

Create SampleServlet extend the SlingAllMethod Servlet and register it using resourceType

SampleServlet.java

```
package com.myTraining.core.servlets;

import org.apache.sling.api.servlets.SlingAllMethodsServlet;
import org.apache.sling.api.resource.ResourceResolver;
import org.apache.sling.api.SlingHttpServletRequest;
import org.apache.sling.api.SlingHttpServletResponse;
import org.osgi.service.component.annotations.Component;
import org.osgi.framework.Constants;

import javax.servlet.ServletException;
import java.io.IOException;

@Component(
    service = Servlet.class,
    property = {
        Constants.SERVICE_DESCRIPTION + "= Sample Servlet Using Resource Type",
        "sling.servlet.resourceTypes=myproject/components/sample",
        "sling.servlet.methods=GET"
    }
)

public class SampleServlet extends SlingAllMethodsServlet {
```

@Override

```
protected void doGet(SlingHttpServletRequest request,  
SlingHttpServletResponse response)
```

```
throws ServletException, IOException {
```

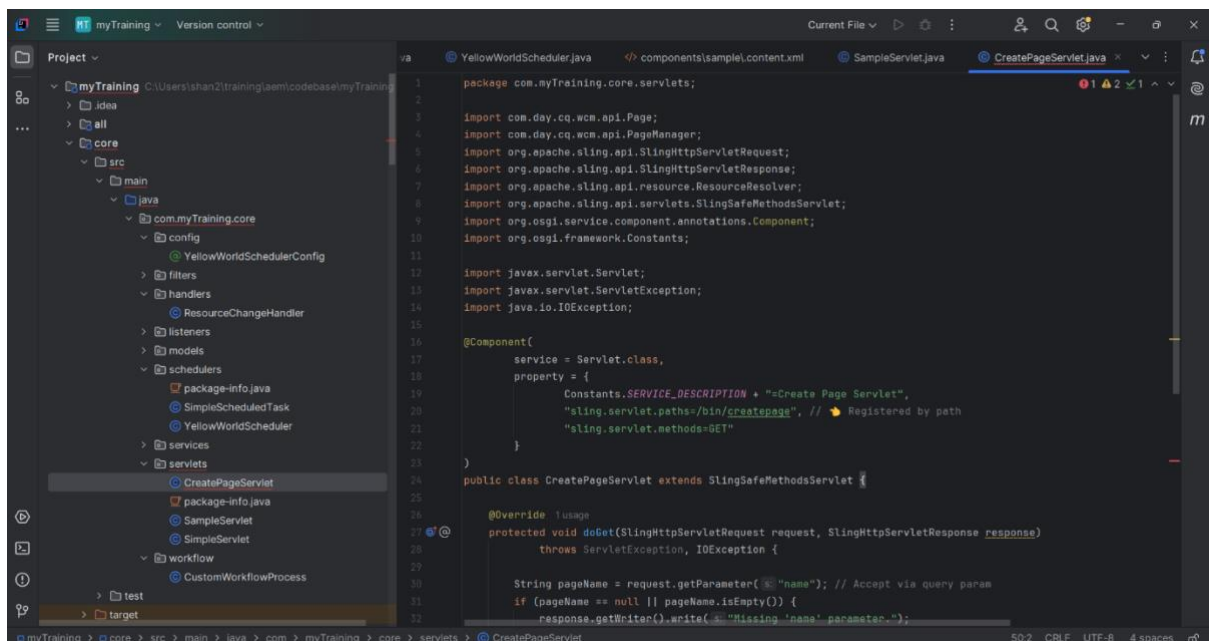
```
response.setContentType("application/json");
```

```
response.getWriter().write("{\"message\":\"Hello from  
SampleServlet!\"}");
```

```
}
```

```
}
```

Create CreatePageServlet extend the SlingSafeMethod Servlet and register it using path



Take page name from user and create pages in aem using above servlet

```
<form method="POST" action="/bin/createpage">
```

```
<input type="text" name="pageName" placeholder="Enter Page Name" />
```

```
<button type="submit">Create Page</button>
```

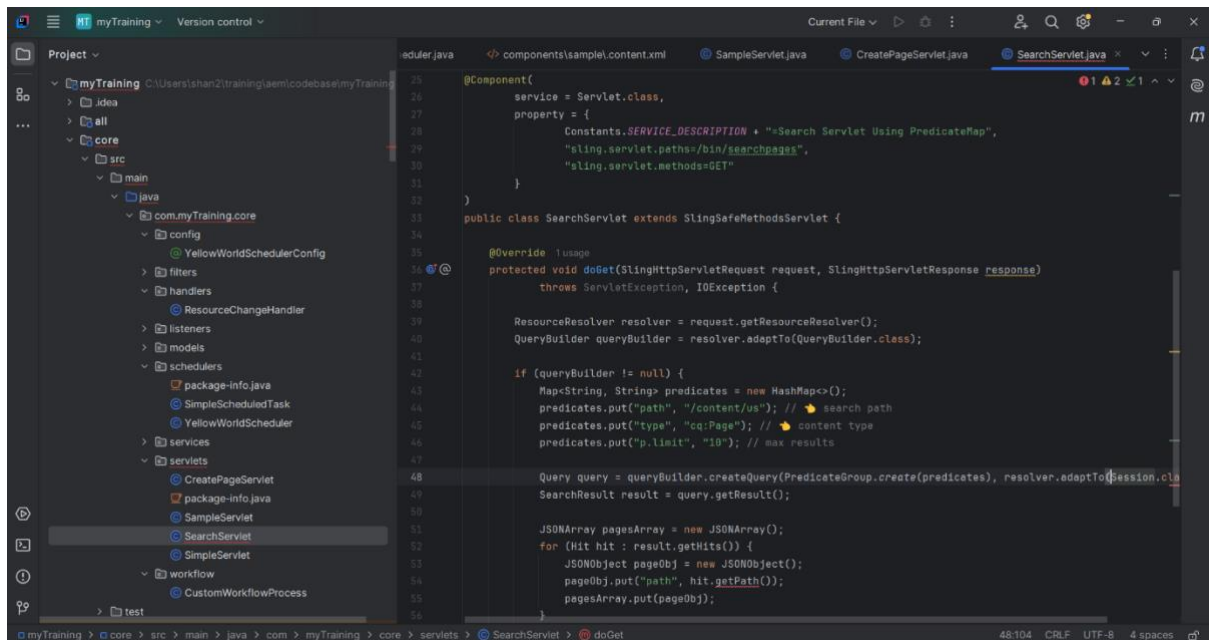
```
</form>
```

Use page Manager Apis for above task

PageManager pageManager = resourceResolver.adaptTo(PageManager.class);

pageManager.create("/content/mysite", pageName, "templatePath", title);

Create one SearchServlet to search the content using PredicateMap to search the content from pages



```
25 @Component(
26     service = Servlet.class,
27     property = {
28         Constants.SERVICE_DESCRIPTION + "Search Servlet Using PredicateMap",
29         "sling.servlet.paths=/bin/searchpages",
30         "sling.servlet.methods=GET"
31     }
32 )
33 public class SearchServlet extends SlingsafeMethodsServlet {
34
35     @Override
36     protected void doGet(SlingHttpServletRequest request, SlingHttpServletResponse response)
37         throws ServletException, IOException {
38
39         ResourceResolver resolver = request.getResourceResolver();
40         QueryBuilder queryBuilder = resolver.adaptTo(QueryBuilder.class);
41
42         if (queryBuilder != null) {
43             Map<String, String> predicates = new HashMap<>();
44             predicates.put("path", "/content/us"); // search path
45             predicates.put("type", "cq:Page"); // content type
46             predicates.put("p.limit", "10"); // max results
47
48             Query query = queryBuilder.createQuery(PredicateGroup.create(predicates), resolver.adaptTo(Session.class));
49             SearchResult result = query.getResult();
50
51             JSONArray pagesArray = new JSONArray();
52             for (Hit hit : result.getHits()) {
53                 JSONObject pageObj = new JSONObject();
54                 pageObj.put("path", hit.getPath());
55                 pagesArray.put(pageObj);
56             }
57         }
58     }
59 }
```