModel {
    @OSGiService
    private HelloWorldService helloWorldService;

    @PostConstruct
    protected void init() {
        if (helloWorldService != null) {
            String message = helloWorldService.getMessage();
            LOGGER.info("Service Message: {}", message);
        }
    }
}
```

7. Create Custom Configurations for 3rd Party API

OSGi Configuration Interface:

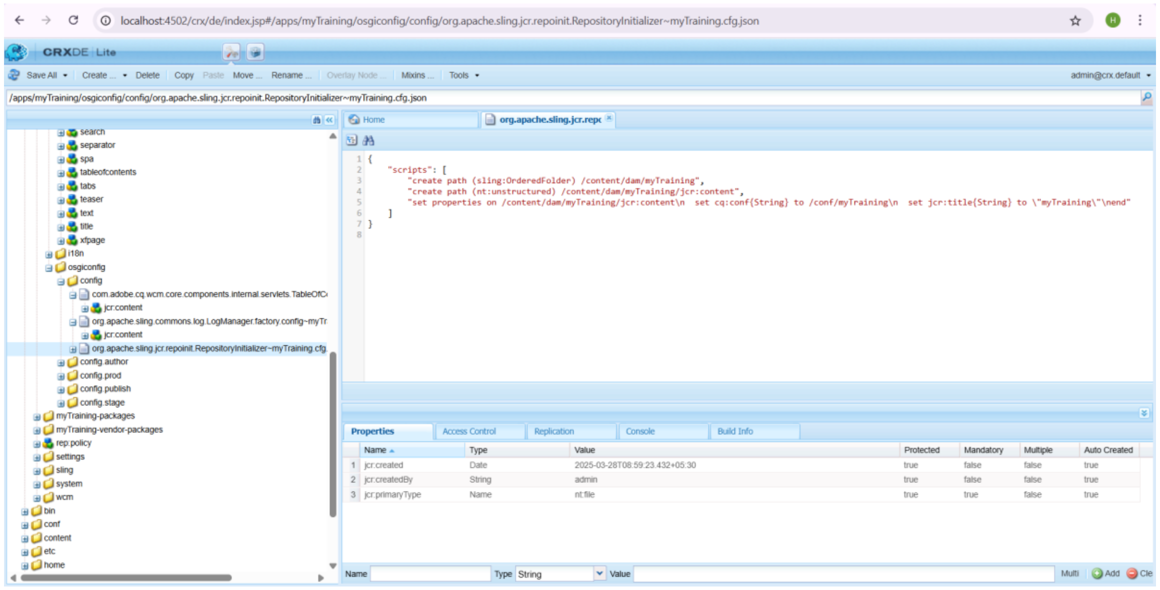
```
@ObjectClassDefinition(name = "Third-Party API Configuration")
public @interface APIConfig {
    @AttributeDefinition(name = "API URL", description = "Provide the API URL")
    String apiUrl() default "https://jsonplaceholder.typicode.com/posts";
}
```

Service Implementation:

```
@Component(service = APIService.class, immediate = true)
@Designate(ocd = APIConfig.class)
public class APIService {
    private String apiUrl;

    @Activate
    @Modified
    protected void activate(APIConfig config) {
        this.apiUrl = config.apiUrl();
    }

    public String fetchAPIData() {
        try (CloseableHttpClient client = HttpClients.createDefault()) {
            HttpGet request = new HttpGet(apiUrl);
            HttpResponse response = client.execute(request);
            return EntityUtils.toString(response.getEntity());
        } catch (Exception e) {
            LOGGER.error("Error fetching API data", e);
        }
        return "";
    }
}
```

Fetch and Print API Data in Logs:

```
@Model(adaptables = Resource.class, defaultInjectionStrategy =
DefaultInjectionStrategy.OPTIONAL)
public class APIModel {
    @OSGiService
    private APIService apiService;

    @PostConstruct
    protected void init() {
        if (apiService != null) {
            String jsonData = apiService.fetchAPIData();
            LOGGER.info("API Response: {}", jsonData);
        }
    }
}
```



localhost:4502/crx/de/index.jsp#/apps/myTraining/osgiconfig/config/org.apache.sling.jcr.repoinit.RepositoryInitializer~myTraining.cfg.json

```
{
    "scripts": [
        "create path (sling:OrderedFolder) /content/dam/myTraining",
        "create path (nt:unstructured) /content/dam/myTraining/jcr:content",
        "set properties on /content/dam/myTraining/jcr:content\n  set cq:conf{String} to /conf/myTraining\n  set jcr:title{String} to \"myTraining\"\nend"
    ]
}
```

	Name	Type	Value	Protected	Mandatory	Multiple	Auto Created
1	jcr:created	Date	2025-03-28T08:59:23.432+05:30	true	false	false	true
2	jcr:createdBy	String	admin	true	false	false	true
3	jcr:primaryType	Name	nt:file	true	true	false	true

Deployment & Configuration Steps:

1. Create News Pages under /content/us/en/news and use News Component.

2. Create Header XF with a menu linking to News, About Me, and Contact Us.

3. Create Contact Us and About Me pages using text, teaser, and image components.

4. Create Footer XF with News List, About Me, Contact, and Social Media.

5. Deploy Custom Service to print "Hello World" and call it in Sling Model.
6. Configure API OSGi Service and fetch JSON data from a third-party API.
7. Test Logging for service calls and API fetch.