AEM TASK - 5

1. Create 5 Unique News Article Pages Under `/content/us/en/news`

- Each news article should be unique and should use the **News Component**.

Steps:

1. Go to **AEM Sites Console** (`/sites.html`).
2. Navigate to `/content/us/en/news`.
3. **Create 5 new pages** using the **News Room Template**.
4. **Set Content for Each Page**:
    a. Use the **News Component** to provide:
        i. **Title**
        ii. **News Details**
        iii. **Published Date**
    b. Example pages:
        i. `latest-tech-innovation.html` → *Latest advancements in AI*
        ii. `sports-highlights.html` → *Major football match updates*
        iii. `business-trends.html` → *Current market trends*
        iv. `entertainment-news.html` → *Movie releases and celebrity updates*
        v. `health-wellness.html` → *Tips on mental and physical health*

2. Create a Header Experience Fragment (XF)

- The header should include a **menu with "News", "Contact Us", and "About Me" pages**.

Steps:

1. Go to **AEM Experience Fragments (`/content/experience-fragments`)**.

2. Create a **new XF called header**.
3. Add a **Navigation Component** and configure it:
    a. **News** → `/content/us/en/news`
    b. **Contact Us** → `/content/us/en/contact`
    c. **About Me** → `/content/us/en/about`
4. Use this **XF in the News Pages as a Header**.

3. Create "About Me" and "Contact Us" Pages

- **About Me Page:**
    - Use **Teaser, Image, Text, and Title Components**.
    - Provide details about the journalist.
- **Contact Us Page:**
    - Use **Text Components** to show:
        - **Mobile Number**
        - **Office Address**
        - **Email Address**

4. Create a Footer Experience Fragment (XF)

- The footer should have **4 sections**:
    - **News Menu Section** → Use **List Component** to show 4 news articles.
    - **About Me Section** → Use **Text Component** to add a brief description.
    - **Contact Us Section** → Use **Text Component** to show contact details.
    - **Social Media Section** → Use **List Component** to add links to social media profiles.

Steps:

1. Navigate to **AEM Experience Fragments (`/content/experience-fragments`)**.
2. Create a **new XF called `footer`**.
3. Add **4 sections** using components as described above.
4. Use this XF in the **News Pages as a Footer**.

5. Create a Custom Service to Print "Hello World"

- The service should be called from the **News Component's Sling Model** and log the value.

Steps:

1. **Create an OSGi Service (`HelloWorldService.java`)**

```
package com.myproject.core.services;

import org.osgi.service.component.annotations.Component;
import org.osgi.service.component.annotations.ServiceScope;

@Component(service = HelloWorldService.class, scope =
ServiceScope.SINGLETON)
public class HelloWorldService {
    public String getMessage() {
        return "Hello World from AEM Service!";
    }
}
```

2. **Inject the Service in the Sling Model of the News Component**

```
package com.myproject.core.models;

import com.myproject.core.services.HelloWorldService;
import org.apache.sling.api.resource.Resource;
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;
```

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

    private static final Logger LOG =
LoggerFactory.getLogger(NewsModel.class);

    @OSGiService
    private HelloWorldService helloWorldService;

    @Self
    private Resource resource;

    public String getNewsMessage() {
        String message = helloWorldService.getMessage();
        LOG.info("News Component Message: {}", message);
        return message;
    }
}
```

6. Create Custom Configurations for a 3rd Party API

- The configuration should allow us to **fetch JSON data** and log it.

Steps:

1. **Create an OSGi Configuration (`ThirdPartyApiConfig.java`)**

```
package com.myproject.core.config;

import org.osgi.service.metatype.annotations.AttributeDefinition;
import org.osgi.service.metatype.annotations.ObjectClassDefinition;

@ObjectClassDefinition(name = "Third Party API Configuration")
public @interface ThirdPartyApiConfig {
```

```
    @AttributeDefinition(name = "API Endpoint", description = "Provide
the third-party API URL")
    String apiUrl() default
"https://jsonplaceholder.typicode.com/posts";
}
```

2. **Create a Service to Fetch Data (`ThirdPartyApiService.java`)**

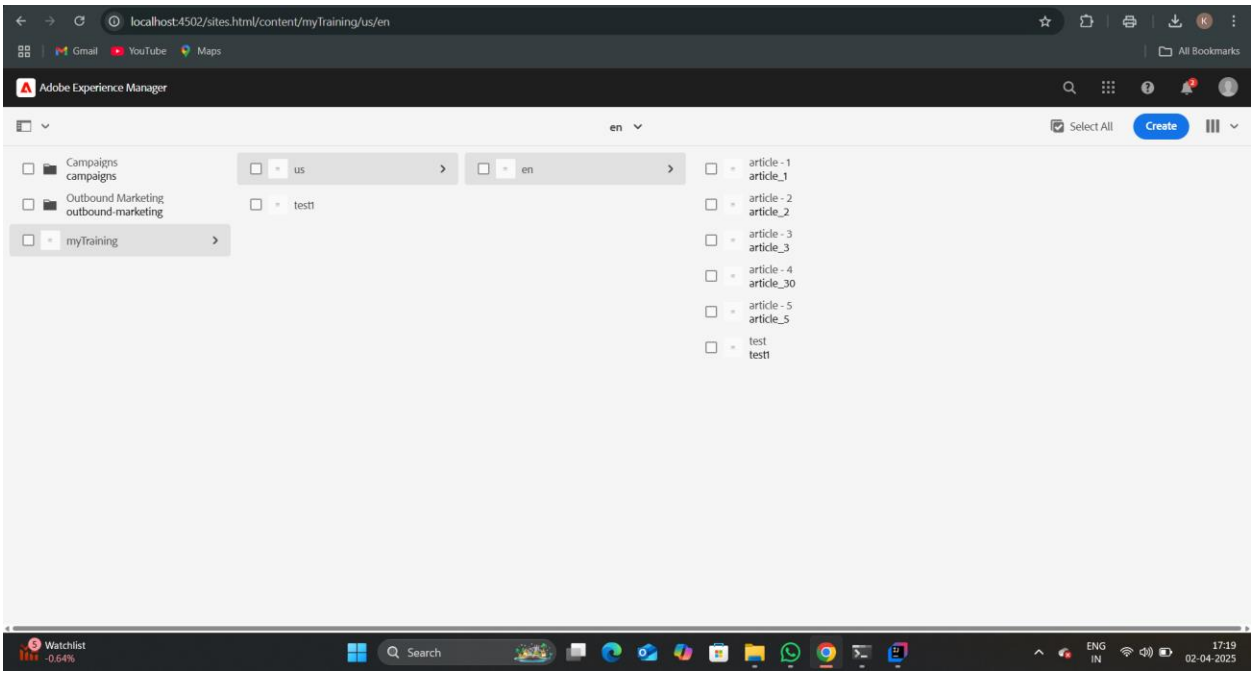
```
package com.myproject.core.services;

import com.myproject.core.config.ThirdPartyApiConfig;
import org.apache.http.client.fluent.Request;
import org.apache.http.client.fluent.Response;
import org.apache.http.entity.ContentType;
import org.osgi.service.component.annotations.Activate;
import org.osgi.service.component.annotations.Component;
import org.osgi.service.component.annotations.Modified;
import org.osgi.service.component.annotations.Reference;
import org.osgi.service.metatype.annotations.Designate;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

@Component(service = ThirdPartyApiService.class, immediate = true)
@Designate(ocd = ThirdPartyApiConfig.class)
public class ThirdPartyApiService {

    private static final Logger LOG =
LoggerFactory.getLogger(ThirdPartyApiService.class);

    private String apiUrl;

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

    public String fetchApiData() {
        try {
```

```
            Response response = Request.Get(apiUrl)
                .addHeader("Content-Type",
ContentType.APPLICATION_JSON.getMimeType())
                .execute();

            String responseData = response.returnContent().asString();
            LOG.info("API Response: {}", responseData);
            return responseData;
        } catch (Exception e) {
            LOG.error("Error fetching API data", e);
            return null;
        }
    }
}
```

3. **Call This Service in the News Component's Sling Model**

```
@OSGiService
private ThirdPartyApiService thirdPartyApiService;

public String getApiData() {
    String apiData = thirdPartyApiService.fetchApiData();
    LOG.info("News Component API Data: {}", apiData);
    return apiData;}
```

OUTPUT SCREENSHOTS:


localhost:4502/sites.html/content/myTraining/us/en
Gmail
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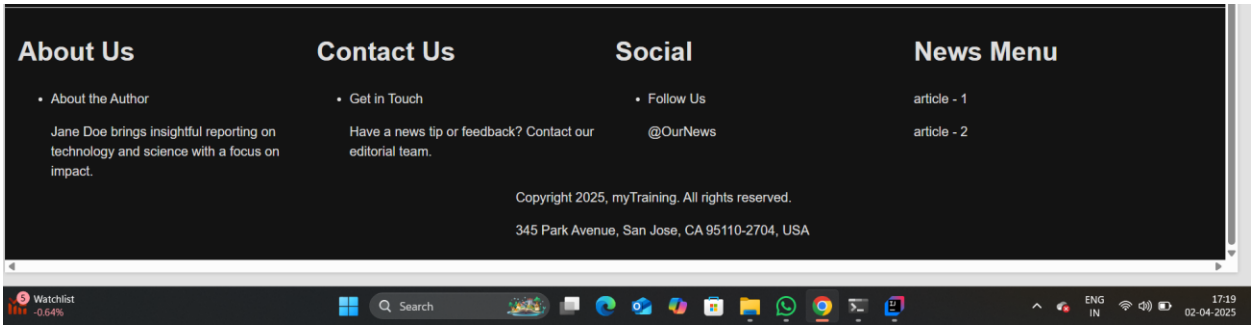
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Hello World Component

AEM 6.5 Latest Update Released

Adobe has announced the latest update for AEM 6.5, featuring improved content fragment enhancements, better cloud service integration, and performance optimizations.

March 20, 2025

Source: Adobe Official Blog

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ARTICLE - 2

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article - 2

Lumel Achieves Milestone in Data Visualization

Lumel has launched a new feature-rich data visualization tool, providing enhanced analytics capabilities for businesses using Power BI and PostgreSQL.

March 18, 2025

Source: Lumel Website

Hello World from AEM Service!

About Us Contact Us Social News Menu

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