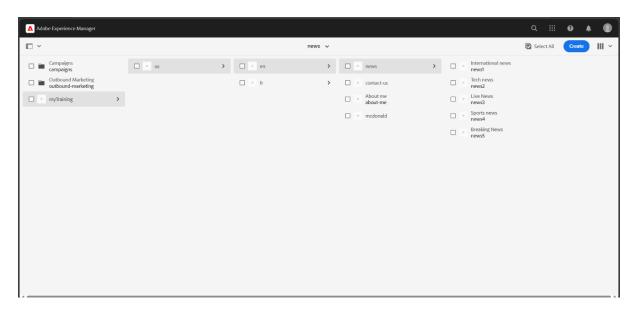
### AEM - Task 5

### **Step 1: Create 5 News Article Pages**

- 1. Navigate to AEM Sites  $\rightarrow$  /content/us/en/news.
- 2. Click Create → Page, choose the News Template, and enter details:
  - Title: Unique for each article (e.g., "Tech Innovations 2025",
     "Global Economy Update", "AI in Healthcare", etc.).
  - Page Name: news-1, news-2, etc.
- 3. Open each page and add the News Component:
  - Title: Set appropriate news title.
  - News Details: Add content.
  - Published Date: Set date.
- 4. Save and publish.

### Screenshot



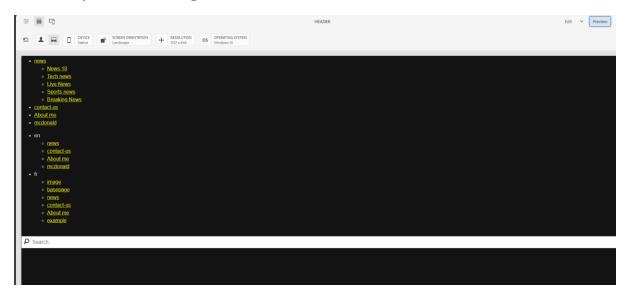
# **Step 2: Create Header Experience Fragment (XF)**

- 1. Navigate to AEM → Experience Fragments.
- 2. Click Create → Experience Fragment.

- 3. Choose Header Template, set the name as News Header, and save it at /content/experience-fragments/us/en/news-header.
- 4. Open the News Header XF, add:
  - Navigation Component (links to "News", "About Me", and "Contact Us").
- 5. Save and publish.

### Screenshot

Experience Fragmnt



Header Display



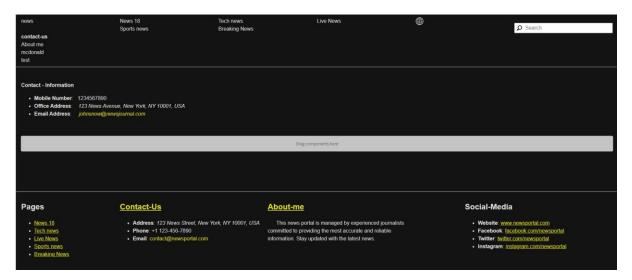
# Step 3: Create "About Me" and "Contact Us" Pages

- 1. Navigate to /content/us/en/ → Create Page for:
  - o About Me Page
  - Contact Us Page
- 2. Edit "About Me" Page:

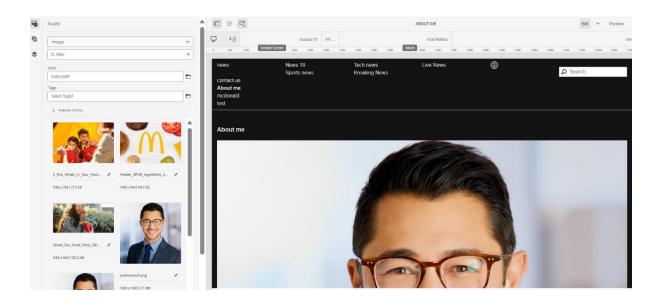
- Image Component: Journalist photo.
- Text Component: Biography.
- Title Component: "About Me".
- 3. Edit "Contact Us" Page:
  - Text Component: Phone number, email, and office address.
- 4. Save and publish.

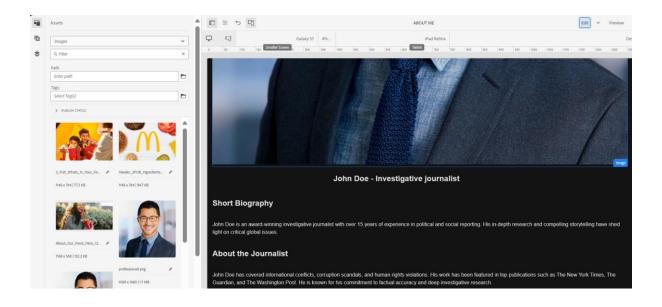
## **Screenshots**

# **Contact page**



# About us page





# **Step 4: Create Footer Experience Fragment (XF)**

- 1. Navigate to AEM → Experience Fragments.
- 2. Click Create → Experience Fragment and choose Footer Template.
- 3. Name it News Footer, path: /content/experience-fragments/us/en/news-footer.
- 4. Add sections:
  - News Menu (List Component): Show 4 recent articles.
  - About Me (Text Component): Add journalist info.
  - Contact Us (Text Component): Add contact details.
  - Social Media (List Component): Add links to social profiles.
- 5. Save and publish.

### Screenshot



## Step 5: Create a Custom Service to Print "Hello World"

1. Navigate to your AEM Core Module and create a new Java service:

#### Java Code:

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

2. Inject this service into your News Component's Sling Model:

### Java Code:

```
@Model(adaptables = Resource.class, defaultInjectionStrategy =
DefaultInjectionStrategy.OPTIONAL)

public class NewsModel {
    @OSGiService
    private HelloWorldService helloWorldService;
    public String getHelloMessage() {
        return helloWorldService.getMessage();
    }
}
```

3. Print the message in logs:

### Java Code:

```
private static final Logger LOG = LoggerFactory.getLogger(NewsModel.class);
public String getHelloMessage() {
    String message = helloWorldService.getMessage();
    LOG.info("HelloWorldService Output: {}", message);
    return message;
}
```

4. Deploy and test it by checking AEM logs (tail -f error.log).

02.04.2025 09:23:06.845 \*INFO\* [[0:0:0:0:0:0:0:1] [1743567786653] GET /content/myTraining/us/en/img/jcr:content/root/container/container/news.html HTTP/1.1] com.myTraining.core.models.NewsComponentModel News Component says: Hello World from AEM Service!

## **Step 6: Create Custom Configurations for Third-Party API**

- 1. Go to **AEM** → **Tools** → **Configuration Browser**.
- 2. Click **Create** → **Configuration** and name it thirdPartyAPIConfig.
- 3. Open **OSGi Configuration Console** and create a new configuration:

#### Java code:

```
@Component(service = ThirdPartyAPIService.class, immediate = true)
@Designate(ocd = ThirdPartyAPIConfig.class)
public class ThirdPartyAPIService {
  @Activate
  @Modified
  protected void activate(ThirdPartyAPIConfig config) {
    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) {
      LOG.error("Error fetching API data", e);
      return "{}";
    }
  }
```

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

### 4. Deploy and check logs (tail -f error.log)

}

 Expected Output: JSON data from https://jsonplaceholder.typicode.com/posts.