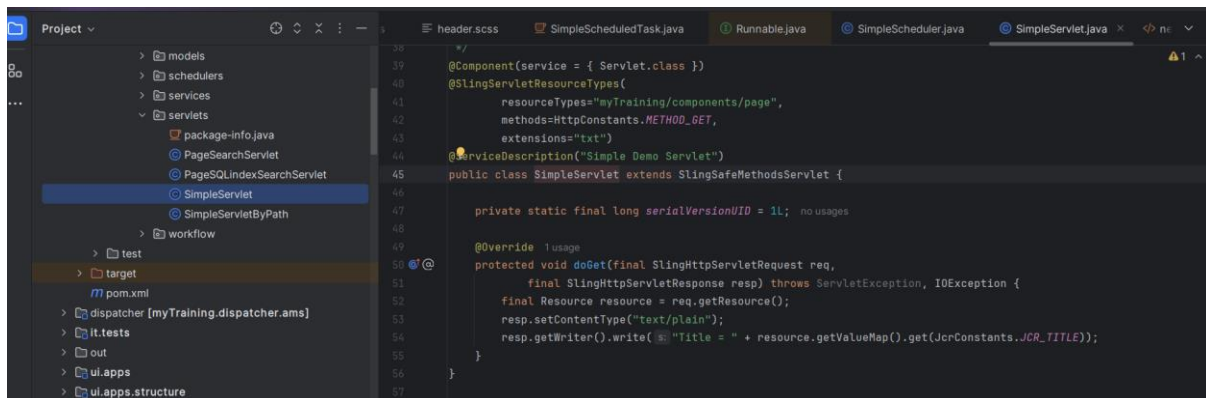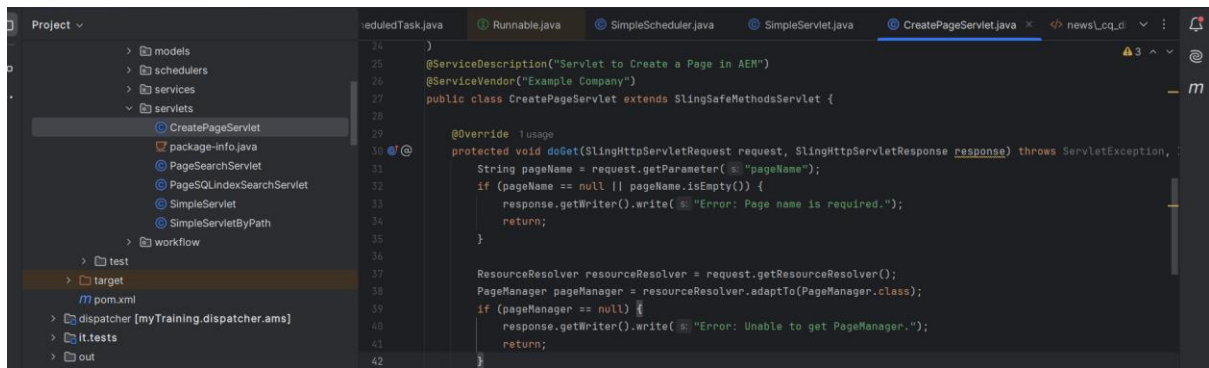# AEM TASK – 7

AEM Servlets and Page Management

Created SampleServlet (Using resourceType)

- A servlet was created using SlingAllMethodsServlet and registered using **resourceType**.

- It was designed to handle both GET and POST requests.

- The servlet processed user inputs and returned appropriate responses based on the requested resource.

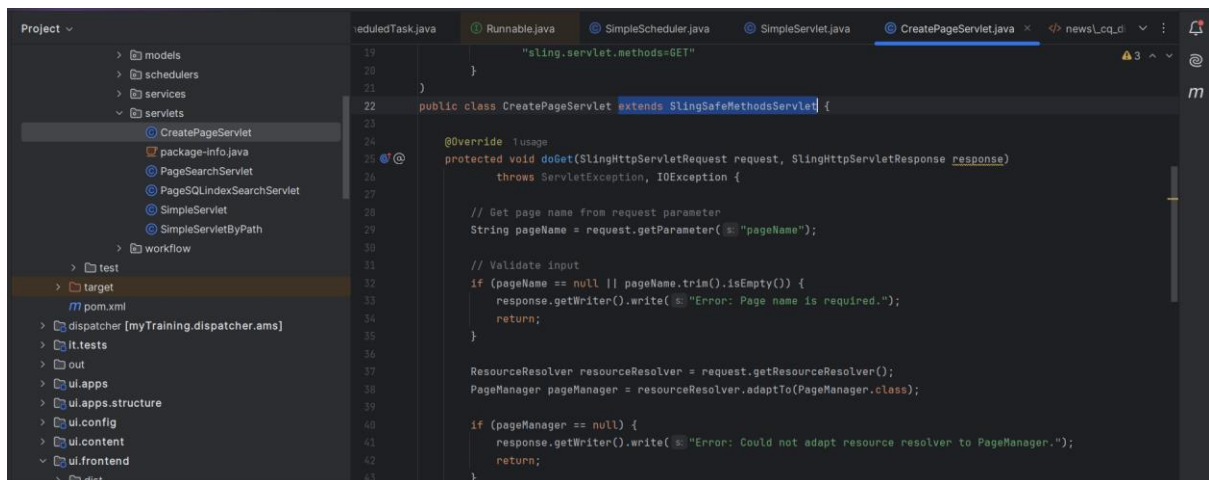- Deployment was completed, and its registration was verified in the AEM Web Console.

Created CreatePageServlet (Using Path)

- A servlet was created using SlingSafeMethodsServlet and registered with a specific path (/bin/createPage).

- It handled requests to create pages dynamically in AEM based on user input.

- The servlet received the page name, validated its uniqueness, and created the page under a predefined content structure.

- The **PageManager API** was used to perform the page creation operation.

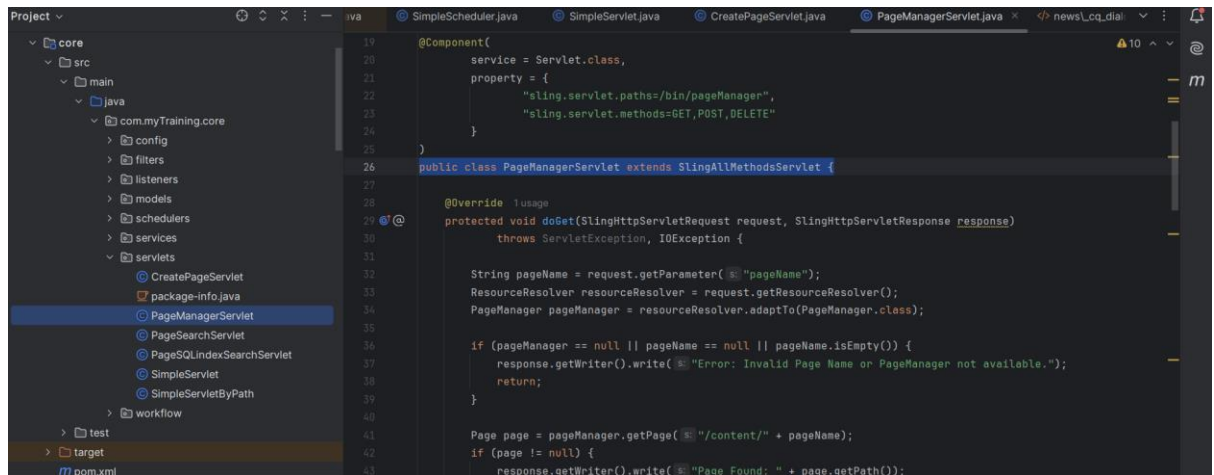- The servlet was successfully deployed, tested, and verified.

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 create the new page dynamically.

- After execution, a confirmation message was logged and displayed.

-

Managed Pages Using PageManager API

- The **PageManager API** was utilized to create, retrieve, modify, and delete AEM pages.

- Proper permissions were configured to allow the servlet to perform these operations.

- Functional testing was conducted to confirm successful execution of page-related operations.

Created SearchServlet for Content Search

- A servlet was developed and registered at /bin/search to enable content search.

- The **Query Builder API** was integrated using **PredicateMap** to execute structured queries.

- The search functionality was configured 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** for retrieving relevant content based on the user's input.

- The servlet was deployed, tested, and verified to return accurate search results.