

# 24/03/2025 - TASKS

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### 1. Create 5 News Article Pages

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

**Steps:**

1. **Navigate to Content Folder:**

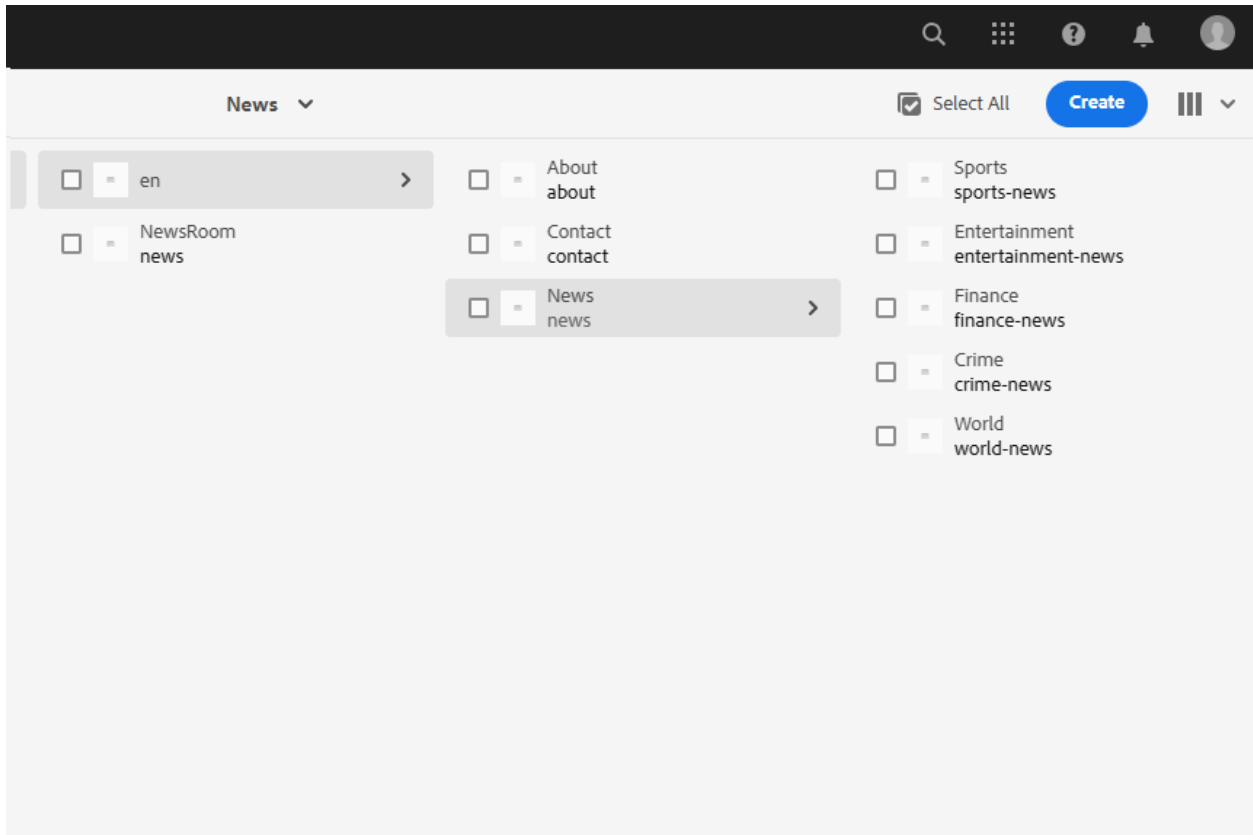
- Go to **/content/us/en/news** in AEM's CRX/DE or AEM Author instance.

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:

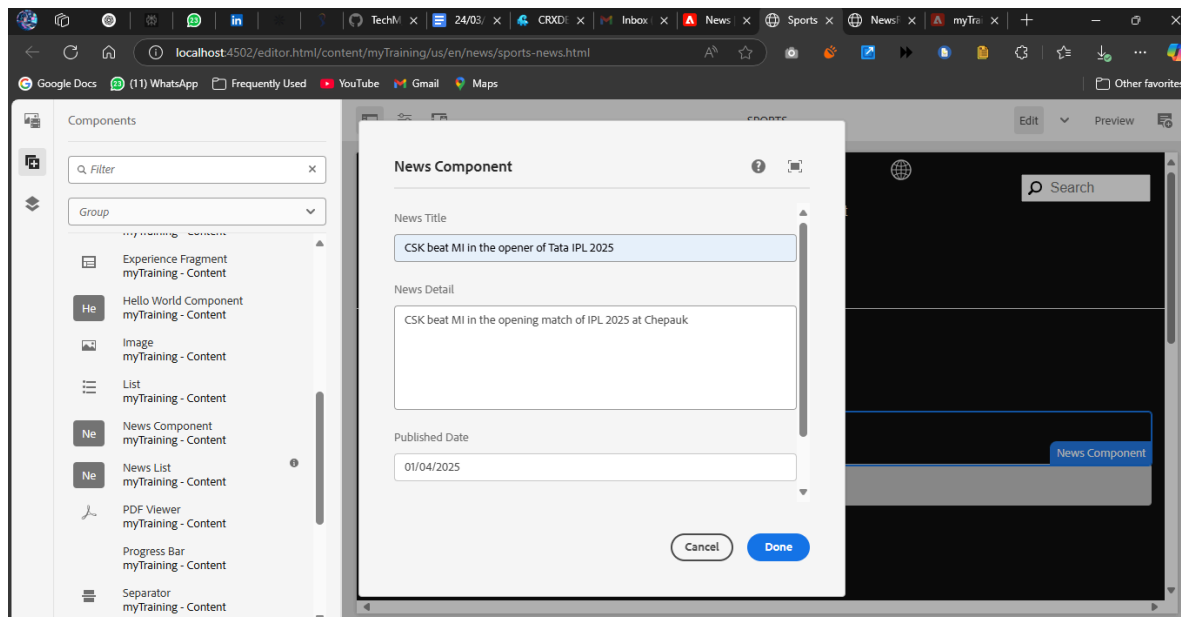
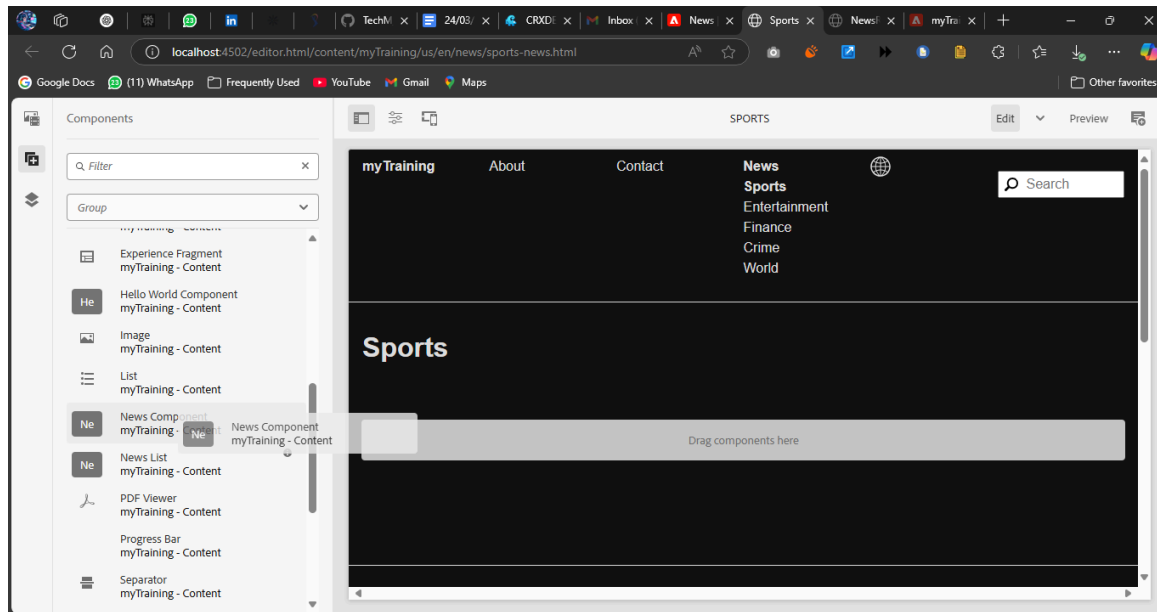
#### 1. Create or Locate the News Component:

- If not already created, ensure the **News Component** is available under </apps/myTraining/components/structure/news>.

#### 2. 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).



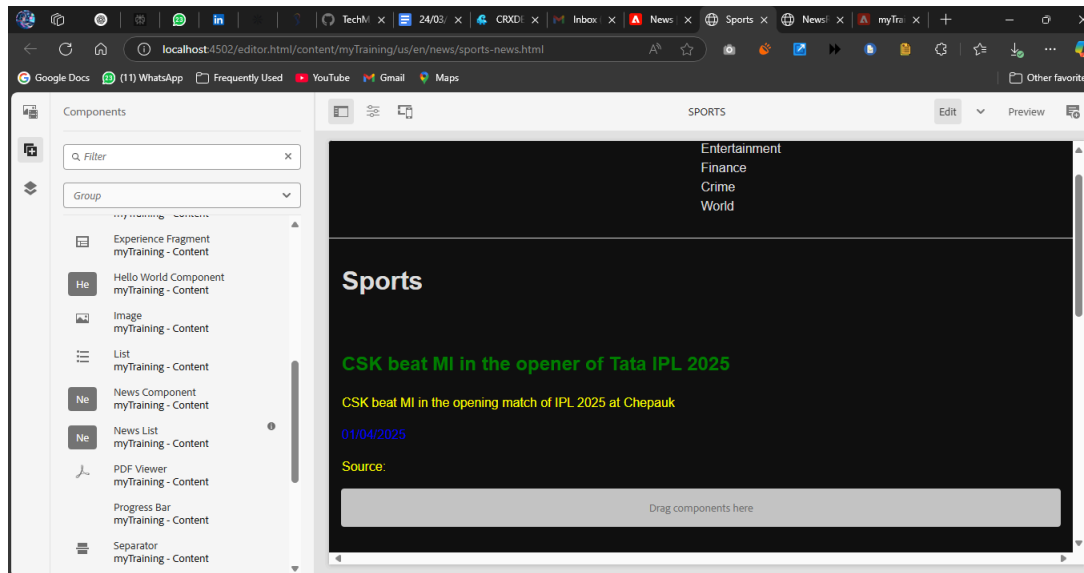
### 3. Customize the News Component:

```
<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>
```



### 3. Create Header Experience Fragment

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

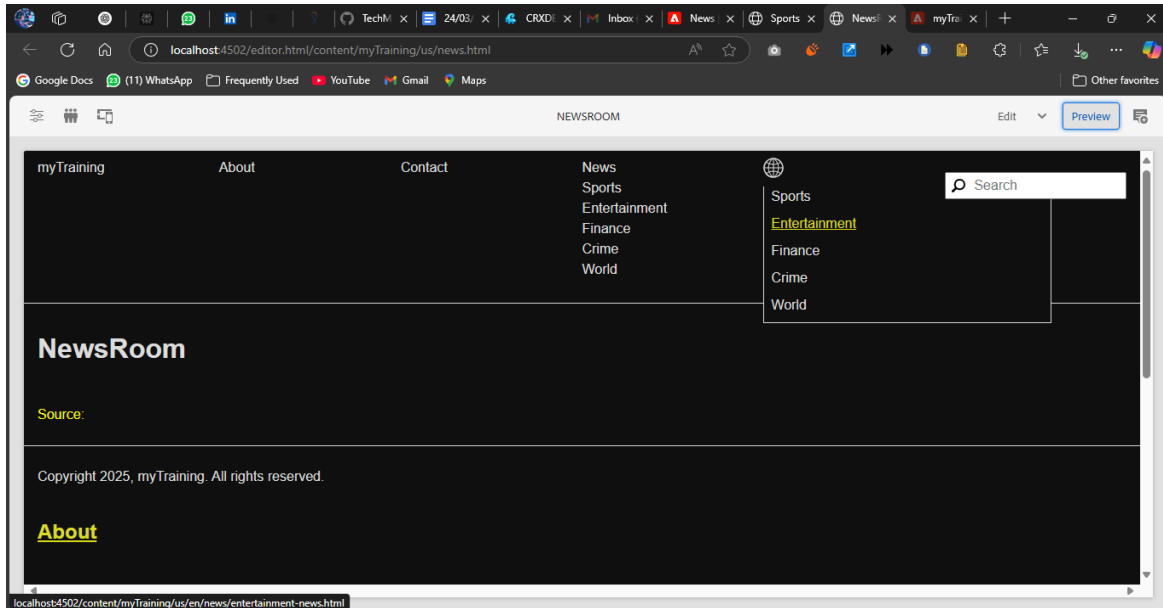
**Steps:**

#### 1. Navigate to Experience Fragments:

- Go to **/content/experience-fragments** in AEM.
- Create a new experience fragment for the header (e.g., **header-fragment**).

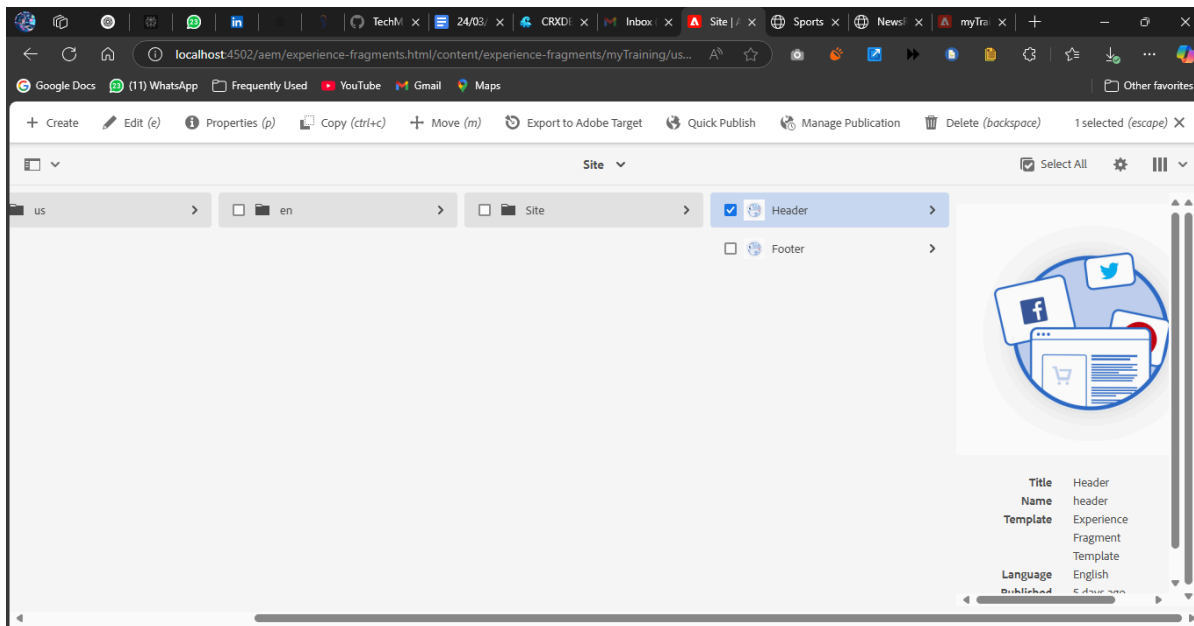
#### 2. Design the Header:

- 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.



## 4. Create Footer Experience Fragment

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

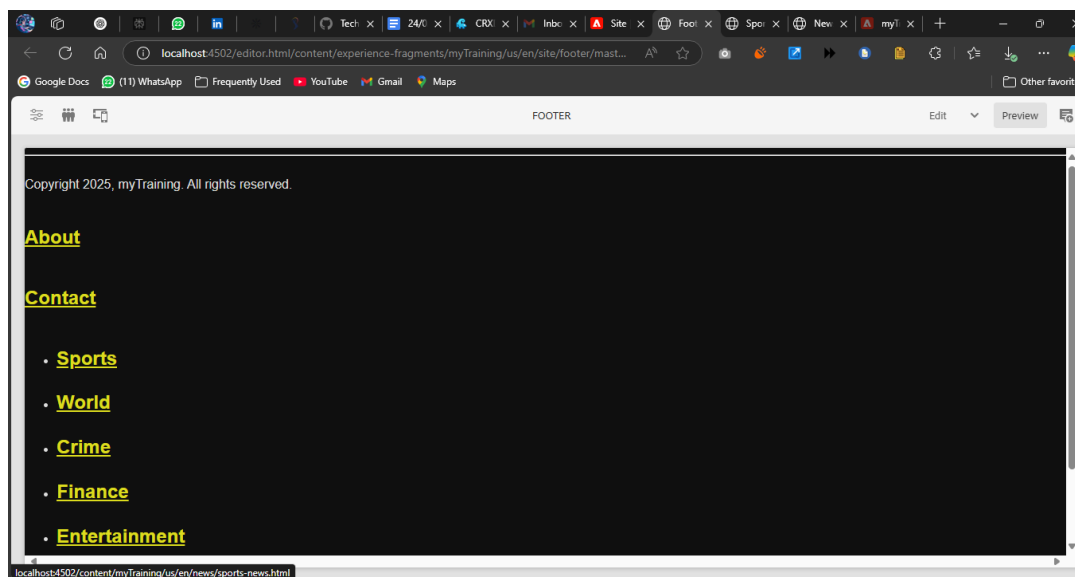
### Steps:

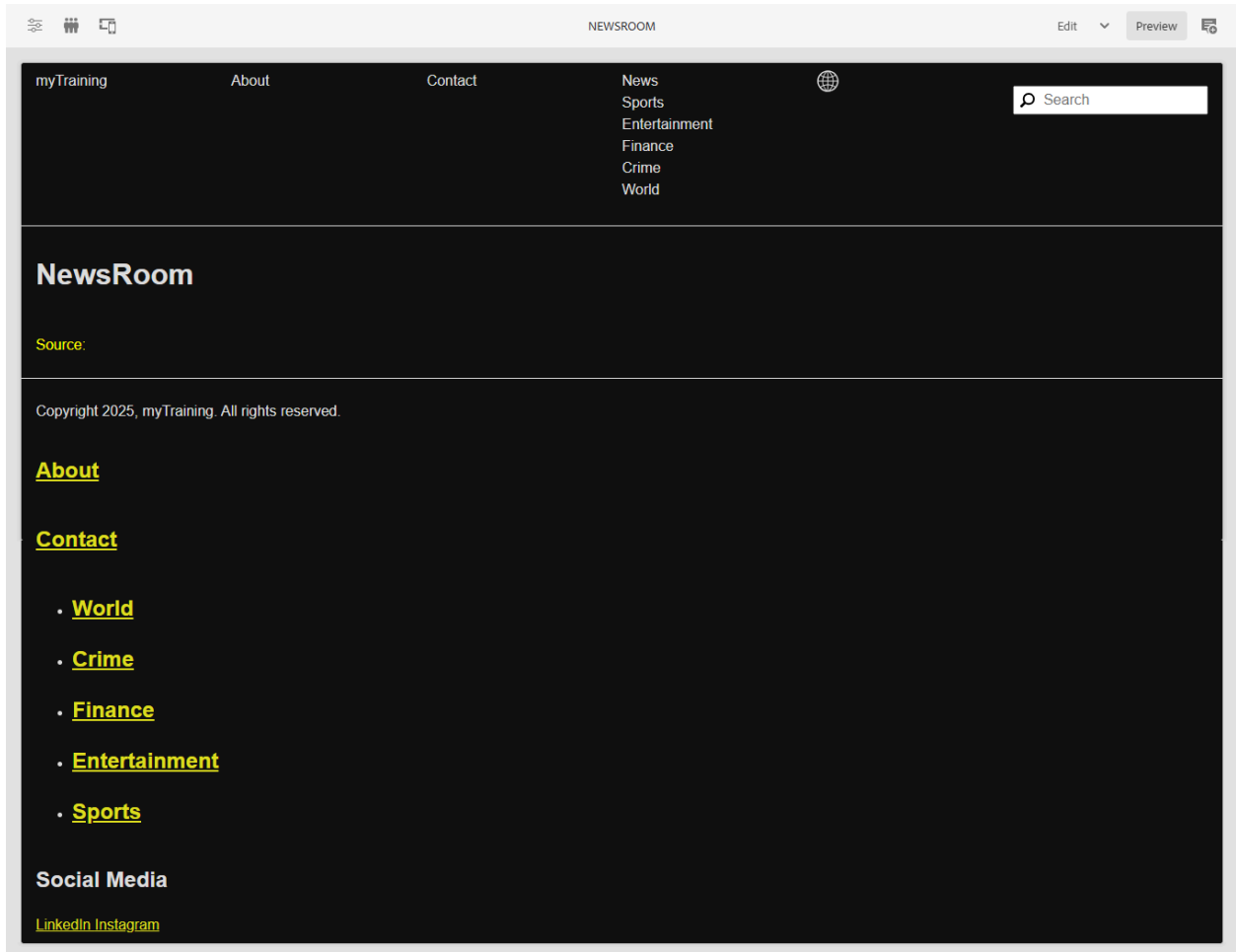
#### 1. Navigate to Experience Fragments:

- Go to **/content/experience-fragments** in AEM.
- Create a new experience fragment for the footer (e.g., **footer-fragment**).

#### 2. Design the Footer:

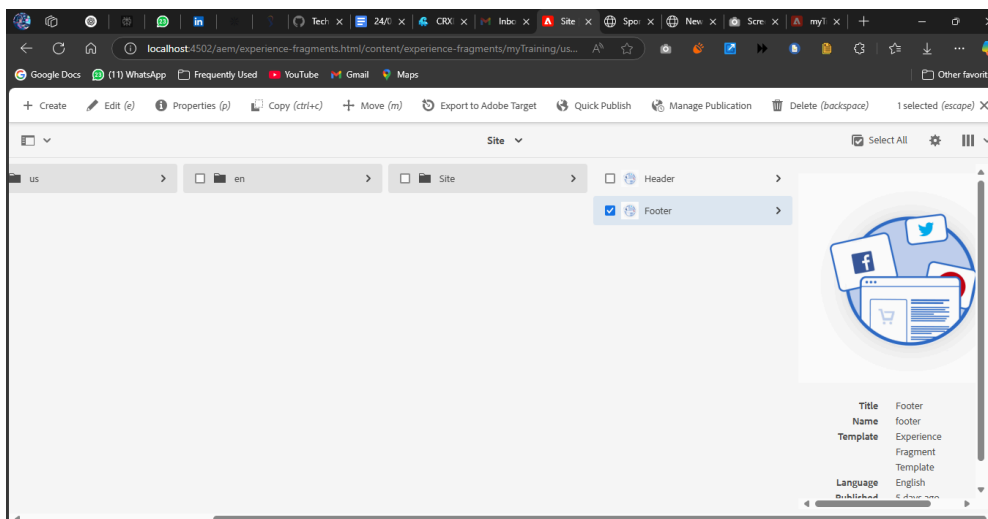
- Add the following sections using appropriate components:
  - **News Menu Section:** Add a **List Component** to display the 4 most recent news articles.
  - **About Me Section:** Add a **Text Component** to provide brief information about the journalist.
  - **Contact Us Section:** Add a **Text Component** 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.



## 5. 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:

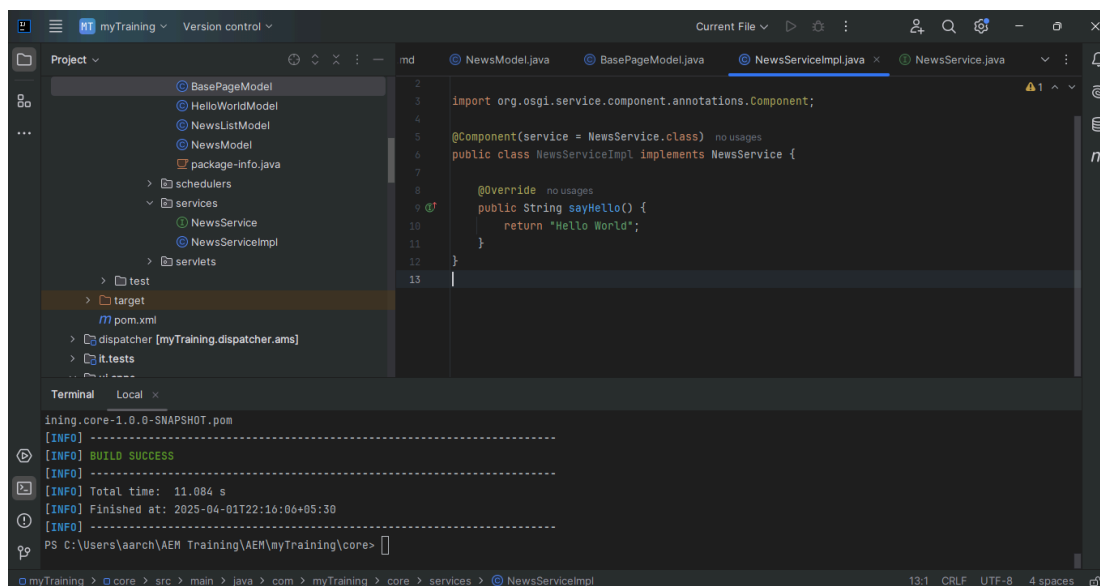
In your **core** module, create a service interface like **NewsService**:

```
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"
}
```

## 6. 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);
    }
}
```

```

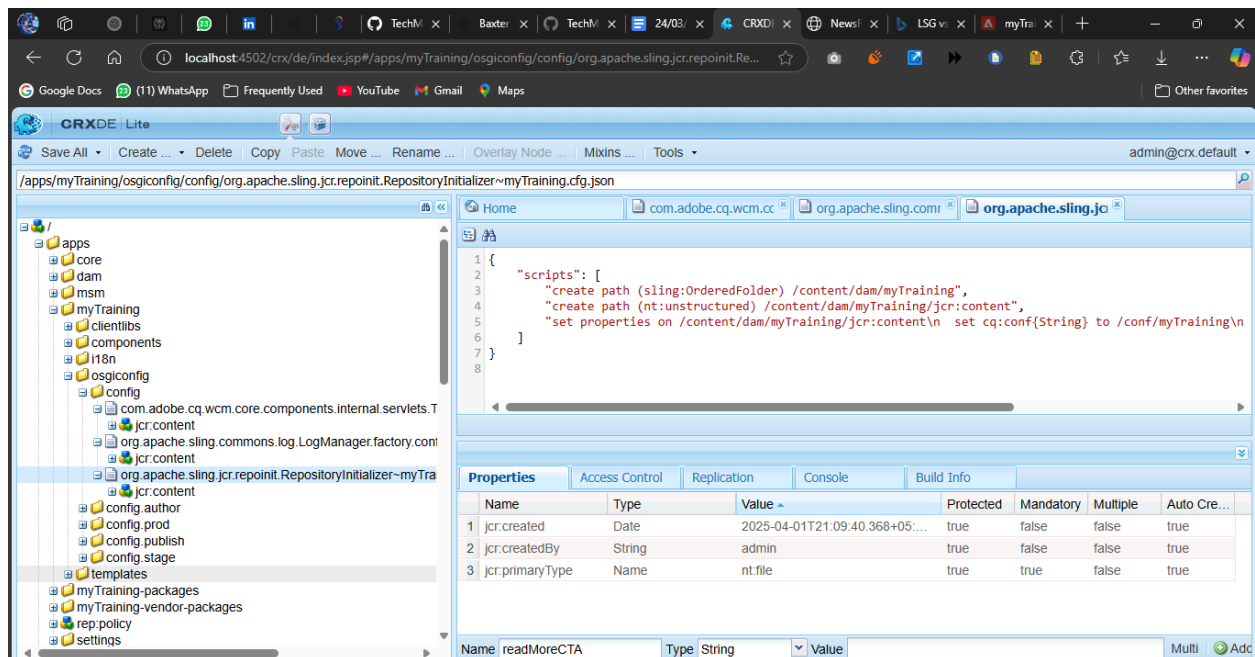
}

@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);

```