

AEM TASK – 7

AEM Servlets and Page Management

Created SampleServlet (Using resourceType)

- Developed a servlet using SlingAllMethodsServlet, registered via resourceType.
- Configured to support both GET and POST request methods.
- Designed to handle user inputs and return responses based on the requested resource.
- Successfully deployed and validated in the AEM Web Console.

Created CreatePageServlet (Using Path)

- Implemented a servlet using SlingSafeMethodsServlet, mapped to the path `/bin/createPage`.
- Allowed dynamic page creation in AEM through user input.
- Took the page name, checked for duplication, and generated the page under a specific content path.
- Utilized PageManager API for the page creation process.
- Successfully deployed, tested, and confirmed to be functional.

Accepted User Input for Page Creation

- Configured the servlet to receive a page name from the user.
- Included validation logic to prevent duplicate page entries.
- Leveraged PageManager API to dynamically generate the page after validation.
- Displayed and logged a confirmation message upon successful creation.

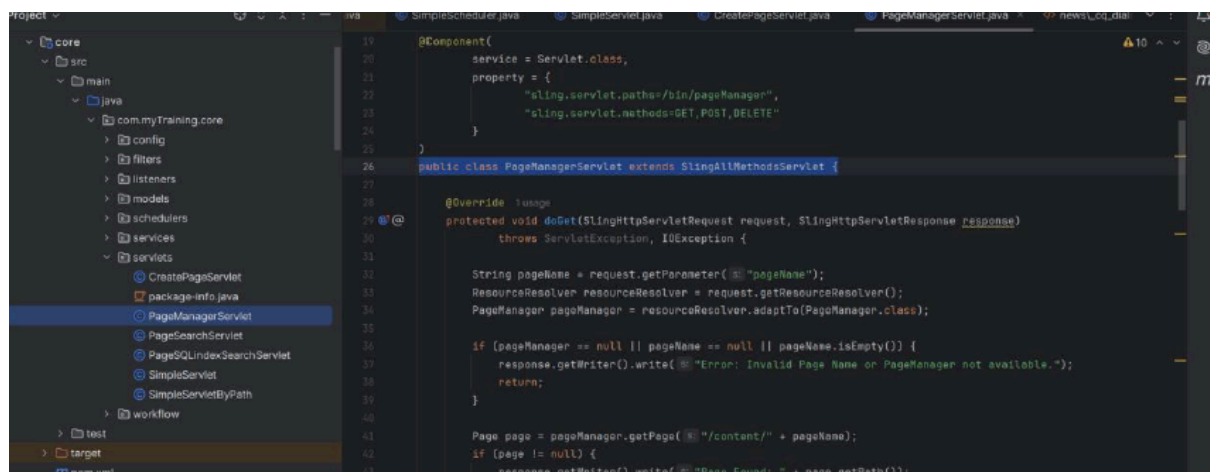
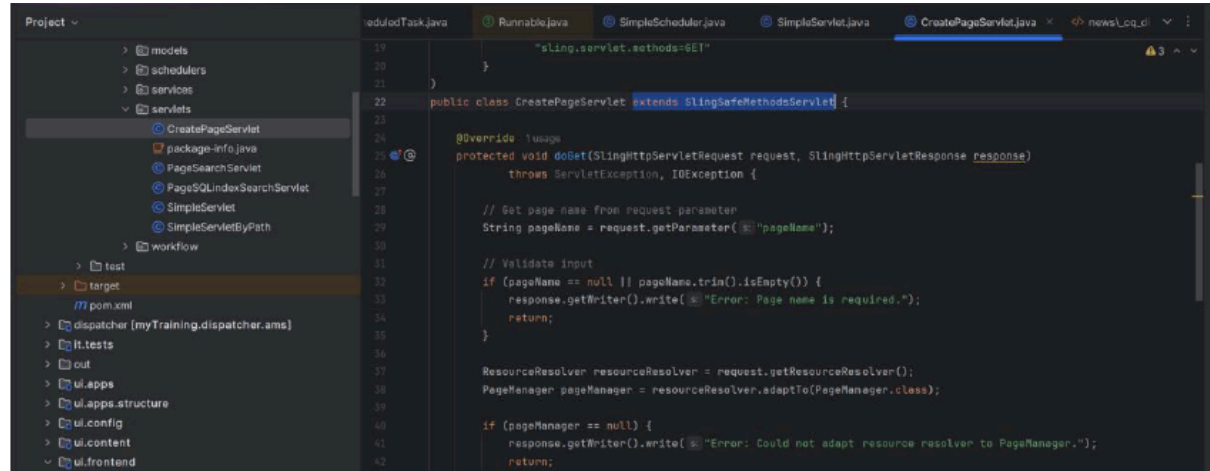
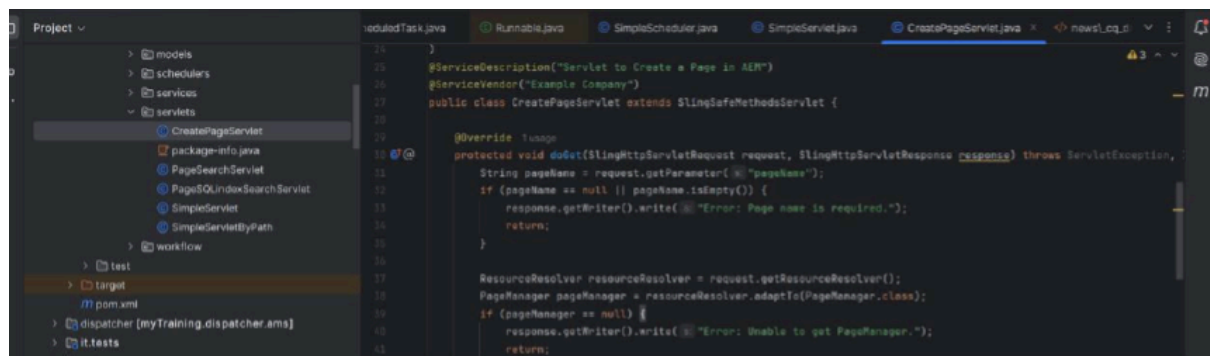
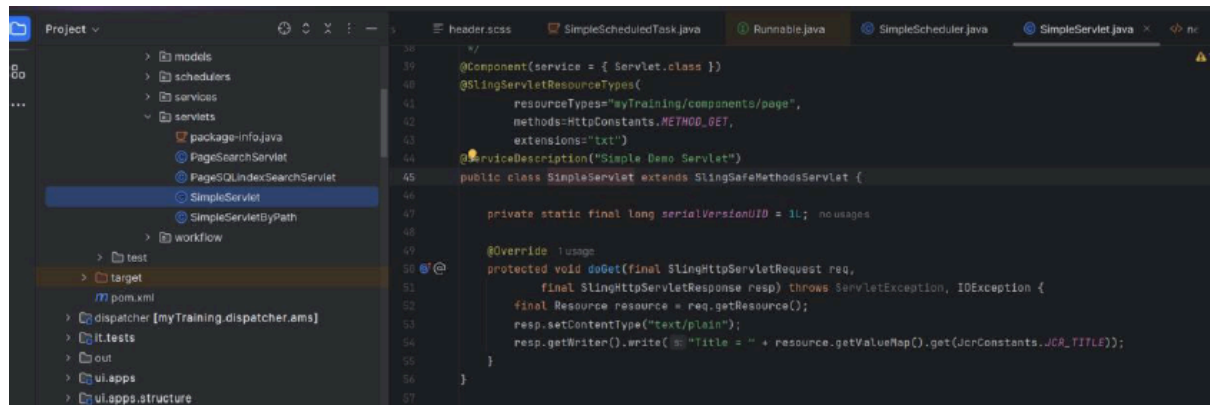
Managed Pages Using PageManager API

- Employed the PageManager API to create, access, update, and delete pages in AEM.
- Ensured proper permission settings for the servlet to perform these tasks.
- Conducted testing to verify the effectiveness of the page operations.

Created SearchServlet for Content Search

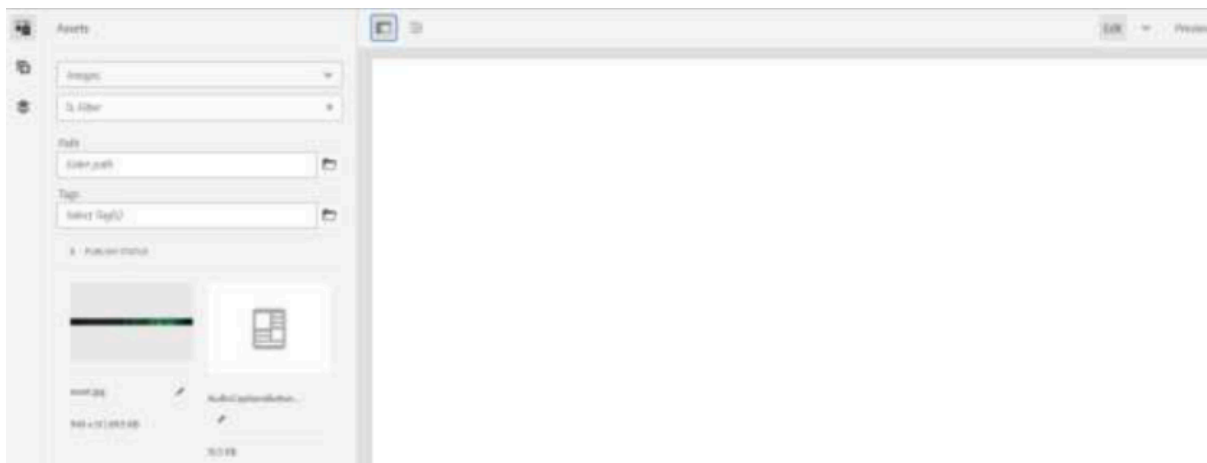
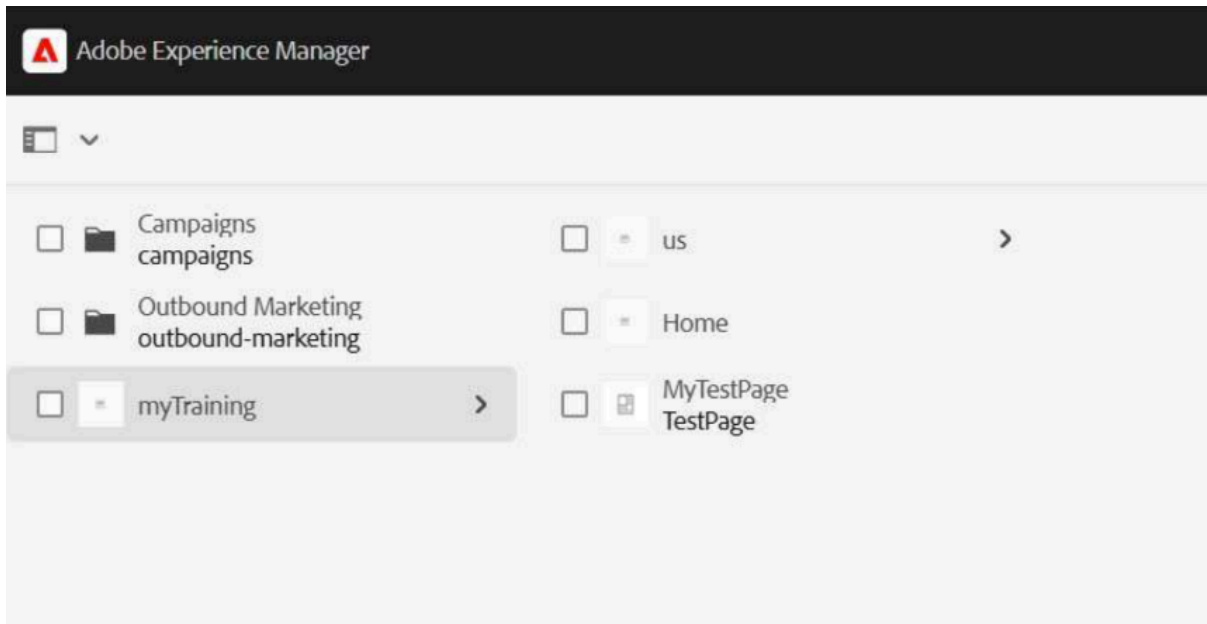
- Built and registered a servlet at `/bin/search` to enable content search.
- Integrated Query Builder API with PredicateMap for executing structured queries.
- Implemented search filters including:
 - o Restricting the search scope to `/content/my-site`.
 - o Limiting results to cq:Page node types.
 - o Enabling full-text search for relevant user-input-based results.
- Successfully deployed and validated the servlet for accurate search output.

Screen Shots



```
30 public class PageSearchServlet extends SlingAllMethodsServlet {
31     @protected void doGet(SlingHttpServletRequest request, SlingHttpServletResponse response) throws ServletException,
32         IOException {
33         response.setContentType("application/json");
34         response.setCharacterEncoding("UTF-8");
35
36         String searchText = request.getParameter("searchText");
37         String searchPath = request.getParameter("searchPath");
38         JSONObject jsonResponse = new JSONObject();
39         JSONArray resultsArray = new JSONArray();
40
41         if (StringUtils.isBlank(searchText)) {
42             try {
43                 jsonResponse.put("error", "Missing searchText parameter");
44             } catch (JSONException e) {
45                 throw new RuntimeException(e);
46             }
47             response.getWriter().write(jsonResponse.toString());
48             return;
49         }
50
51         Session session = request.getResourceResolver().adaptTo(Session.class);
52         if (session == null) {
53             try {
54
55             }
56         }
57     }
58 }
59
60
```

```
{ "message": "Page created successfully: /content/myTraining/TestPage" }
```



Pretty-print ☒

```
{
  "results": [
    {
      "path": "/content/myTraining/us"
    },
    {
      "path": "/content/myTraining/Home"
    },
    {
      "path": "/content/myTraining/us/en"
    }
  ]
}
```

Workflow Instances									
Running workflows: 2 • Status: Healthy									
	STATUS	INITIATOR	START TIME	MODEL	PAYLOAD	COMMENT	TITLE	VERSION	
<input type="checkbox"/>	RUNNING	admin	3/26/15, 2:33 PM	My custom Workflow	/content/myTraining/us/en		page creation	1.3	