26/03/2025 - TASKS

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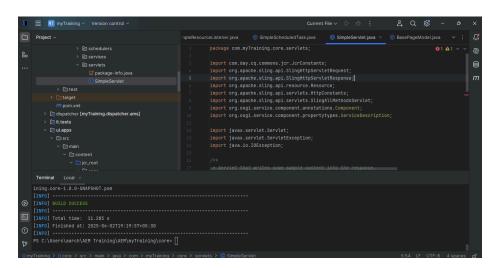
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1. Create SampleServlet

- Create a servlet that responds with a JSON message.
- Register the servlet using resourceType.

Implementation

- Extend SlingAllMethodsServlet.
- 2. Use @SlingServletResourceTypes annotation to register the servlet.
- 3. Handle GET requests and return a JSON response.



```
@Designate(ocd = SampleServlet.Config.class)
@SlingServletResourceTypes(resourceTypes = "myTraining/components/sample", methods =
{"GET"}, extensions = "json")
public class SampleServlet extends SlingAllMethodsServlet {
    @Override
    protected void doGet(SlingHttpServletRequest request, SlingHttpServletResponse response)
throws ServletException, IOException {
    response.setContentType("application/json");
    response.getWriter().write("{\"message\": \"Hello from SampleServlet!\"}");
}}
```

2. Create CreatePageServlet

Objective

- Create a servlet to generate new pages dynamically in AEM.
- Register the servlet using a path-based approach.

Implementation

- Extend SlingSafeMethodsServlet.
- 2. Use @SlingServletPaths to define a unique servlet path.
- 3. Accept a page name from the user and create a new page in AEM.

```
Page newPage = pageManager.create("/content/us/en", pageName,
"/apps/wknd/components/page", pageName);
              response.getWriter().write("Page created successfully: " + newPage.getPath());
          }
       } catch (Exception e) {
           response.getWriter().write("Error: " + e.getMessage());
   }
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     myTraining ~
 Project ∨
                                                                                          © SimpleServlet.java © CreatePageServlet.java ×
                                                                   SimpleScheduledTask.java
 80
        ∨ 🖺 core

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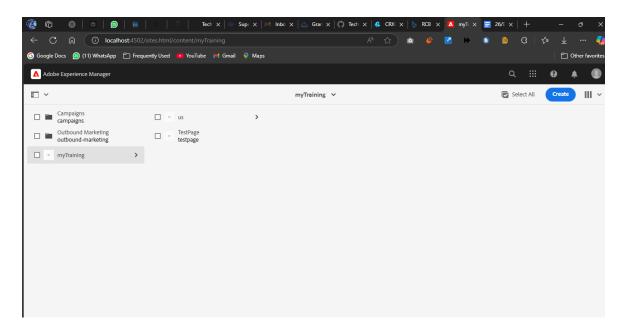
                                                          public class CreatePageServlet extends SlingAllMethodsServlet {
                 > ■ services

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iii servlets

      Terminal Local ×
     [INFO] --- frontend:1.12.0:install-node-and-npm (install node and npm) @ myTraining.ui.frontend ---
     [INFO] --- frontend:1.12.0:npm (npm ci) @ myTraining.ui.frontend ---
[INFO] Running 'npm ci' in C:\Users\aarch\AEM Training\AEM\myTraining\ui.frontend
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```

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

Page Created Succesfully:



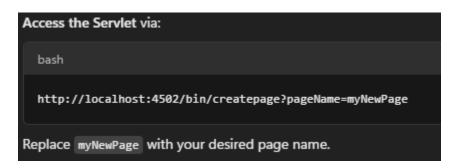
3. Create Pages in AEM via User Input

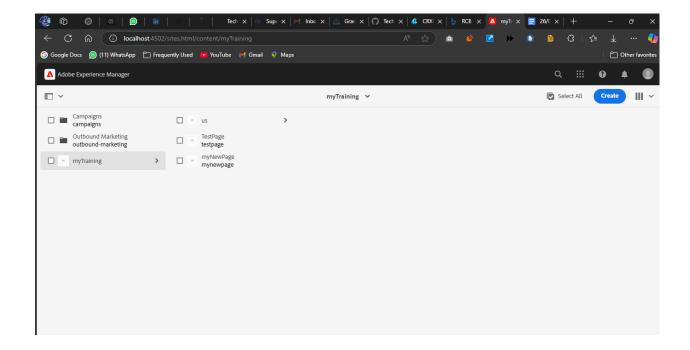
Objective

• Allow users to specify a page name and dynamically generate pages.

Steps

- 1. The servlet reads the pageName from the request parameter.
- 2. Uses the PageManager API to create a new page inside /content/us/en.
- Returns success or error messages as responses.





4. Implement SearchServlet Using PredicateMap

Objective

- Implement a search functionality in AEM.
- Use QueryBuilder API and PredicateMap to filter results.

Implementation

- Extend SlingSafeMethodsServlet.
- 2. Use @SlingServletPaths to define the endpoint /bin/searchcontent.
- 3. Construct a PredicateMap with search criteria.
- 4. Fetch search results and return matching page paths.

Search Results:

