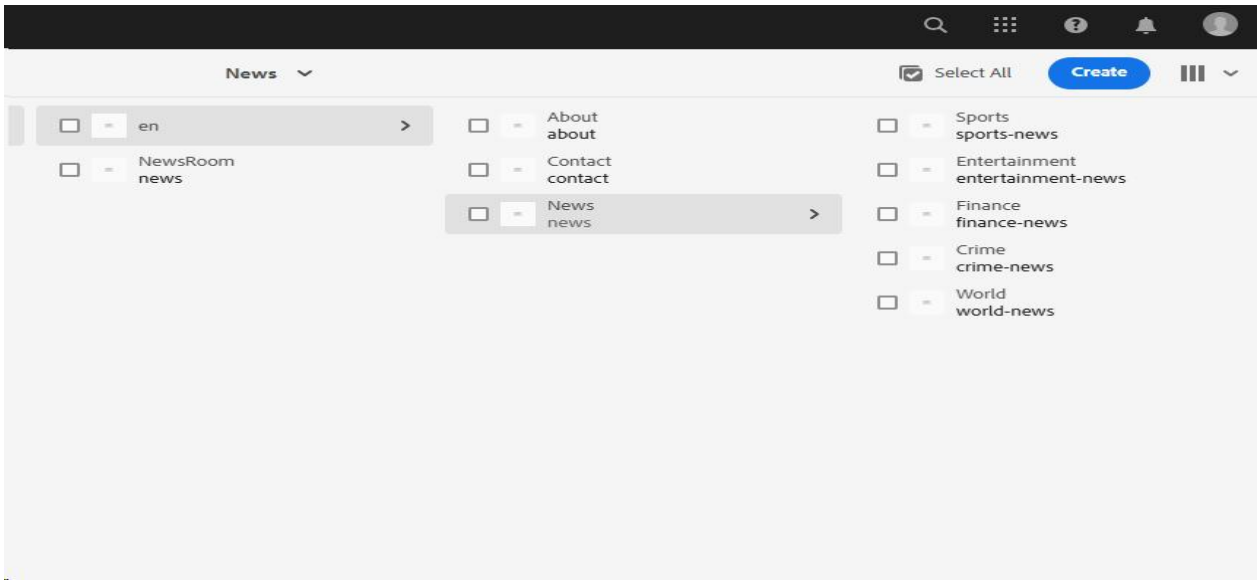
1. Create 5 News Article Pages

Objective: Create 5 unique news article pages within AEM to display content.

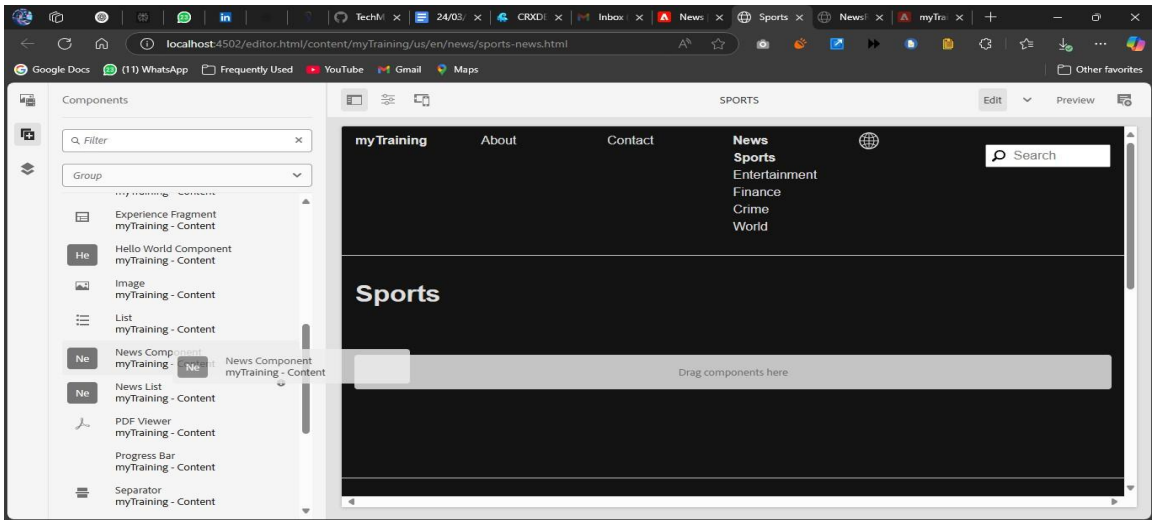
Steps:

1. **Navigate to Content Folder**:
    - Go to **/content/us/en/news** in AEM's CRX/DE or AEM Author instance.
2. **Create News Article Pages**:
    - Right-click on the `/news` folder and create 5 new pages.
    - Each page should have a unique title, for example:
        - News Article 1
        - News Article 2
        - News Article 3
        - News Article 4
        - News Article 5

    Ensure each page has distinct content for each article.



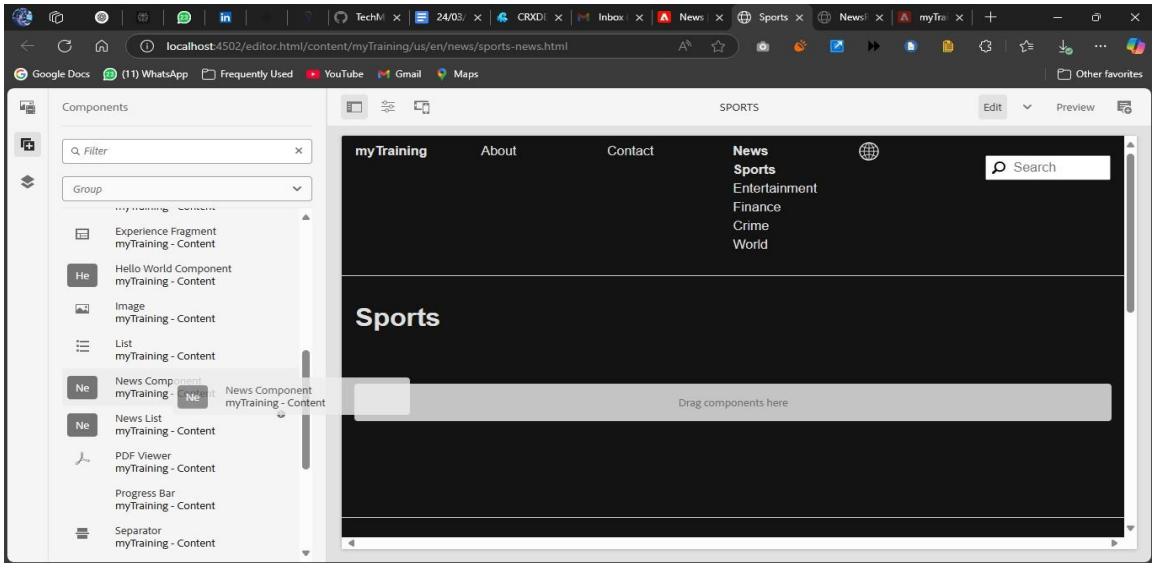
2.Use News Component

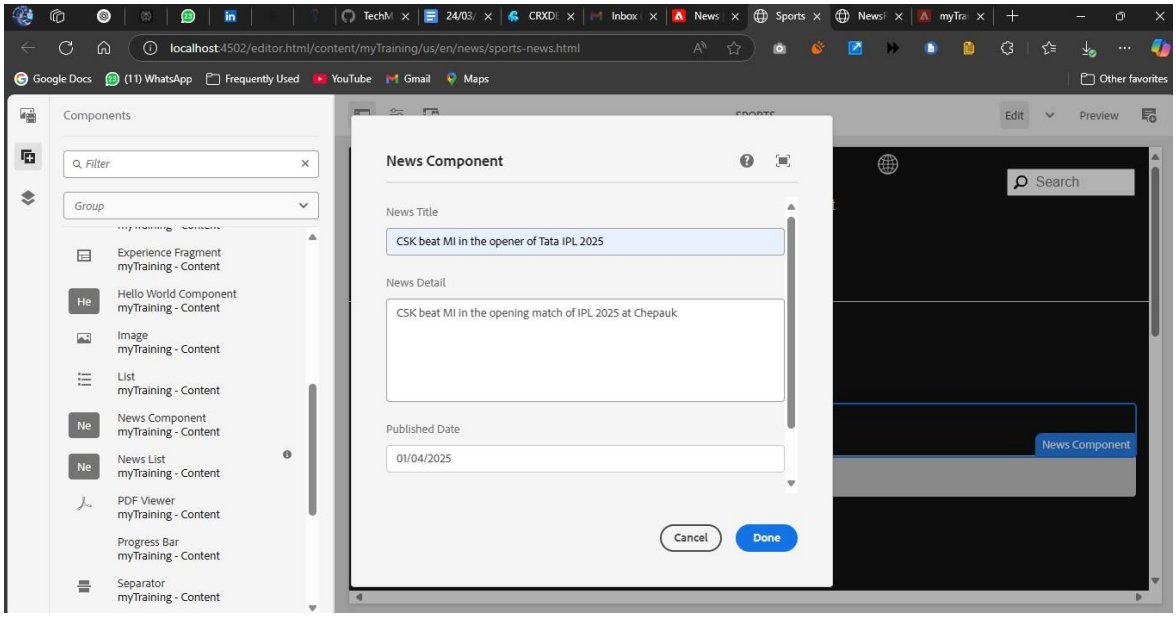


Objective: Add a previously created **News Component** to each news page to display content like title, detail, and published date.

Steps:

3. **Create or Locate the News Component**:
    - If not already created, ensure the **News Component** is available under `/apps/myTraining/components/structure/news`.
4. **Add Component to Each News Page**:
    - Edit each of the 5 news article pages.
    - Add the **News Component** to the page by dragging it from the sidekick (or adding it via the component tab in the page editor).

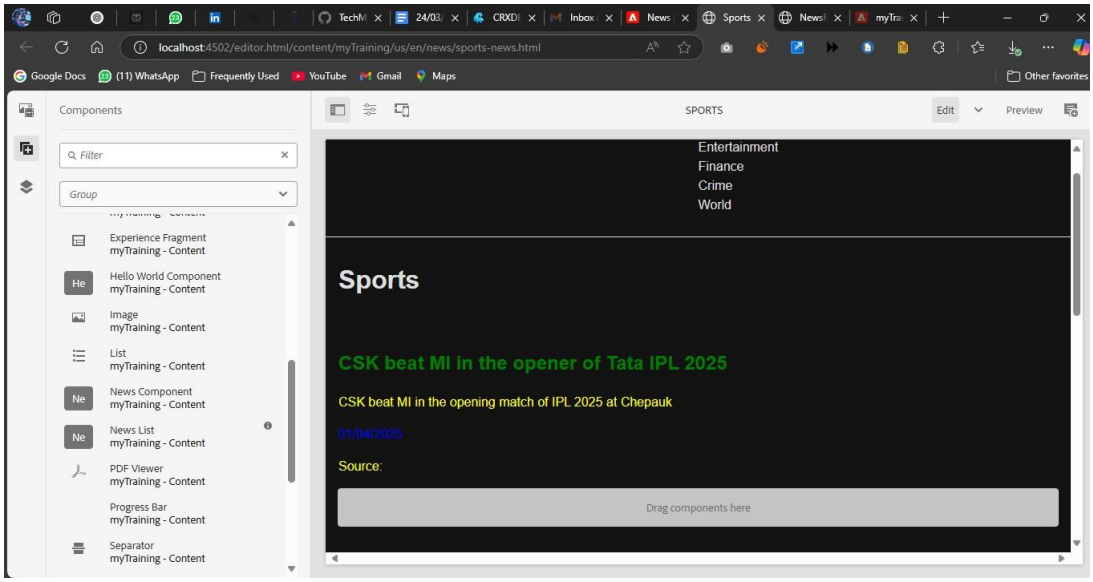




5. **Customize the News Component**:

```
<div class="news-item">

  <h2 style="color: green;">${title}</h2>
  <p style="color: yellow;">${newsDetail}</p>
  <span style="color: black;">Published on: ${publishedDate}</span></div>
```



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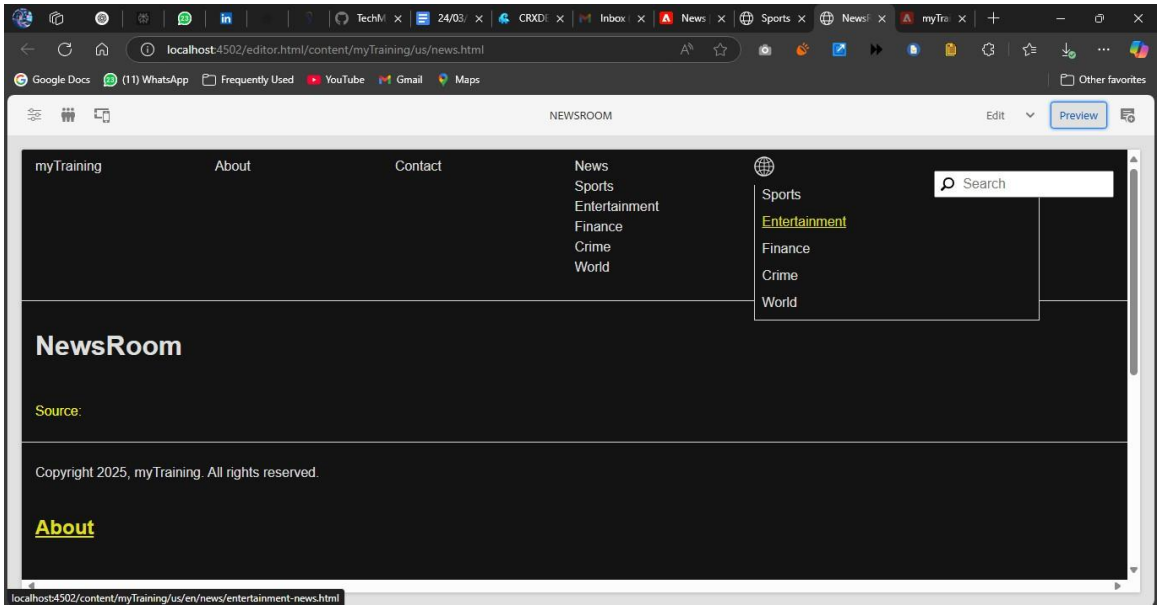
2. Create Header Experience Fragment

Objective: Design a **Header Experience Fragment** to contain the navigation menu and important links.

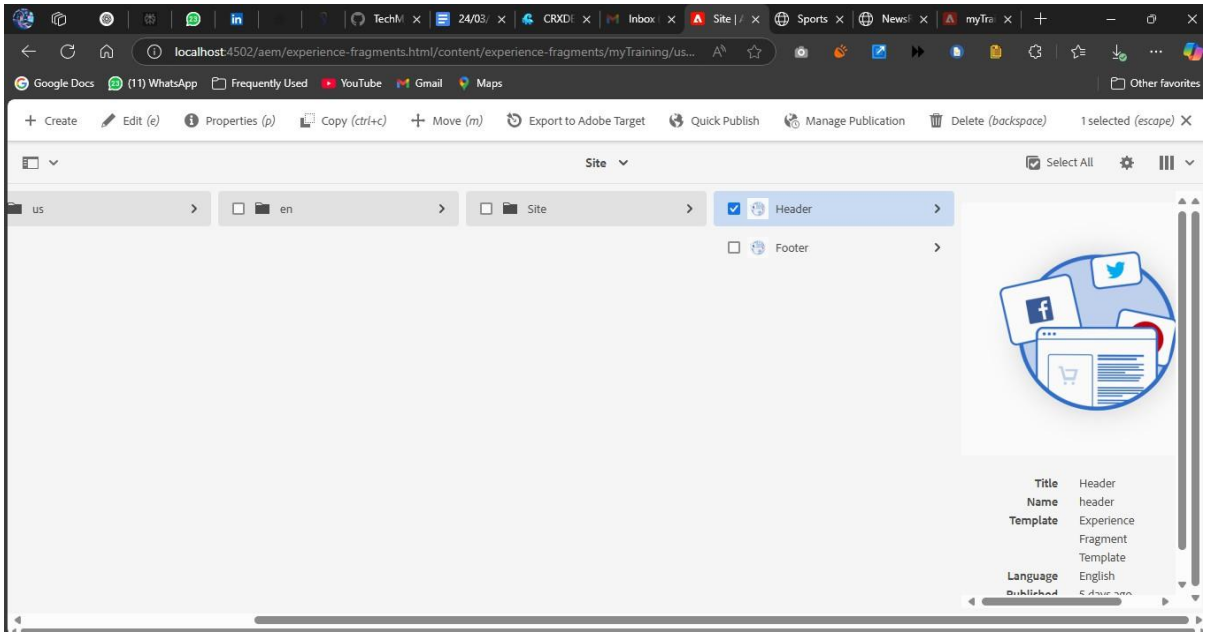
Steps:

1. **Navigate to Experience Fragments**:
    - Go to **/content/experience-fragments** in AEM.
    - Create a new experience fragment for the header (e.g., `header-fragment`).
2. **Design the Header**:
    - Add a **Navigation Menu** component.
    - Link the following pages:
        - News Menu (Links to news pages)
        - Contact Us Page
        - About Me Page



3. **Publish the Experience Fragment**:

    - Once designed, make sure the experience fragment is published and ready for use across pages.

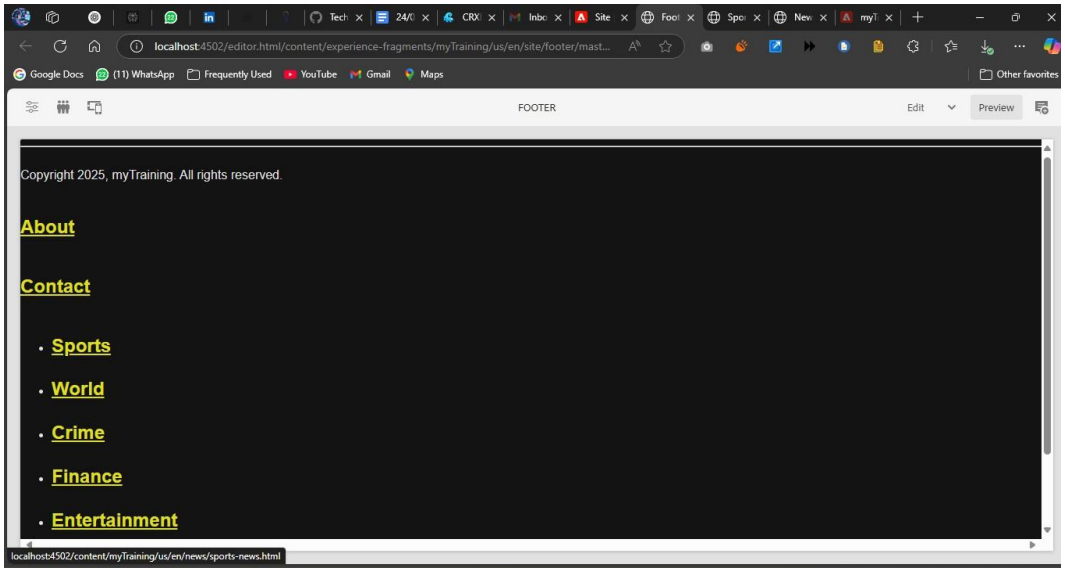


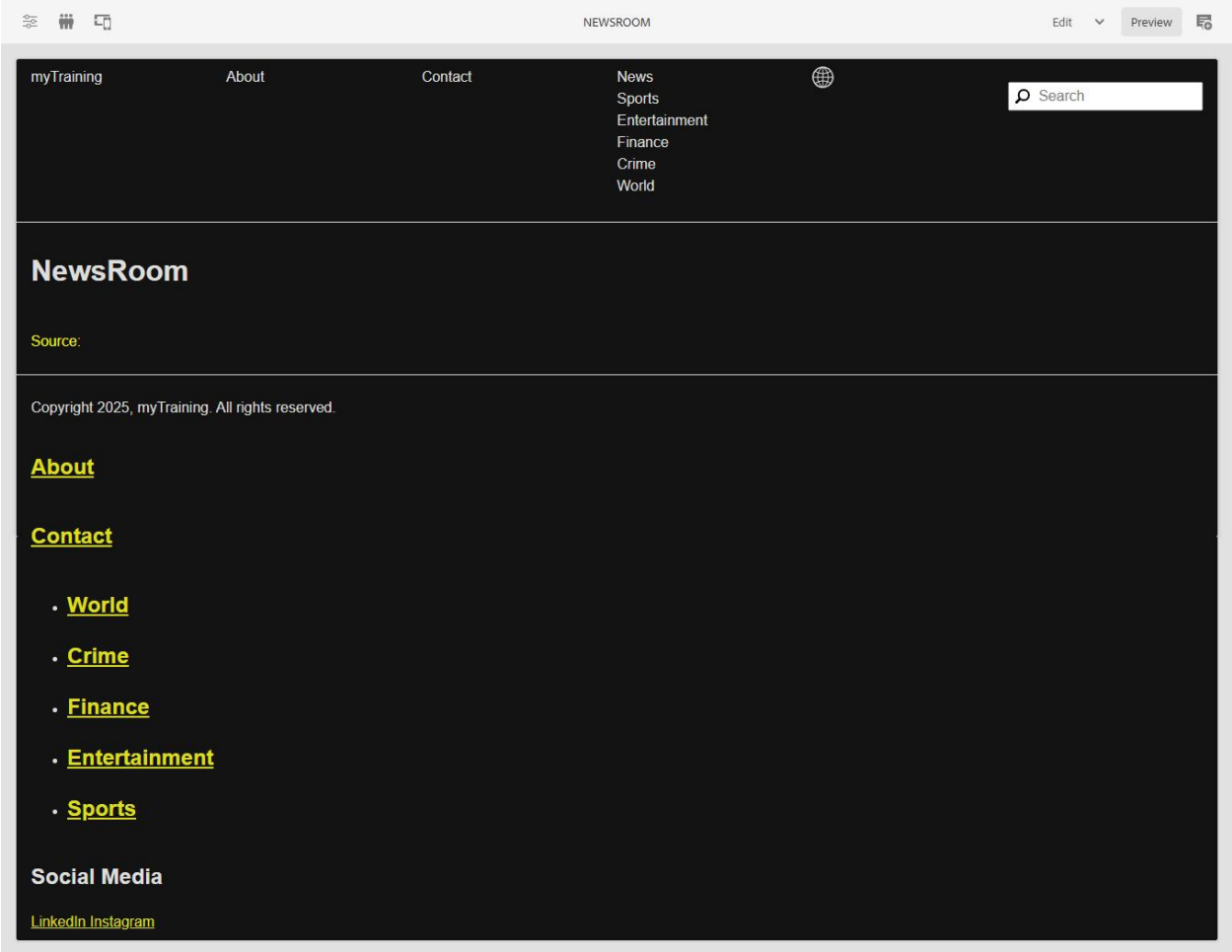
3. Create Footer Experience Fragment

Objective: Create a **Footer Experience Fragment** with multiple sections, including news articles, contact information, and social media links.

Steps:

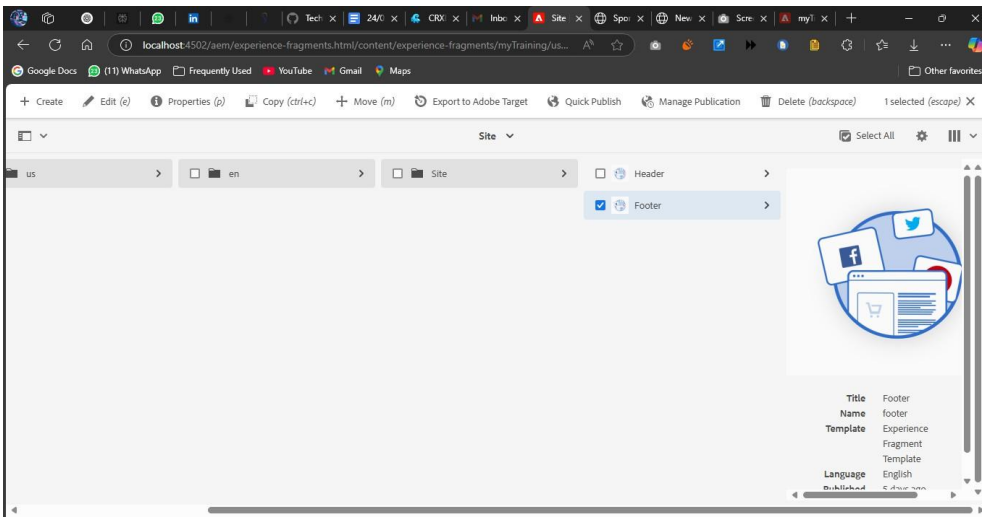
1. **Navigate to Experience Fragments**:
    - Go to **/content/experience-fragments** in AEM.
    - Create a new experience fragment for the footer (e.g., `footer-fragment`).
2. **Design the Footer**:
    - Add the following sections using appropriate components:
        - **News Menu Section**: Add a **List Component** to display the 4 most recent news articles.
        - **About Me Section**: Add a **Text Component** to provide brief information about the journalist.
        - **Contact Us Section**: Add a **Text Component** to list the contact details (email, phone, office address).
        - **Social Media Section**: Add a **List Component** for links to social media accounts.





3. **Publish the Experience Fragment**:

    - Once complete, publish the footer experience fragment.



4. Create Custom Service

Objective: Develop a **Custom Service** in AEM that prints `Hello World` and is called within the **News Component's Sling Model**.

Steps:

1. **Create a Service Interface**:

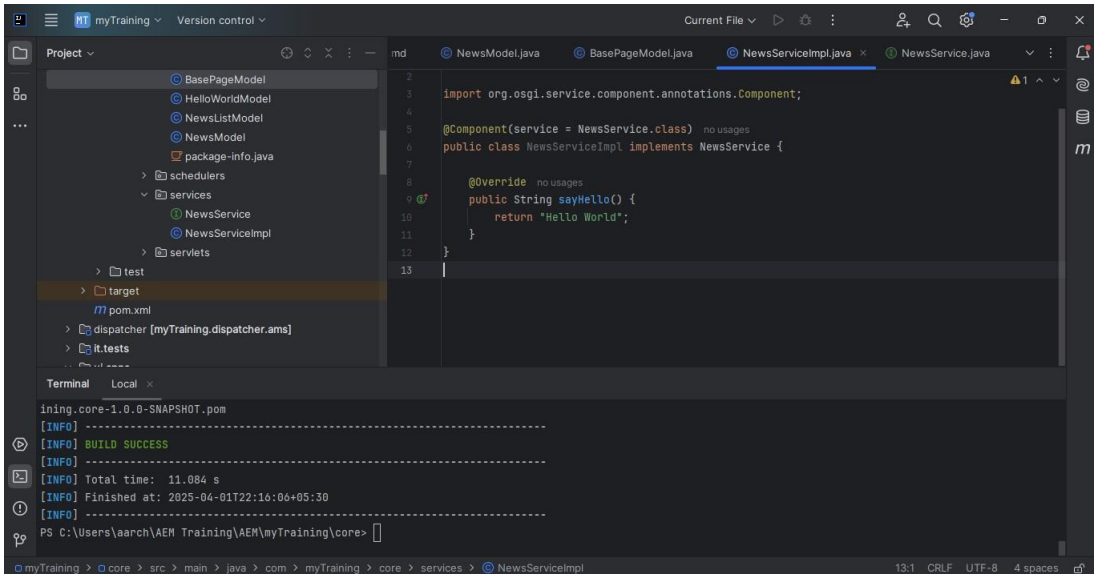
In your `core` module, create a service interface like `NewsService`:

```
 public interface NewsService {
    String sayHello();
}
```

2. **Create the Service Implementation**:

Implement the service interface in a new class `NewsServiceImpl`:

```
 @Component(service = NewsService.class)
public class NewsServiceImpl implements NewsService
    { @Override
    public String sayHello()
        { return "Hello World";
    }
}
```



3. **Inject and Call the Service in Sling Model**:

In the `BasePageModel` or a new `NewsComponentModel`, inject and use the service:

```
 @Inject
private NewsService newsService;

public String getGreeting()
   { return
   newsService.sayHello();
}
```

4. **Log the Output**:

Log the service output in the AEM logs to confirm it's working:

```
 @Activate
@Modified
public void logGreeting() {
   String greeting = getGreeting();
   LOGGER.info(greeting);  // Logs "Hello World"
}
```

5. Create Custom Configuration

Objective: Create a **Custom Configuration** to store a third-party API URL and fetch JSON data from it.

Steps:

1. **Create the Configuration Interface**:

Define a Sling Model or OSGi configuration to store the API URL.

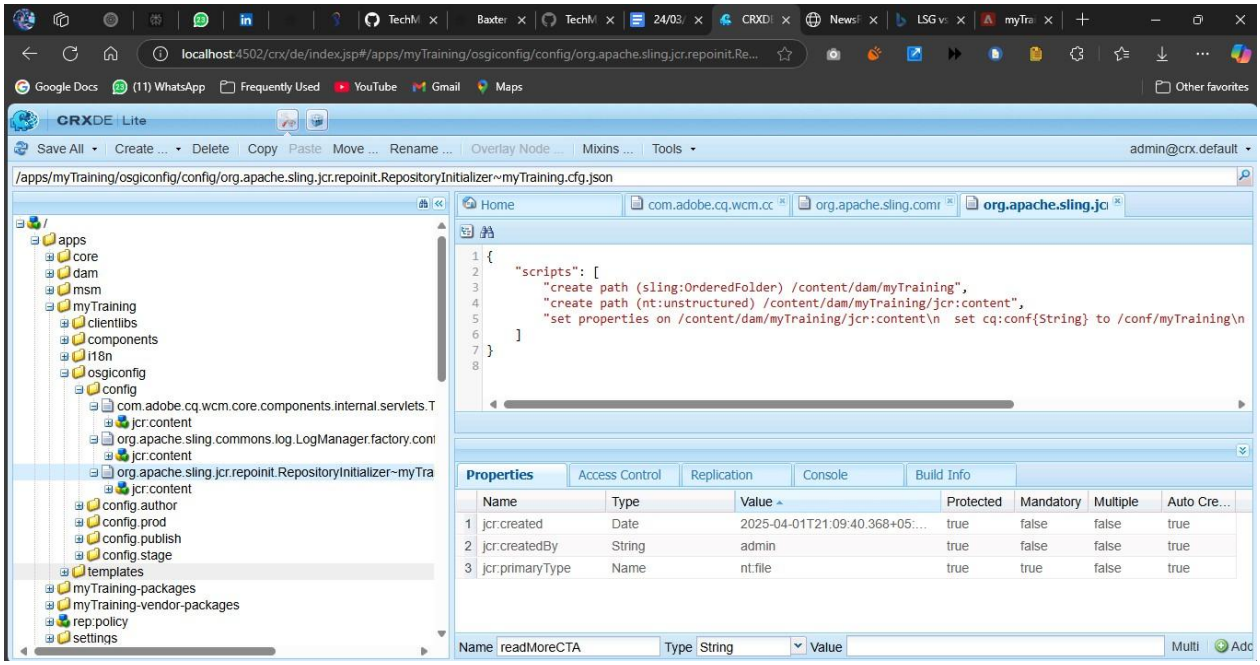
```
 @Designate(ocd = MyConfig.class)
public class MyConfig
   { @Activate
   @Modified
   public void activate() {
      String apiUrl = config.apiUrl();
      LOGGER.info("Configured API URL: " + apiUrl);
```

```
    }

    @Activate
    @Modified
    @Property
    private String apiUrl;
}
```

2. **Create the Configuration Dialog**:

    - Add a configuration dialog under `/apps/myTraining/configs` where you can input the third-party API URL, such as `https://jsonplaceholder.typicode.com/posts`.



3. **Fetch API Data**:

In the service or Sling model, fetch data from the configured API URL:

```
 HttpClient client = HttpClients.createDefault();
HttpGet request = new HttpGet(apiUrl);
HttpResponse response = client.execute(request);
String jsonResponse = EntityUtils.toString(response.getEntity());
LOGGER.info("Fetched API Response: " + jsonResponse);
```