AEM Task – 7: AEM Servlets and Page Management

Created SampleServlet (Using resourceType)

- Developed a servlet using SlingAllMethodsServlet and registered it with resourceType.
- The servlet was designed to handle both GET and POST requests.
- It processed user inputs and returned appropriate responses based on the requested resource.
- Deployment was completed, and the servlet's registration was verified in the **AEM Web Console**.

```
roject ✓ ② ○ X ; — S header.scss ☑ SimpleSchedudedTask.java ② Runnable.java ② SimpleScheduder.java ③ SimpleSchedu
```

Created CreatePageServlet (Using Path)

- Developed a servlet using SlingSafeMethodsServlet and registered it with a specific path (/bin/createPage).
- It handled requests to dynamically create pages in AEM based on user input.
- The servlet received the page name, validated its uniqueness, and created the page within a predefined content structure.
- The PageManager API was utilized to perform the page creation.
- The servlet was successfully deployed, tested, and verified.

Accepted User Input for Page Creation

- The servlet was configured to accept a page name from the user.
- A validation process was implemented to ensure duplicate pages were not created.
- Once validated, the **PageManager API** was used to dynamically create the new page.
- After execution, a confirmation message was logged and displayed.

Managed Pages Using PageManager API

- The PageManager API was used to create, retrieve, modify, and delete AEM pages.
- Appropriate permissions were configured to enable the servlet to perform these operations.

 Functional testing was carried out to verify the successful execution of page-related tasks.

```
v 🗀 main

✓ 

    com.myTraining.core

       > 🖹 config
       > @ filters
       > @ listeners
       > @ models
       > @ services

✓ 
    servlets

            CreatePageServlet
                                                                    PageManager pageManager = resourceResolver.adaptTo(PageManager.c
              PageManagerServlet
            PageSearchServlet
                                                                    if (pageManager == null || pageName == null || pageName.isEmpty()
            @ PageSQLindexSearchServlet
            SimpleServlet
            SimpleServletByPath
       > 🖹 workflow
```

Created SearchServlet for Content Search

- Developed and registered a servlet at /bin/search to enable content search functionality.
- Integrated the Query Builder API using PredicateMap to execute structured queries.
- Configured the search functionality with parameters such as:
 - Path filtering to restrict searches to /content/my-site.
 - Page type filtering to search only within cq:Page nodes.
 - Full-text search to retrieve relevant content based on user input.
- The servlet was deployed, tested, and verified to return accurate search results.