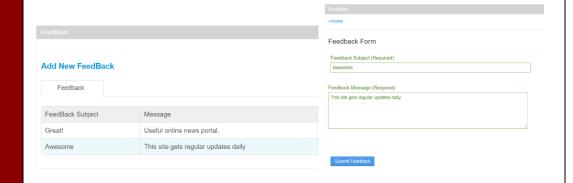
## **Chathushi Jayarathna - Assignment 5**

## Lab Assessment Statement

#### Assignment 5 - Develop an Application

#### Referring to Assignment-1's Project Scenario,

The scope of this assignment is, to implement the previous Feedback portlet to a database-driven application for saving and retrieving the user data. Users can be left a message of his/her opinion to the "Online News Portal". This is a sample of what the final result should look like.



These are the steps provided to build an application.

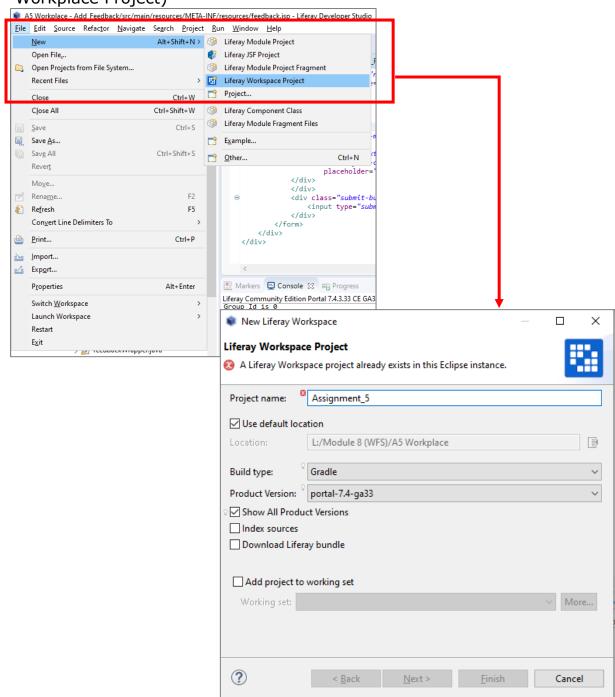
- To implement a database-driven application,
   right-click on previous Feedback MVC project -> create a new Liferay
   service builder with package path "com.liferay.docs.feedback".
   Use the namspace as FB.
- 2. Create an entity as a local service in service.xml with entity name Feedback.
- 3. Define the columns as the following.
  - <column name="feedbackId" type="long" primary="true"></column>
  - <column name="feedbackDate" type="Date"></column>
  - <column name="feedbackText" type="String"></column>
  - <column name="feedbackSubject" type="String"></column>
  - <column name="companyId" type="long"></column>
  - <column name="groupId" type="long"></column>
  - <column name="userId" type="long"></column>

	4. In service.xml, define the order of feedback entity by ascending
	feedbackId.
	5. In service.xml, define Service Entity Finder Methods for GroupId,
	CompanyId and feedbackText cloumns.
	6. Build your service. If build success, check the service Builder generates
	classes and interfaces belonging to the persistence layer, service layer,
	and model layer.
	7. Expose the Finder in the Service Layer *LocalServiceImpl. Implement a
	service layer for Feedback entity and create a method "addFeeback" that
	adds Feedbacks to the database.
	8. Update controller (your portlet class) action method to handle the
	Feedback form.
	9. Update view.jsp page to display all the feedback.
	10. Build your service application, deploy your portlet, and try adding some
	Feedback for your portal.
	Provide caption and screenshots for each step.
	Provide screen capture of final result pages.
Technical	-
Environment	
Guidelines	
Duration	120 mins

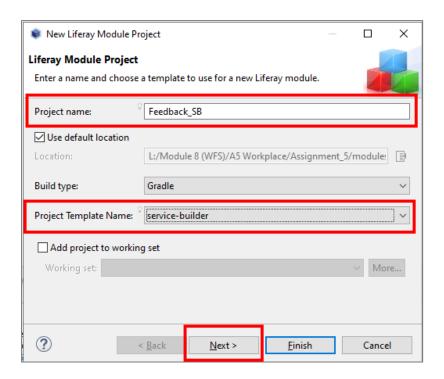
1. To implement a database-driven application,

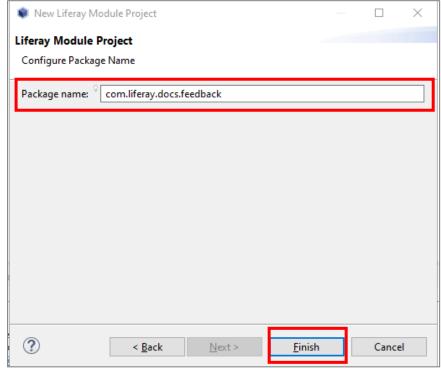
**Step 1** - Create Liferay Workplace Project (File → New → Liferay

Workplace Project)



**Step 2 -** Right-click on the Feedback MVC project → create a new Liferay service builder (Package → "com.liferay.docs.feedback")

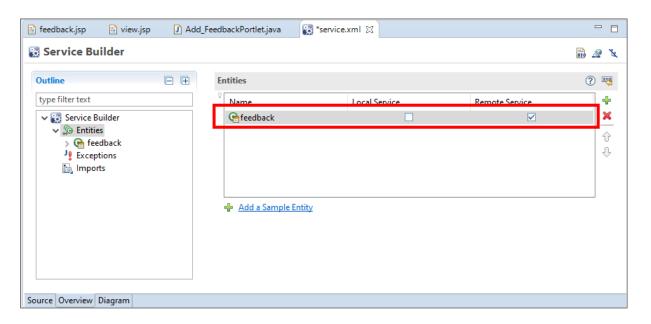


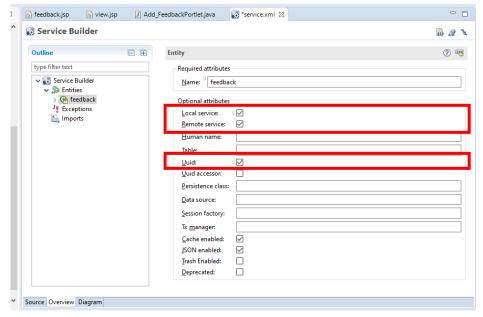


## Step 3 - Give the namespace as "FB" in "service.xml"

```
| Service.xml |
```

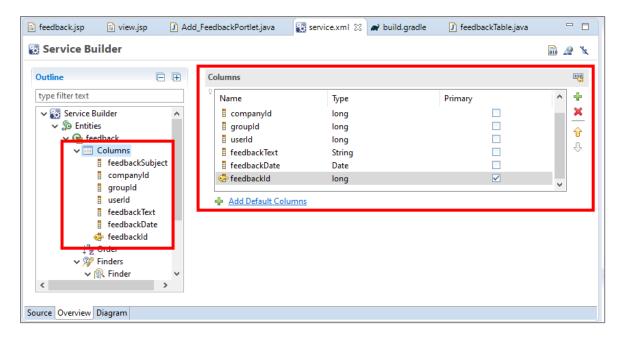
**Step 4 -** Create an entity as a local service in service.xml with the entity name Feedback.





## Step 5 - Define the columns as the following.

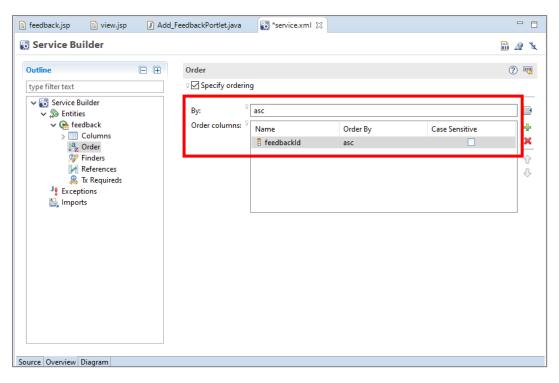
```
<column name="feedbackId" type="long" primary="true"></column>
<column name="feedbackDate" type="Date"></column>
<column name="feedbackText" type="String"></column>
<column name="feedbackSubject" type="String"></column>
<column name="companyId" type="long"></column>
<column name="groupId" type="long"></column>
<column name="userId" type="long"></column>
```



```
- -
feedback.jsp
                                 *service.xml 🛭
                  view.jsp
    <!DOCTYPE service-builder PUBLIC "-//Liferay//DTD Service Builder 7.4.0//EN" "http://www.liferay.com/dtd/liferay-s</pre>

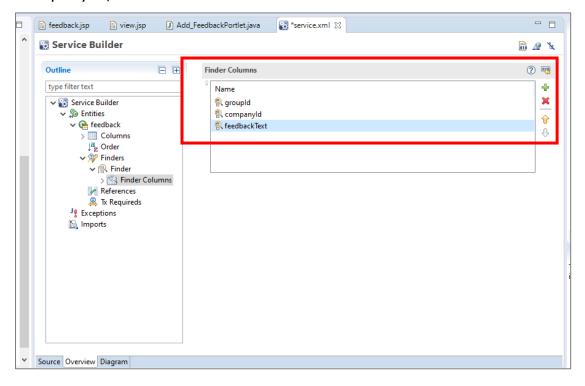
⊗ <service-builder dependency-injector="ds" package-path="com.liferay.docs.feedback">
         <namespace>FB</namespace>
                                                                                             remote-service="false" session-fact
         <entity name="feedback" local-service="true" uuid="true">
             <column name="feedbackSubject" type="String"></column>
             <column name="companyId" type="long"></column>
             <column name="groupId" type="long"></column>
             <column name="userId" type="long"></column>
<column name="feedbackText" type="5tring"></column>
<column name="feedbackDate" type="Date"></column>
             <column name="feedbackId" type="long" primary="true"></column>
         </entity>
       service-builder:
```

# **Step 6 -** In service.xml, define the order of feedback entity by ascending feedbackId.



```
| Seedback.jsp | New.jsp | Add_FeedbackPortlet.java | New.jsp | New.jsp
```

**Step 7 -** In service.xml, define Service Entity Finder Methods for GroupId, CompanyId, and feedback text columns.



**Step 8 -** Build your service. If the build success, check the service Builder generates classes and interfaces belonging to the persistence layer, service layer, and model layer.

```
dependencies {
   compileOnly group: "com.liferay.portal", name: "release.portal.api"
   cssBuilder group: "com.liferay", name: "com.liferay.css.builder", version: "3.1.0"
   compile project(":modules:Feedback_SB:Feedback_SB-api");
   Assignment_5
      JRE System Library [JavaSE-11]
     > 🗁 configs
     > 🗁 gradle
     > 📂 Add_Feedback
        Feedback_SB
          > 👺 Feedback_SB-api
          Feedback_SB-service

> M feedbackBaselmpl.java

                  J feedbackCacheModel.java

> III feedbacklmpl.java

                  J feedbackModellmpl.java

    tom.liferay.docs.feedback.service.base

    feedbackLocalServiceBaseImpl.java

    feedbackServiceBaseImpl.java

    tom.liferay.docs.feedback.service.http

                  J feedbackServiceHttp.java

    tom.liferay.docs.feedback.service.impl

                  J feedbackLocalServiceImpl.java
                  J feedbackServiceImpl.java

    Am com.liferay.docs.feedback.service.persistence.impl

                  J feedbackModelArgumentsResolver.java
                  J feedbackPersistenceImpl.java

    tom.liferay.docs.feedback.service.persistence.impl.consta

                  FBPersistenceConstants.java
             # src/main/resources
                > > META-INF
                  service.properties
             JRE System Library [JavaSE-11]
             Project and External Dependencies
             > 🗁 bin
             > R src
```

**Step 9 -** Expose the Finder in the Service Layer \*LocalServiceImpl. Implement a service layer for the Feedback entity and create a method "addFeeback" that adds Feedback to the database.

```
public class Add_FeedbackPortlet extends MVCPortlet {
   public void feedbackmethod(ActionRequest request, ActionResponse response) {
        DateFormat df=new SimpleDateFormat("dd/MM/yyyyy");
        int feedbackId =(int) CounterLocalServiceUtil.increment(feedback.class.toString());

        String feedbackSubject=ParamUtil.getString(request, "subject");
        Date feedbackDate= (Date) ParamUtil.getDate(request, "date",df);
        String feedbackText=ParamUtil.getString(request, "message");
        Long companyId=ParamUtil.getLong(request, "comid");
        Long groupId=ParamUtil.getLong(request, "groupid");
        Long userId=ParamUtil.getLong(request, "userid");

        System.out.println("Subject is "+ feedbackSubject);
        System.out.println("Date is "+ feedbackDate);
        System.out.println("Message is "+ feedbackText);
        System.out.println("Group Id is "+ groupId);
        System.out.println("Company Id is "+ companyId);
        System.out.println("User Id is "+ userId);
    }
}
```

Step 10 - Create a method "addFeeback" that adds Feedbacks to the database.

```
feedback fback = feedbackLocalServiceUtil.createfeedback(feedbackId);
  fback.setFeedbackSubject(feedbackSubject);
  fback.setFeedbackDate(feedbackDate);
  fback.setFeedbackText(feedbackText);
  fback.setGroupId(groupId);
  fback.setCompanyId(companyId);
  fback.setUserId(userId);
  feedbackLocalServiceUtil.addfeedback(fback);
}
```

**Step 11 -** Update the controller (your portlet class) action method to handle the Feedback form.

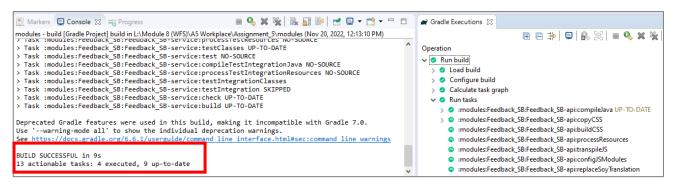
```
package com.liferay.docs.feedback.portlet;
⊕ import com.liferay.counter.kernel.service.CounterLocalServiceUtil;
⊝ /**
  * @author PC
 @Component(
     immediate = true,
     property = {
          "com.liferay.portlet.display-category=category.sample",
          "com.liferay.portlet.header-portlet-css=/css/main.css",
          "com.liferay.portlet.instanceable=true",
          "javax.portlet.display-name=Add_Feedback",
          "javax.portlet.init-param.template-path=/
          "javax.portlet.init-param.view-template=/view.jsp",
          "javax.portlet.name=" + Add_FeedbackPortletKeys.ADD_FEEDBACK,
          "javax.portlet.resource-bundle=content.Language",
          "javax.portlet.security-role-ref=power-user,user
     service = Portlet.class
 )
 public class Add FeedbackPortlet extends MVCPortlet {
     public void feedbackmethod(ActionRequest request,ActionResponse response) {
         DateFormat df=new SimpleDateFormat("dd/MM/yyyy");
          int feedbackId =(int) CounterLocalServiceUtil.increment(feedback.class.toString());
         String feedbackSubject=ParamUtil.getString(request, "subject");
         Date feedbackDate= (Date) ParamUtil.getDate(request, "date",df);
         String feedbackText=ParamUtil.getString(request, "message");
          Long companyId=ParamUtil.getLong(request, "comid");
         Long groupId=ParamUtil.getLong(request, "groupId");
Long userId=ParamUtil.getLong(request, "userid");
         System.out.println("Subject is "+ feedbackSubject);
         System.out.println("Date is "+ feedbackDate);
         System.out.println("Message is "+ feedbackText);
         System.out.println("Group Id is "+ groupId);
         System.out.println("Company Id is "+ companyId);
```

## Step 12 - Update view.jsp page to display all the feedback.

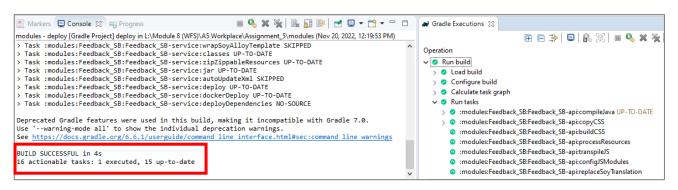
```
kdiv class="row" style="margin:20px">
kliferay-ui:search-container total="%= feedbackLocalServiceUtil.getfeedbacksCount() %>" >
kliferay-ui:search-container-results
results="%= feedbackLocalServiceUtil.getfeedbacks(searchContainer.getStart(), bearchContainer.getEnd()) %>"
//
kliferay-ui:search-container-row
className="com.liferay.docs.feedback.model.feedback"
modelVar="aFeedback"
}
kliferay-ui:search-container-column-text property="feedbackText" name="" />
kliferay-ui:search-container-column-text property="feedbackSubject" name="" />
kliferay-ui:search-container-row>
kliferay-ui:search-iterator />
kliferay-ui:search-container-container-column-text property="feedbackSubject" name="" />
kliferay-ui:search-container-row>
kliferay-ui:search-container-container-column-text property="feedbackSubject" name="" />
kliferay-ui:search-container-row>
kliferay-ui:search-container-container>
kliferay-ui:search-container-container>
kliferay-ui:search-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-container-
```

**Step 13** - Build your service application, deploy your portlet, and try adding some Feedback for your portal.

## ✓ Build Service Application

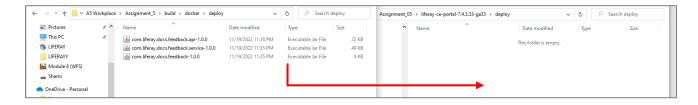


## ✓ Deploy the portlet

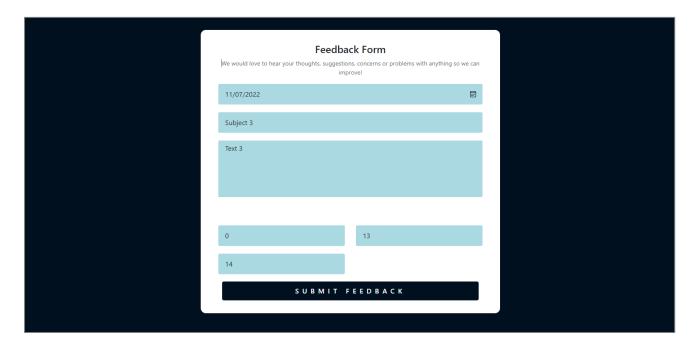


## Step 14 - Go to

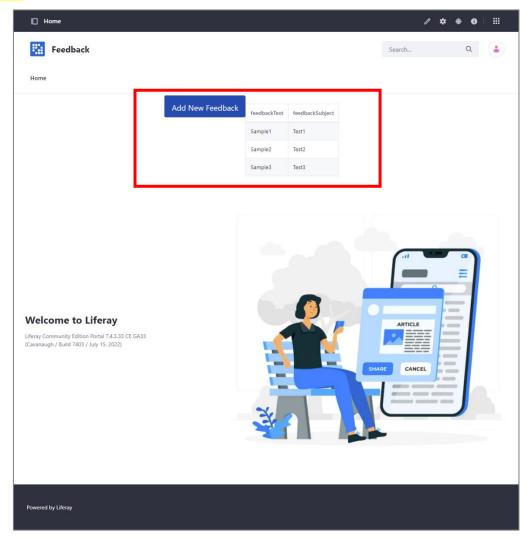
"L:\Module 8 (WFS)\A5 Workplace\Assignment\_5\build\docker\deploy" and drag and drop "com.liferay.docs.feedback.portlet-1.0.0" file to "L:\Module 8 (WFS)\Assignment\_05\liferay-ce-portal-7.4.3.33-ga33\deploy"



Step 15 - Fill out the Feedback Form



Step 16 - Add the Feedback for the portal and display all the feedback



#### ✓ Print in the console

```
Source Overview Diagram
                                                                       🔣 Markers 📮 Console 🔀 🖷 Progress
Liferay Community Edition Portal 7.4.3.33 CE GA33(2) at localhost [Liferay 7.x] C:\Program Files\Java\jdk-11.0.16.1\bin\javaw.exe (Nov 19, 2022, 9:39:38 PM)
Group Id is 0
Company Id is 3
User Id is 2
Subject is Test2
Date is Sat Nov 19 18:03:10 GMT 2022
Message is Sample2
Group Id is 0
Company Id is 13
User Id is 14
2022-11-19 18:08:54.297 INFO
                              [com.liferay.portal.kernel.deploy.auto.AutoDeployScanner][AutoDeployDir:238] Processing
2022-11-19 18:08:54.497 INFO
                              [com.liferay.portal.kernel.deploy.auto.AutoDeployScanner][AutoDeployDir:238] Processing
2022-11-19 18:08:54.726 INFO
                              [com.liferay.portal.kernel.deploy.auto.AutoDeployScanner][AutoDeployDir:238] Processing
2022-11-19 18:09:04.186 TNFO
                              [fileinstall-directory-watcher][BundleStartStopLogger:80] STOPPED com.liferay.docs.feed
                              [fileinstall-directory-watcher][BundleStartStopLogger:80] STOPPED com.liferay.docs.feed
2022-11-19 18:09:04.575 INFO
2022-11-19 18:09:05.019 INFO
                               [Refresh Thread: Equinox Container: d44b8992-6907-4572-b7cc-992db98814f3][BundleStartSt
2022-11-19 18:09:05.861 WARN
                              [Refresh Thread: Equinox Container: d44b8992-6907-4572-b7cc-992db98814f3][ServiceCompor
2022-11-19 18:09:06 002 TNFO
```

## ✓ Adding data to database

