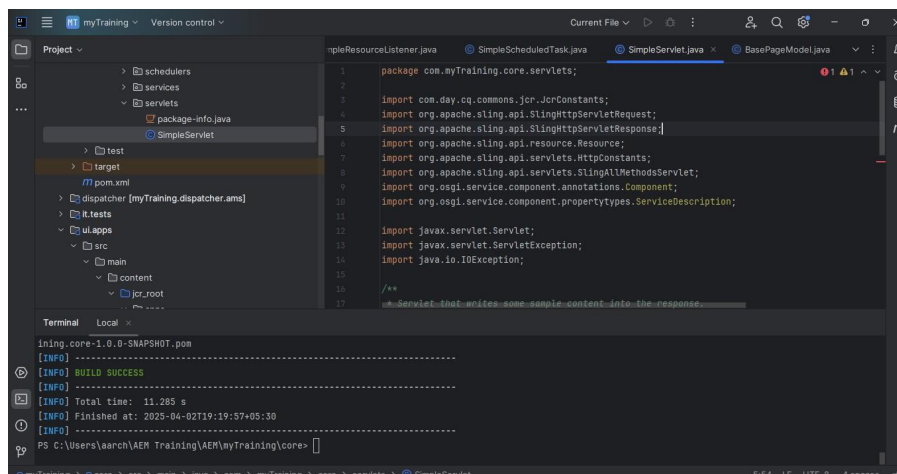


1. Create SampleServlet

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

Implementation

1. 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

1. 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.

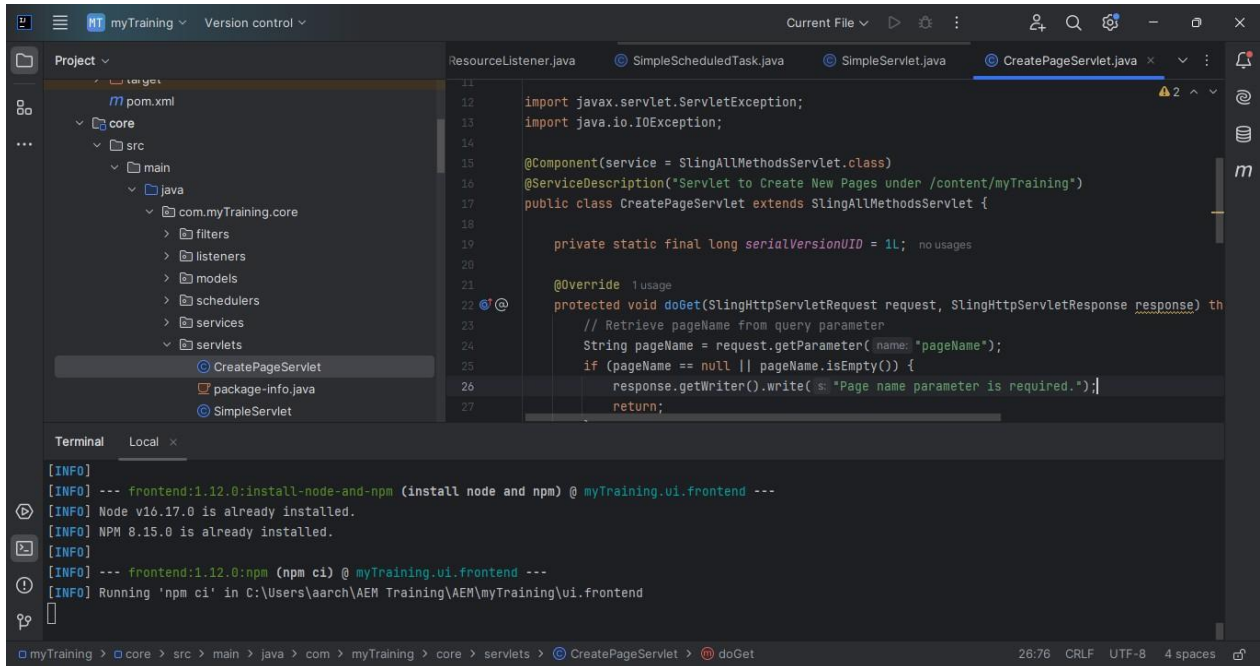
```
@SlingServletPaths("/bin/createpage")
public class CreatePageServlet extends SlingSafeMethodsServlet
{ @Reference
  private ResourceResolverFactory resolverFactory;

  @Override
  protected void doGet(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/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());
}
}
}
}
}

```

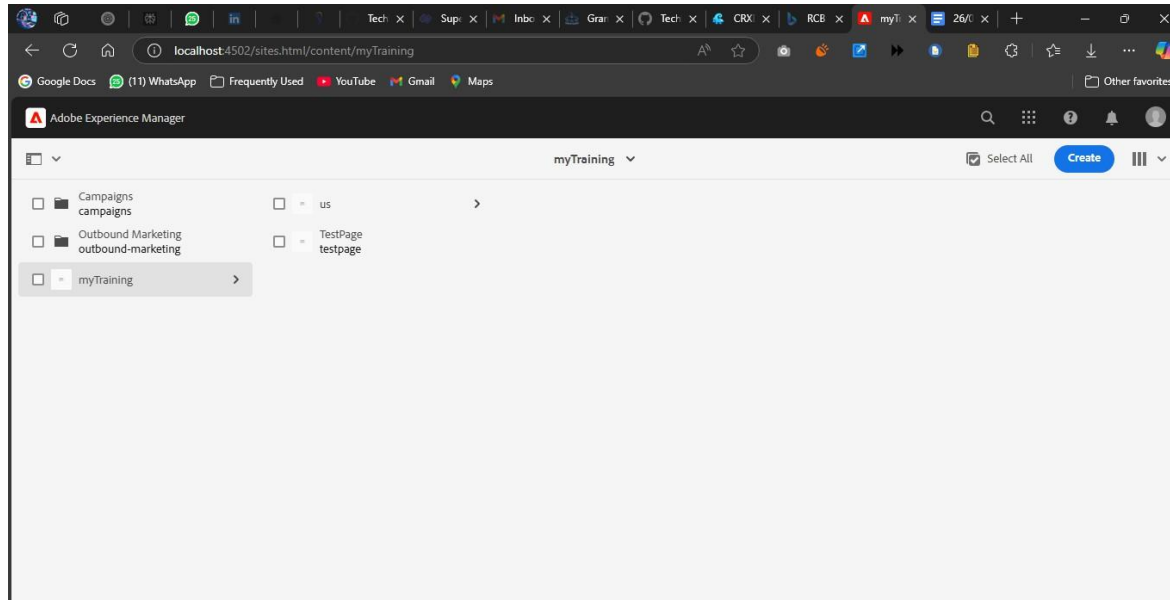


```

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

```

Page Created Successfully:



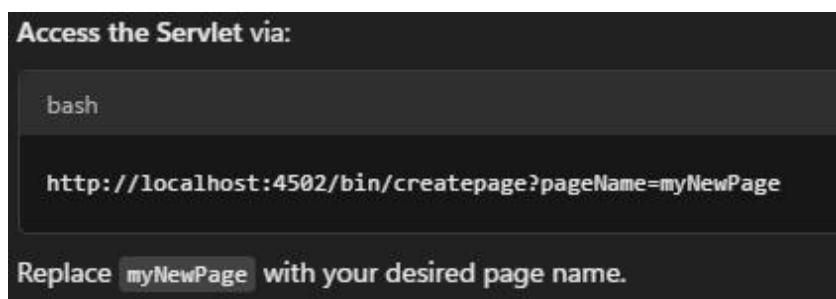
3. Create Pages in AEM via User Input

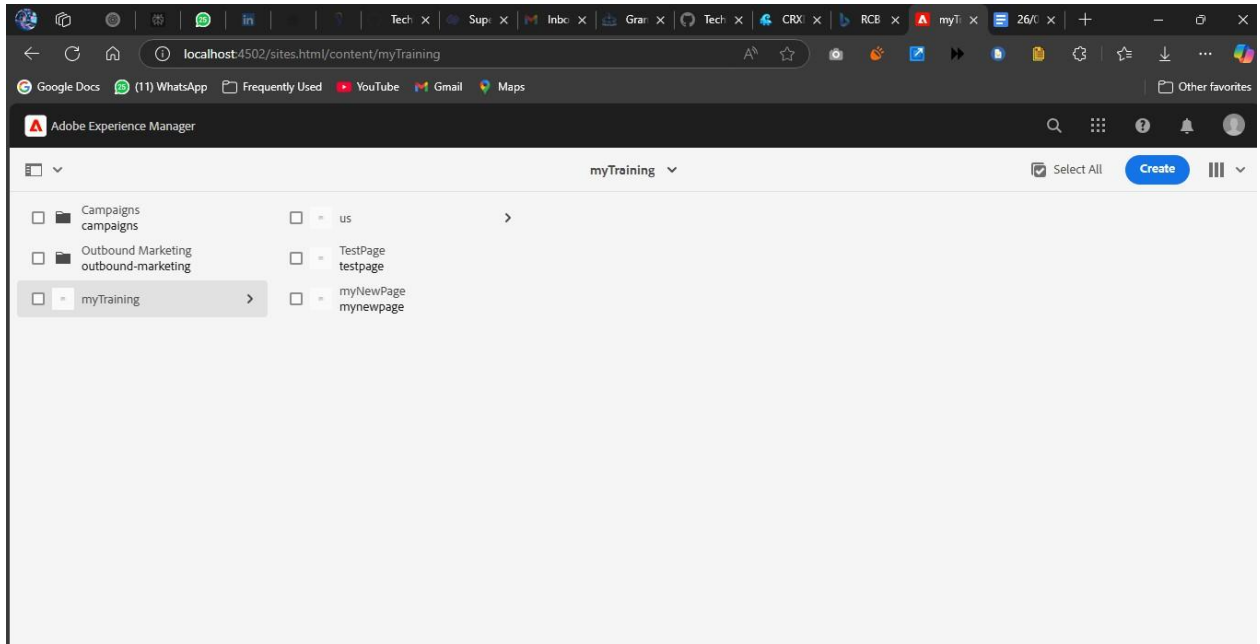
Objective

- 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`.
3. Returns success or error messages as responses.





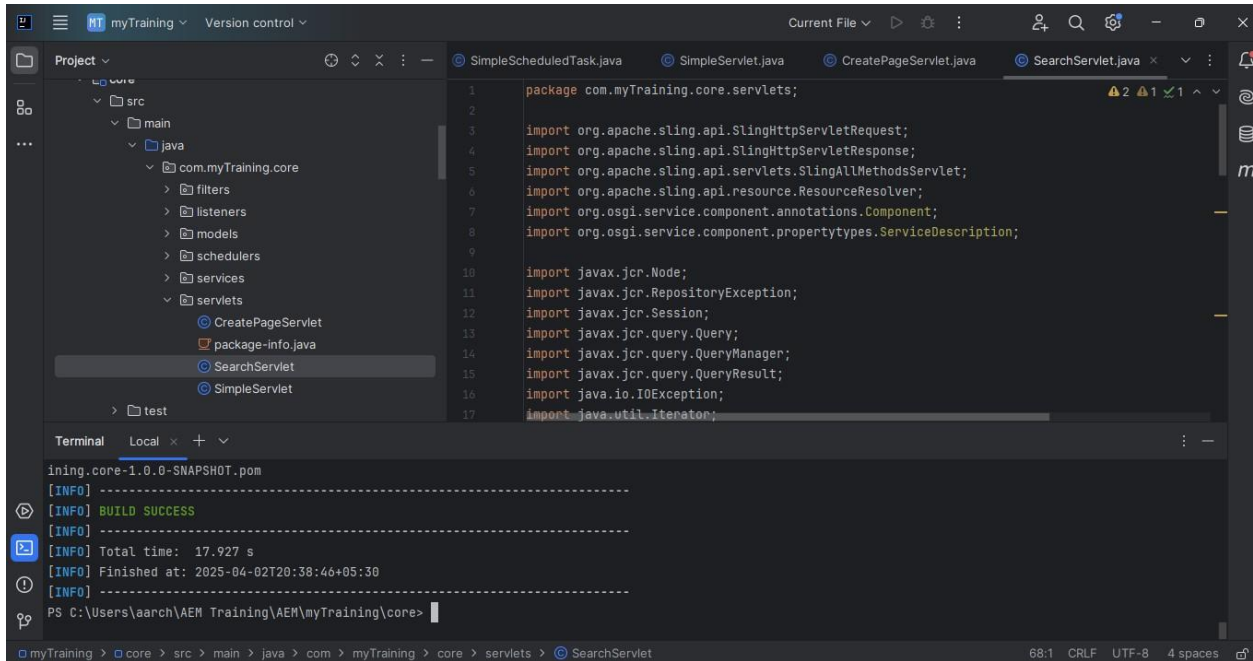
4. Implement `SearchServlet` Using `PredicateMap`

Objective

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

Implementation

1. 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:

