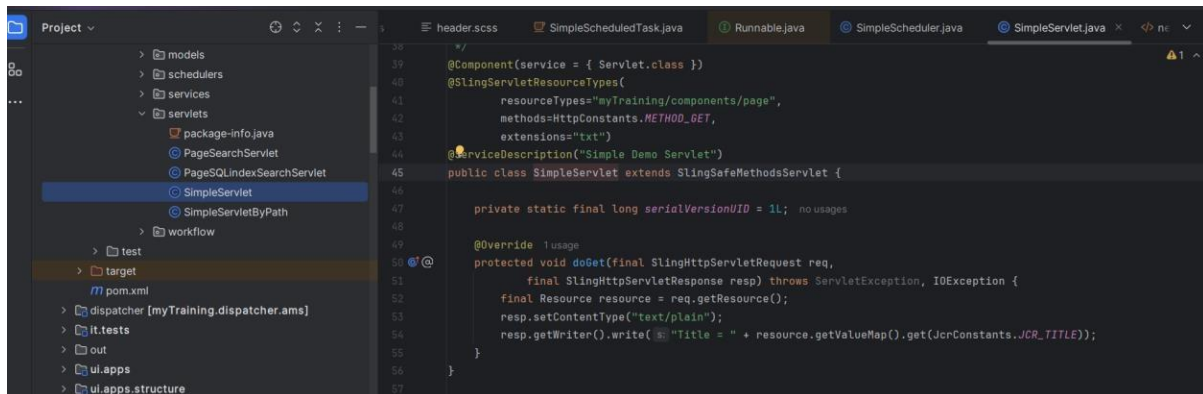


AEM TASK – 7 (Pademsh G)

AEM Servlets and Page Management

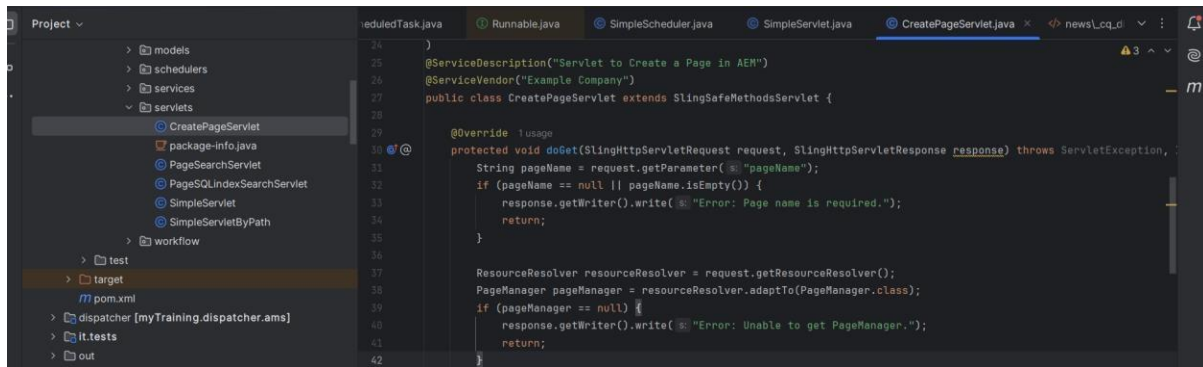
1. Created SampleServlet (Using resourceType)

- A servlet was implemented using the SlingAllMethodsServlet class and registered via a specific resourceType.
- It was configured to handle both GET and POST HTTP methods.
- The servlet processed user inputs and generated appropriate responses based on the requested resource.
- Deployment was completed, and its registration was verified in the AEM Web Console.



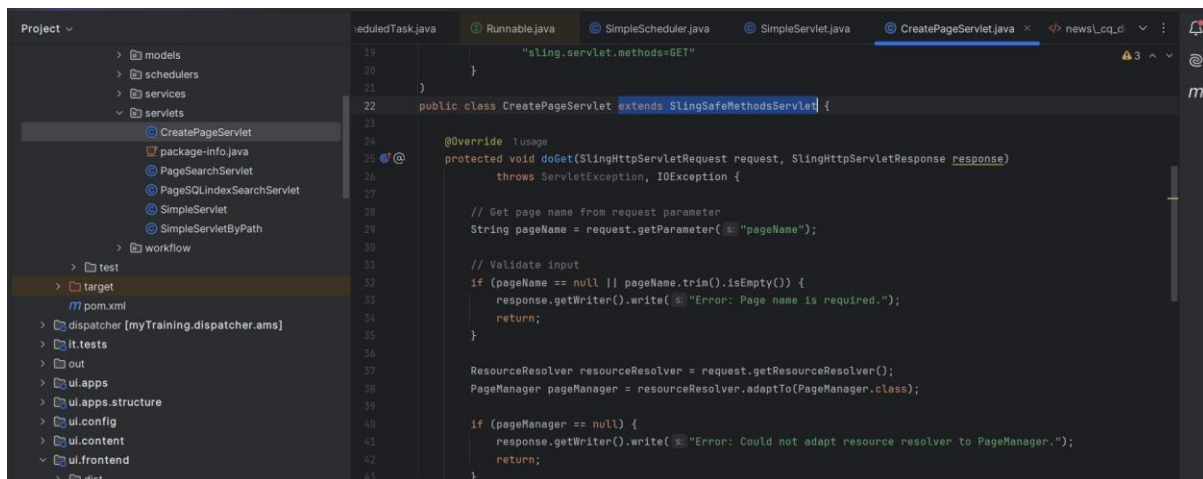
2. Created CreatePageServlet (Using Path)

- 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.



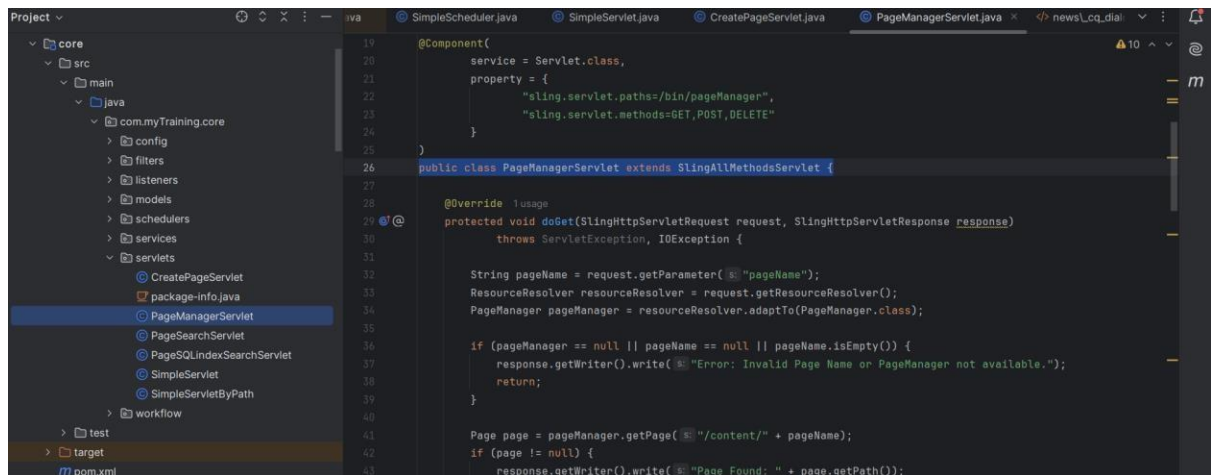
3. Accepted User Input for Page Creation

- 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.



4. 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.



5. 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.

