

AEM Training - Day 7 Assignment (26-03-2025)

1. Create SampleServlet Extending SlingAllMethodsServlet:

Create an AEM servlet that is registered using resourceType. This servlet will handle HTTP GET requests and log the execution.

Code Snippet (SampleServlet.java):

```
@Component(service = Servlet.class, property = {
    "sling.servlet.resourceTypes=myapp/components/page",
    "sling.servlet.methods=GET"
})

public class SampleServlet extends SlingAllMethodsServlet {    private static
final Logger LOG = LoggerFactory.getLogger(SampleServlet.class);

    @Override    protected void doGet(SlingHttpServletRequest request,
SlingHttpServletResponse response)
throws ServletException, IOException {        response.getWriter().write("Sample
Servlet Executed");

        LOG.info("Sample Servlet Executed");
    } }
```

2. Create CreatePageServlet Extending SlingSafeMethodsServlet:

This servlet is registered using a specific path and is designed to create pages based on user input.

Code Snippet (CreatePageServlet.java):

```
@Component(service = Servlet.class, property = {
    "sling.servlet.paths=/bin/createPage",
    "sling.servlet.methods=POST"
})

public class CreatePageServlet extends SlingSafeMethodsServlet {
```

```

    @Reference    private ResourceResolverFactory
resolverFactory;    @Override

    protected void doPost(SlingHttpServletRequest request, SlingHttpServletResponse response)
throws ServletException, IOException {

        String pageName = request.getParameter("pageName");    try (ResourceResolver resolver
= resolverFactory.getServiceResourceResolver(null)) {        PageManager pageManager =
resolver.adaptTo(PageManager.class);        if (pageManager != null) {

            Page newPage = pageManager.create("/content/mysite", pageName,
"/apps/myapp/templates/page", pageName);

            resolver.commit();        response.getWriter().write("Page created successfully:
" + newPage.getPath());

        } else {

            response.getWriter().write("PageManager is null");

        }

    } catch (PersistenceException e) {        response.getWriter().write("Page
creation failed: " + e.getMessage());

    }

}
}

```

3. Use PageManager API to Create Pages:

This servlet demonstrates how to dynamically create pages using the PageManager API.

Steps:

1. Retrieve the PageManager instance from the ResourceResolver.
2. Call the create() method, passing the parent path, page name, template path, and title.
3. Commit the changes using resolver.commit().

Code Snippet:

```

PageManager pageManager = resolver.adaptTo(PageManager.class); if
(pageManager != null) {
    Page newPage = pageManager.create("/content/mysite", pageName,
"/apps/myapp/templates/page", pageName);
    resolver.commit();
}

```

4. Create SearchServlet Using PredicateMap:

This AEM servlet allows you to search for content using the QueryBuilder API and a PredicateMap.

Code Snippet (SearchServlet.java):

```

@Component(service = Servlet.class, property = {
    "sling.servlet.paths=/bin/searchContent",
    "sling.servlet.methods=GET"
})

public class SearchServlet extends SlingSafeMethodsServlet {

    @Reference    private
    QueryBuilder queryBuilder;

    @Override

    protected void doGet(SlingHttpServletRequest request, SlingHttpServletResponse response)
    throws ServletException, IOException {

        Map<String, String> map = new HashMap<>();

        map.put("path", "/content/mysite");    map.put("type",
"cq:Page");    map.put("p.limit",
"-1");

        Query query = queryBuilder.createQuery(PredicateGroup.create(map),
request.getResourceResolver().adaptTo(Session.class));    SearchResult result =

```

```

query.getResult();    for (Hit hit : result.getHits()) {

response.getWriter().write(hit.getPath() + "\n");

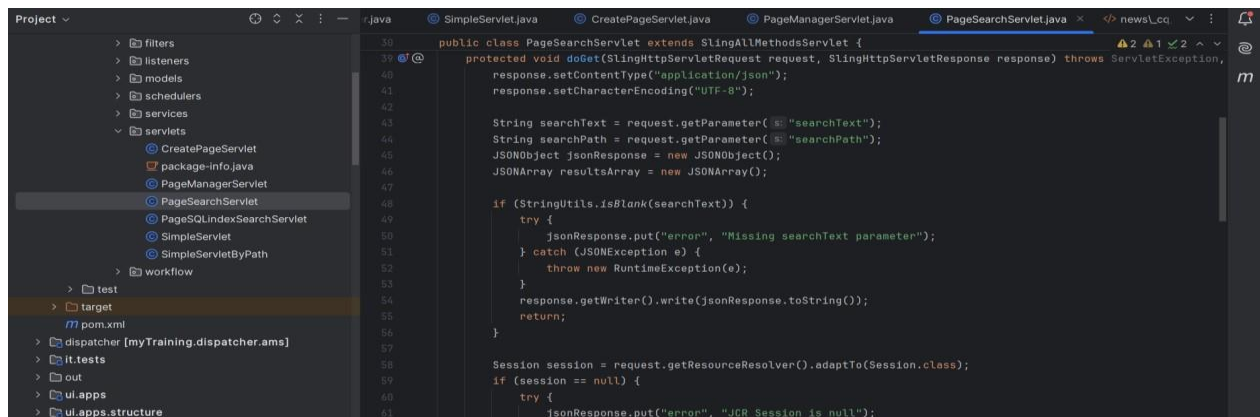
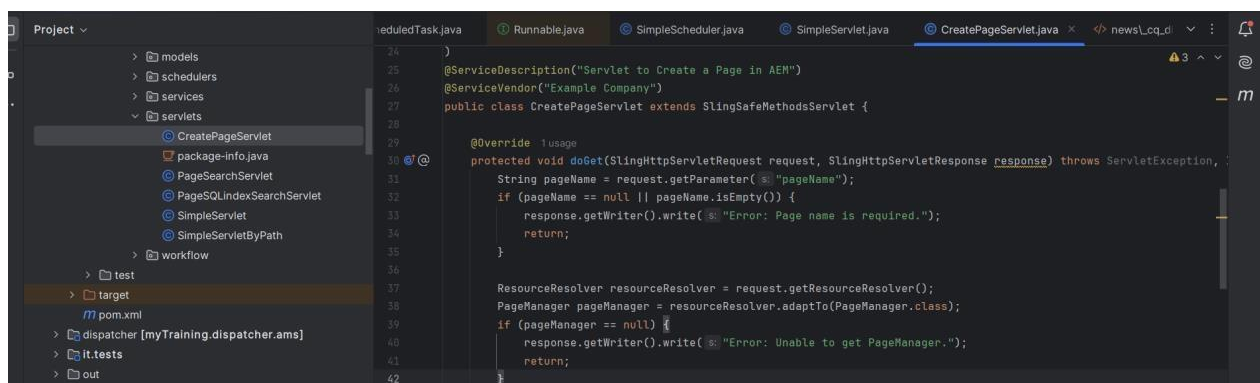
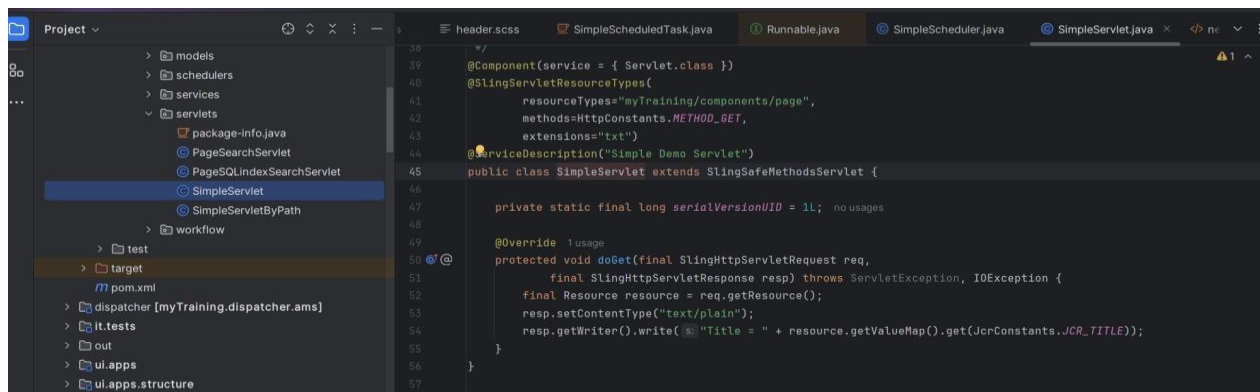
}

}

}

```

Screenshots:



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localhost:4502/bin/createpage?pageName=newPage

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Page created successfully: /content/myTraining/us/en/newPage

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