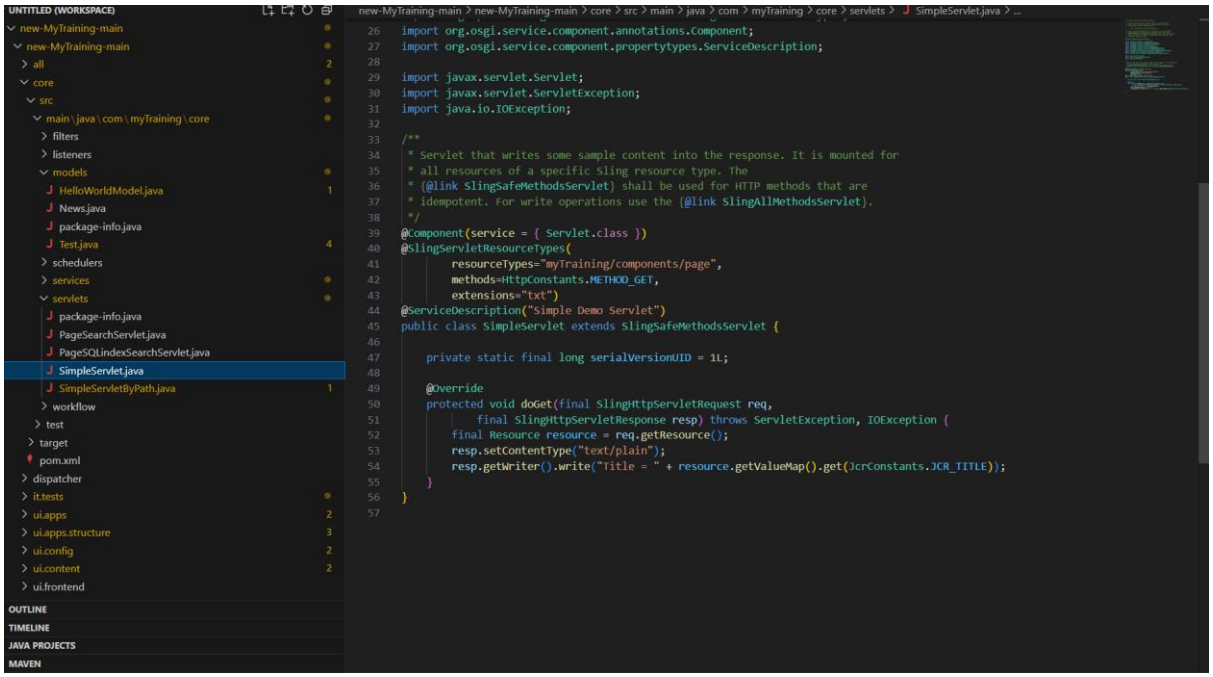
DAY_7_TASK_AEM

-26/3/25

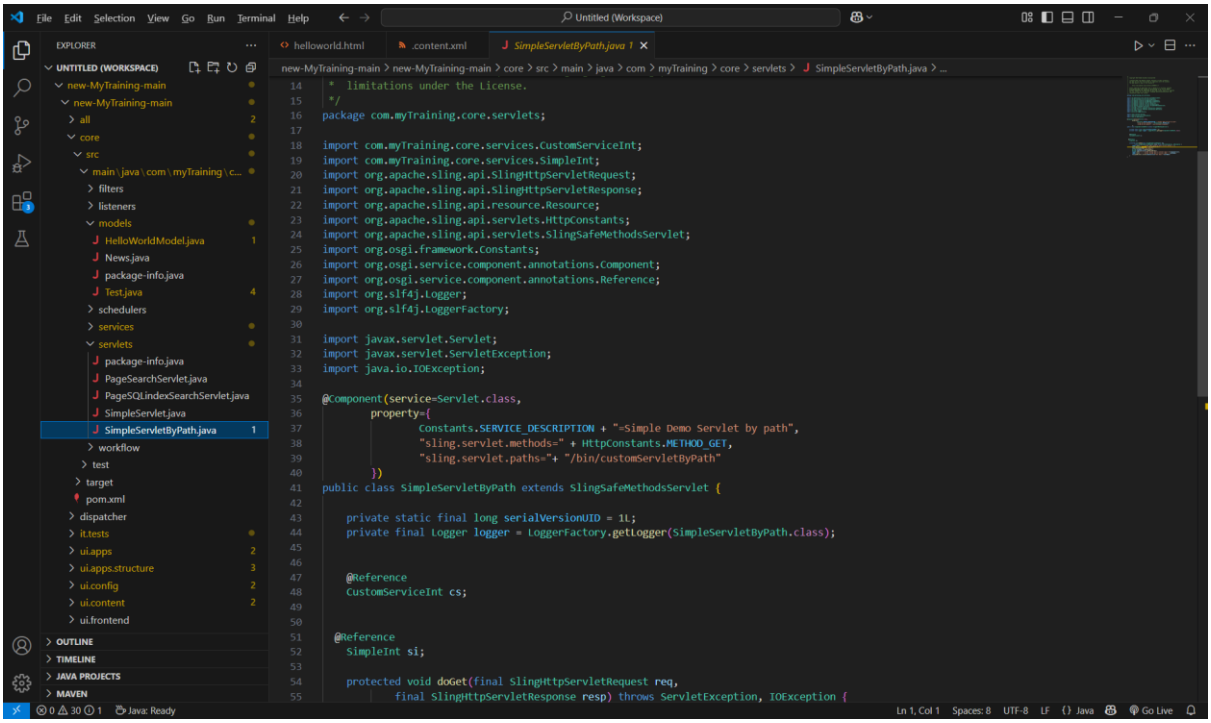
1.Creating SampleServlet (Extending SlingAllMethodsServlet)

This servlet handles both GET and POST requests and is registered using a resourceType. Implementation Steps: 1. Extend the SlingAllMethodsServlet class. 2. Register it using @SlingServletResourceTypes. 3. Implement request handling logic.



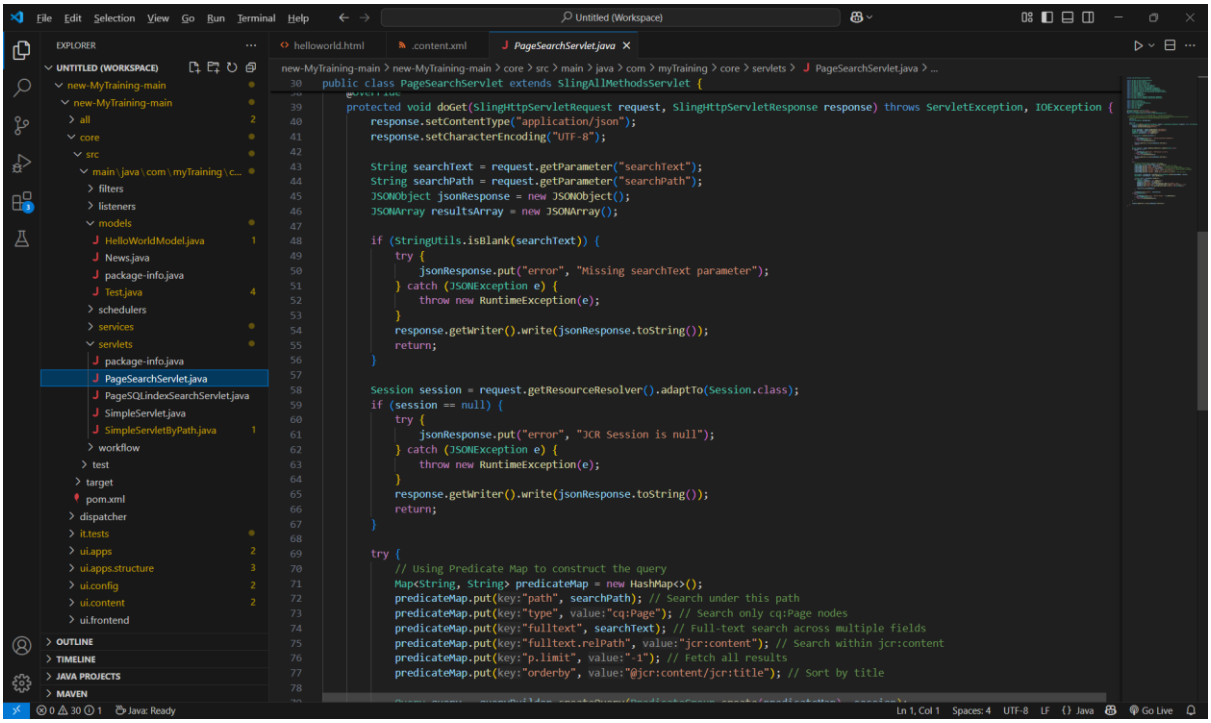
Creating CreatePageServlet (Extending SlingSafeMethodsServlet)

- A servlet was developed using SlingSafeMethodsServlet and configured to handle requests at the designated path /bin/createPage.
- Its primary function was to dynamically create pages in AEM based on user-provided input.
- The servlet processed the page name, ensuring its uniqueness, and created the page within a predefined content hierarchy.
- Page creation tasks were carried out using the PageManager API.
- After development, the servlet was successfully deployed, thoroughly tested, and verified for functionality.



Creating SearchServlet Using PredicateMap for Content Search :

- A servlet was created and registered at the path /bin/search to facilitate content search functionality.
- The Query Builder API was incorporated with a PredicateMap to execute structured and efficient queries.
- The search feature was configured with specific parameters, including:
    - Path filtering to limit the scope of searches to /content/my-site.
    - Filtering by page type to restrict results to cq:Page nodes.
    - Full-text search capability to retrieve relevant content based on user input.
- Following development, the servlet was successfully deployed, tested, and verified to provide accurate and reliable search results.


File Edit Selection View Go Run Terminal Help
Untitled (Workspace)
EXPLORER
UNTITLED (WORKSPACE)
new-MyTraining-main
new-MyTraining-main
all
core
src
main\java\com\myTraining\c...
filters
listeners
models
HelloWorldModel.java
News.java
package-info.java
Test.java
schedulers
services
servlets
package-info.java
PageSearchServlet.java
PageSQLindexSearchServlet.java
SimpleServlet.java
SimpleServletByPath.java
workflow
test
target
pom.xml
dispatcher
it.tests
ui.apps
ui.apps.structure
ui.config
ui.content
ui.frontend
OUTLINE
TIMELINE
JAVA PROJECTS
MAVEN
helloworld.html
.content.xml
PageSearchServlet.java
new-MyTraining-main > new-MyTraining-main > core > src > main > java > com > myTraining > core > servlets > PageSearchServlet.java > ...
public class PageSearchServlet extends SlingAllMethodsServlet {
protected void doGet(SlingHttpServletRequest request, SlingHttpServletResponse response) throws ServletException, IOException {
response.setContentType("application/json");
response.setCharacterEncoding("UTF-8");
String searchText = request.getParameter("searchText");
String searchPath = request.getParameter("searchPath");
JSONObject jsonResponse = new JSONObject();
JSONArray resultsArray = new JSONArray();
if (StringUtils.isBlank(searchText)) {
try {
jsonResponse.put("error", "Missing searchText parameter");
} catch (JSONException e) {
throw new RuntimeException(e);
}
response.getWriter().write(jsonResponse.toString());
return;
}
Session session = request.getResourceResolver().adaptTo(Session.class);
if (session == null) {
try {
jsonResponse.put("error", "JCR Session is null");
} catch (JSONException e) {
throw new RuntimeException(e);
}
response.getWriter().write(jsonResponse.toString());
return;
}
try {
// Using Predicate Map to construct the query
Map<String, String> predicateMap = new HashMap<>();
predicateMap.put(key:"path", searchPath); // Search under this path
predicateMap.put(key:"type", value:"cq:Page"); // Search only cq:Page nodes
predicateMap.put(key:"fulltext", searchText); // Full-text search across multiple fields
predicateMap.put(key:"fulltext.relPath", value:"jcr:content"); // Search within jcr:content
predicateMap.put(key:"p.limit", value:"-1"); // Fetch all results
predicateMap.put(key:"orderby", value:"@jcr:content/jcr:title"); // Sort by title
Java: Ready
Ln 1, Col 1
Spaces: 4
UTF-8
LF
Java
Go Live