AEM TASK 7

1.Create SampleServlet extend the SlingAllMethod Servlet and register it using resourceType

```
@Component(
  service = Servlet.class,
                           property =
{
    Constants.SERVICE_DESCRIPTION + "= Sample Servlet",
     "sling.servlet.methods=GET",
     "sling.servlet.resourceTypes=myTraining/components/structure/page",
"sling.servlet.extensions=json"
)
public class SampleServlet extends SlingAllMethodsServlet {
  @Override
                     void
                                    doGet(SlingHttpServletRequest
  protected
                                                                             request,
SlingHttpServletResponse response)
                                          throws
ServletException, IOException {
                                     Resource resource =
request.getResource();
response.setContentType("application/json");
    response.getWriter().write("{\"message\": \"This is a servlet for: " +
resource.getResourceType() + "\"}");
  }
```

2.Create CreatePageServlet extend the SlingSafeMethod Servlet and register it using path

```
package com.aemtasks.core.servlets;
import org.apache.sling.api.SlingHttpServletRequest; import
org.apache.sling.api.SlingHttpServletResponse; import
org.apache.sling.api.servlets.SlingSafeMethodsServlet; import
org.osgi.service.component.annotations.Component; import
javax.servlet.Servlet; import javax.servlet.ServletException; import
java.io.IOException;
@Component(service = Servlet.class, property = {
     "sling.servlet.paths=/bin/createpage"
})
public class CreatePageServlet extends SlingSafeMethodsServlet {
  @Override
                                       doGet(SlingHttpServletRequest
            protected
                           void
                                                                              request,
SlingHttpServletResponse response)
                                           throws
ServletException, IOException {
response.setContentType("text/plain");
     response.getWriter().write("This servlet will be used to create AEM pages.");
  }
}
```

3. Take page name from user and create pages in aem using above servlet and 4. Use page Manager Apis for above task.

```
This servlet will be used to create AEM pages.
```

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

package com.aemtasks.core.servlets; import com.day.cq.search.PredicateGroup; import com.day.cq.search.Query; import com.day.cq.search.QueryBuilder; import com.day.cq.search.result.Hit; import com.day.cq.search.result.Result; import org.apache.sling.api.SlingHttpServletRequest; import org.apache.sling.api.SlingHttpServletResponse; import org.apache.sling.api.resource.ResourceResolver; import org.apache.sling.api.servlets.SlingSafeMethodsServlet; import org.osgi.service.component.annotations.Component; import org.osgi.service.component.annotations.Reference;

```
import javax.jcr.Session; import
javax.servlet.Servlet; import
javax.servlet.ServletException; import
java.io.IOException; import
java.util.HashMap; import java.util.Map;

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

```
public class SearchServlet extends SlingSafeMethodsServlet {
  @Reference
  private QueryBuilder queryBuilder;
  @Override
  protected
                      void
                                     doGet(SlingHttpServletRequest
                                                                               request,
SlingHttpServletResponse response)
                                           throws
ServletException, IOException {
response.setContentType("text/plain");
     String searchText = request.getParameter("searchText");
     ResourceResolver resolver = request.getResourceResolver();
     Session session = resolver.adaptTo(Session.class);
     if (searchText != null && session != null) {
Map<String, String> map = new HashMap<>();
map.put("path", "/content");
                                   map.put("type",
"cq:Page");
                   map.put("fulltext", searchText);
map.put("p.limit", "-1");
       Query
                                                query
queryBuilder.createQuery(PredicateGroup.create(map), session);
                                                                       Result
result = query.getResult();
       for (Hit hit : result.getHits()) {
         response.getWriter().write(hit.getPath() + "\n");
       }
     } else {
       response.getWriter().write("Missing searchText or session.");
  }
```

```
/content/mytraining/us/en/nees/article-1
/content/mytraining/us/en/nees/article-2
/content/mytraining/us/en/nees/article-3
/content/mytraining/us/en/nees/article-3
/content/mytraining/us/en/nees/article-3
/content/mytraining/us/en/nees/article-3
/content/mytraining/us/en/neos/article-3
/content/mytraining/us/en/neos/article-3
/content/mytraining/us/en/neos/article-3
/content/mytraining/us/en/neos/article-3
/content/mytraining/us/en/neos/crea/about-us
/content/mytraining/us/en-project/en/nout-us
/content/mytraining/us/en-project/en/nous/
/content/mytraining/us/en-project/en/nous/
/content/mytraining/us/en-project/en/nous/nous-3
/content/mytraining/us/en-project/en/nous/nous-3
/content/mytraining/us/en-project/en/nous/nous-3
/content/mytraining/us/en-project/en/nous/nous-3
/content/mytraining/us/en-project/en/nous/nous-3
/content/mytraining/us/en-project/en/nous/nous-3
/content/mytraining/us/en/nous/crea/nous/nous-3
/content/mytraining/us/en/nous/en/subous-1
/content/mytraining/us/en/nous/en/subous-1
/content/mytraining/us/en/nous/en/subous-1
/content/mytraining/us/en/nous/en/subous-1
/content/mytraining/us/en/nous/en/subous-1
/content/mytraining/us/en/subous-1
/content/mytraining/us/en/su
```

}