

# ***BYOD 1***

## Build and Release Management



**SUBMITTED BY**

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**Section : K23DV**

**Registration Number: 12300831**

**Submitted to  
Utkarsh Aggarwal**



```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Asus\feedback_portal> mvn -q -DskipTests package

-----
constituent[0]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/conf/logging/
constituent[1]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/aopalliance-1.0.jar
constituent[2]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/asm-9.8.jar
constituent[3]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/commons-cli-1.9.0.jar
constituent[4]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/commons-codec-1.18.0.jar
constituent[5]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/error_prone_annotations-2.38.0.jar
constituent[6]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/failureaccess-1.0.3.jar
constituent[7]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/gson-2.13.1.jar
constituent[8]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/guava-33.4.8-jre.jar
constituent[9]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/guice-5.1.0-classes.jar
constituent[10]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/httpclient-4.5.14.jar
constituent[11]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/httpcore-4.4.16.jar
constituent[12]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/jansi-2.4.2.jar
constituent[13]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/jcl-over-slf4j-1.7.36.jar
constituent[14]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/jspicify-1.0.0.jar
constituent[15]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-artifact-3.9.11.jar
constituent[16]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-builder-support-3.9.11.jar
constituent[17]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-compat-3.9.11.jar
constituent[18]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-core-3.9.11.jar
constituent[19]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-embedder-3.9.11.jar
constituent[20]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-model-3.9.11.jar
constituent[21]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-model-builder-3.9.11.jar
constituent[22]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-plugin-api-3.9.11.jar
constituent[23]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-repository-metadata-3.9.11.jar
constituent[24]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-api-1.9.24.jar
constituent[25]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-connector-basic-1.9.24.jar
constituent[26]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-impl-1.9.24.jar
constituent[27]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-named-loops-1.9.24.jar
constituent[28]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-provider-3.9.11.jar
constituent[29]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-spi-1.9.24.jar
constituent[30]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-transport-file-1.9.24.jar
constituent[31]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-transport-http-1.9.24.jar
constituent[32]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-transport-wagon-1.9.24.jar
```

```
constituent[32]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-transport-wagon-1.9.24.jar
constituent[33]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-util-1.9.24.jar
constituent[34]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-settings-3.9.11.jar
constituent[35]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-settings-builder-3.9.11.jar
constituent[36]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-shared-utils-3.4.2.jar
constituent[37]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-slf4j-provider-3.9.11.jar
constituent[38]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/org.eclipse.sisu.inject-0.9.0.M4.jar
constituent[39]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/org.eclipse.sisu.plexus-0.9.0.M4.jar
constituent[40]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/plexus-cipher-2.0.jar
constituent[41]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/plexus-component-annotations-2.2.0.jar
constituent[42]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/plexus-interpolation-1.28.jar
constituent[43]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/plexus-sec-dispatcher-2.0.jar
constituent[44]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/plexus-utils-3.6.0.jar
constituent[45]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/slf4j-api-1.7.36.jar
constituent[46]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/wagon-file-3.5.3.jar
constituent[47]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/wagon-http-3.5.3.jar
constituent[48]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/wagon-http-shared-3.5.3.jar
constituent[49]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/wagon-provider-api-3.5.3.jar
```

```
-----
Exception in thread "main" java.lang.NoClassDefFoundError: javax/inject/Provider
    at org.apache.maven.cli.MavenCli.container(MavenCli.java:648)
    at org.apache.maven.cli.MavenCli.doMain(MavenCli.java:277)
    at org.apache.maven.cli.MavenCli.main(MavenCli.java:206)
    at java.base/jdk.internal.reflect.DirectMethodHandleAccessor.invoke(DirectMethodHandleAccessor.java:104)
    at java.base/java.lang.reflect.Method.invoke(Method.java:565)
    at org.codehaus.plexus.classworlds.launcher.Launcher.launchEnhanced(Launcher.java:255)
    at org.codehaus.plexus.classworlds.launcher.Launcher.launch(Launcher.java:201)
    at org.codehaus.plexus.classworlds.launcher.Launcher.mainWithExitCode(Launcher.java:361)
    at org.codehaus.plexus.classworlds.launcher.Launcher.main(Launcher.java:314)
Caused by: java.lang.ClassNotFoundException: javax.inject.Provider
    at org.codehaus.plexus.classworlds.strategy.SelfFirstStrategy.loadClass(SelfFirstStrategy.java:42)
    at org.codehaus.plexus.classworlds.realm.ClassRealm.unsynchronizedLoadClass(ClassRealm.java:225)
    at org.codehaus.plexus.classworlds.realm.ClassRealm.loadClass(ClassRealm.java:210)
    at org.codehaus.plexus.classworlds.realm.ClassRealm.loadClass(ClassRealm.java:205)
    ... 9 more
```

```
PS C:\Users\Asus\feedback_portal> mvn -q -DskipTests package

-----
constituent[0]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/conf/logging/
constituent[1]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/aopalliance-1.0.jar
constituent[2]: file:/C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/asm-9.8.jar
```



```
constituent[23]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-repository-metadata-3.9.11.jar
constituent[24]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-api-1.9.24.jar
constituent[25]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-connector-basic-1.9.24.jar
constituent[26]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-impl-1.9.24.jar
constituent[27]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-named-lock-1.9.24.jar
constituent[28]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-provider-3.9.11.jar
constituent[29]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-spi-1.9.24.jar
constituent[30]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-transport-file-1.9.24.jar
constituent[31]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-transport-http-1.9.24.jar
constituent[32]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-transport-wagon-1.9.24.jar
constituent[33]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-resolver-util-1.9.24.jar
constituent[34]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-settings-3.9.11.jar
constituent[35]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-settings-builder-3.9.11.jar
constituent[36]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-shared-utils-3.4.2.jar
constituent[37]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/maven-slf4j-provider-3.9.11.jar
constituent[38]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/org.eclipse.sisu.inject-0.9.0.M4.jar
constituent[39]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/org.eclipse.sisu.plexus-0.9.0.M4.jar
constituent[40]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/org.eclipse.sisu.plexus-0.9.0.M4.jar
constituent[41]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/plexus-component-annotations-2.2.0.jar
constituent[42]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/plexus-interpolation-1.28.jar
constituent[43]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/plexus-sec-dispatcher-2.0.jar
constituent[44]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/plexus-utils-3.6.0.jar
constituent[45]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/slf4j-api-1.7.36.jar
constituent[46]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/wagon-file-3.5.3.jar
constituent[47]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/wagon-http-3.5.3.jar
constituent[48]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/wagon-http-shared-3.5.3.jar
constituent[49]: file:C:/Users/Asus/Downloads/apache-maven-3.9.11-bin/apache-maven-3.9.11/lib/wagon-provider-api-3.5.3.jar
-----
Exception in thread "main" java.lang.NoClassDefFoundError: javax/Inject/Provider
    at org.apache.maven.cli.MavenCli.container(MavenCli.java:648)
    at org.apache.maven.cli.MavenCli.doMain(MavenCli.java:277)
    at org.apache.maven.cli.MavenCli.main(MavenCli.java:206)
    at java.base/jdk.internal.reflect.DirectMethodHandleAccessor.invoke(DirectMethodHandleAccessor.java:104)
    at java.base/java.lang.reflect.Method.invoke(Method.java:565)
    at org.codehaus.plexus.classworlds.launcher.Launcher.launchEnhanced(Launcher.java:255)
    at org.codehaus.plexus.classworlds.launcher.Launcher.launch(Launcher.java:201)
    at org.codehaus.plexus.classworlds.launcher.Launcher.mainWithExitCode(Launcher.java:361)
    at org.codehaus.plexus.classworlds.launcher.Launcher.main(Launcher.java:314)
Caused by: java.lang.ClassNotFoundException: javax.inject.Provider
    at org.codehaus.plexus.classworlds.strategy.SelfFirstStrategy.loadClass(SelfFirstStrategy.java:42)
```

```
    at org.codehaus.plexus.classworlds.realm.ClassRealm.loadClass(ClassRealm.java:205)
    ... 9 more
PS C:\Users\Asus\feedback_portal> javac -version
javac 25.0.1
PS C:\Users\Asus\feedback_portal> javac -version
javac 25.0.1
PS C:\Users\Asus\feedback_portal> powershell -Command "mkdir -Force lib | Out-Null; Invoke-WebRequest -Uri 'https://repo1.maven.org/maven2/javax/servlet/javax.servlet-api/4.0.1/javax.servlet-api-4.0.1.jar' -OutFile 'lib\javax.servlet-api-4.0.1.jar'"
PS C:\Users\Asus\feedback_portal> powershell -Command "mkdir -Force target\classes; $cp = 'lib\javax.servlet-api-4.0.1.jar'; $src = Get-ChildItem -Recurse -File src\main\java | Where-Object { $_.Extension -eq '.java' } | ForEach-Object { $_.FullName } ; javac -d target\classes -cp $cp $src"
```

```
error: --class-path requires an argument
Usage: javac <options> <source files>
use --help for a list of possible options
```

```
PS C:\Users\Asus\feedback_portal> powershell -Command "Get-ChildItem -Path 'src\main\java' -Recurse -Filter '*.java' | Select-Object -ExpandProperty FullName > target\sources.txt; javac -d target\classes -cp 'lib\javax.servlet-api-4.0.1.jar' @target\sources.txt"
```

```
An input/output error occurred.
Consult the following stack trace for details.
java.nio.charset.MalformedInputException: Input length = 1
    at java.base/java.nio.charset.CoderResult.throwException(CoderResult.java:279)
    at java.base/sun.nio.cs.StreamDecoder.implRead(StreamDecoder.java:334)
    at java.base/sun.nio.cs.StreamDecoder.read(StreamDecoder.java:186)
    at java.base/java.io.InputStreamReader.read(InputStreamReader.java:183)
    at java.base/java.io.BufferedReader.fill(BufferedReader.java:166)
    at java.base/java.io.BufferedReader.read(BufferedReader.java:187)
    at jdk.internal.opt/jdk.internal.opt.CommandLine$Tokenizer.<init>(CommandLine.java:145)
    at jdk.internal.opt/jdk.internal.opt.CommandLine.loadCmdFileAndCloseReader(CommandLine.java:131)
    at jdk.internal.opt/jdk.internal.opt.CommandLine.loadCmdFile(CommandLine.java:124)
    at jdk.internal.opt/jdk.internal.opt.CommandLine.appendParsedCommandArgs(CommandLine.java:84)
    at jdk.internal.opt/jdk.internal.opt.CommandLine.parse(CommandLine.java:115)
    at jdk.compiler/com.sun.tools.javac.main.Main.compile(Main.java:224)
    at jdk.compiler/com.sun.tools.javac.main.Main.compile(Main.java:178)
    at jdk.compiler/com.sun.tools.javac.Main.compile(Main.java:66)
    at jdk.compiler/com.sun.tools.javac.Main.main(Main.java:52)
PS C:\Users\Asus\feedback_portal> powershell -Command "$cp = 'lib\javax.servlet-api-4.0.1.jar'; $files = Get-ChildItem -Path 'src\main\java' -Recurse -Filter '*.java' | ForEach-Object { $_.FullName }; if($files.Count -eq 0){ Write-Error 'No java files found'; exit 1 }; & javac -d target\classes -cp $cp $files"
= : The term '=' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the spelling of the name, or if a path was included, verify that the path is correct and try again.
At line:1 char:2
+ = 'lib\javax.servlet-api-4.0.1.jar'; = Get-ChildItem -Path 'src\mai ...
+ ~
+ CategoryInfo          : ObjectNotFound: (=:String) [], CommandNotFoundException
+ FullyQualifiedErrorId : CommandNotFoundException

= : The term '=' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the spelling of the name, or if a path was included, verify that the path is correct and try again.
At line:1 char:40
```



```
* FullyQualifiedErrorId : CommandNotFoundException

error: --class-path requires an argument
Usage: javac <options> <source files>
use --help for a list of possible options
PS C:\Users\Asus\feedback_portal> powershell -Command "Get-ChildItem -Path 'src/main/java' -Recurse -Filter '*.java' | Select-Object -ExpandProperty FullName | Out-File -FilePath 'target/sources.txt' -Encoding ascii; javac -d target\classes -cp 'lib\javax.servlet-api-4.0.1.jar' @target/sources.txt"
PS C:\Users\Asus\feedback_portal> powershell -Command "rm -Recurse -Force target\warroot -ErrorAction SilentlyContinue; mkdir -Force target\warroot; Copy-Item -Path src/main/webapp\* -Destination target\warroot -Recurse; mkdir -Force target\warroot\WEB-INF\classes; Copy-Item -Path target\classes\* -Destination target\warroot\WEB-INF\classes -Recurse; if(Test-Path target\feedback_portal.war){Remove-Item target\feedback_portal.war}; Set-Location target\warroot; jar -cf ../feedback_portal.war *; Set-Location -Path ../../"

Directory: C:\Users\Asus\feedback_portal\target

Mode                LastWriteTime         Length Name
----                -
d-----          11/14/2025  10:54 AM             warroot

Directory: C:\Users\Asus\feedback_portal\target\warroot\WEB-INF

Mode                LastWriteTime         Length Name
----                -
d-----          11/14/2025  10:54 AM             classes

PS C:\Users\Asus\feedback_portal> powershell -Command "Test-Path target\feedback_portal.war; if(Test-Path target\feedback_portal.war){ Get-Item target\feedback_portal.war | Select-Object Name, Length, LastWriteTime | Format-List } else { Write-Output 'WAR not created' }"
True

Name                : feedback_portal.war
Length               : 6550
LastWriteTime        : 11/14/2025 10:54:01 AM

PS C:\Users\Asus\feedback_portal> powershell -Command "Get-ChildItem -Path target | Where-Object { -not $_.PSIsContainer } | Format-List Name, Length, LastWriteTime"

PS C:\Users\Asus\feedback_portal> powershell -Command "dir target | Out-String -Width 200"

Directory: C:\Users\Asus\feedback_portal\target

Mode                LastWriteTime         Length Name
----                -
d-----          11/14/2025  10:53 AM             classes
d-----          11/14/2025  10:54 AM             warroot
-a-----          11/14/2025  10:54 AM          6550 feedback_portal.war
-a-----          11/14/2025  10:53 AM          239 sources.txt

PS C:\Users\Asus\feedback_portal>
```



## Project ▾

### ▾ feedback\_portal C:\Users\Asus\feedback\_portal

> .idea

.mvn

> lib

▾ src

▾ main

▾ java

▾ com.example

> servlet

> store

© feedback

resources

▾ webapp

▾ WEB-INF

</> web.xml

JSP index.jsp

▾ target

> classes

> warroot

feedback\_portal.war

sources.txt

🔒 .gitignore

m pom.xml

▾ External Libraries

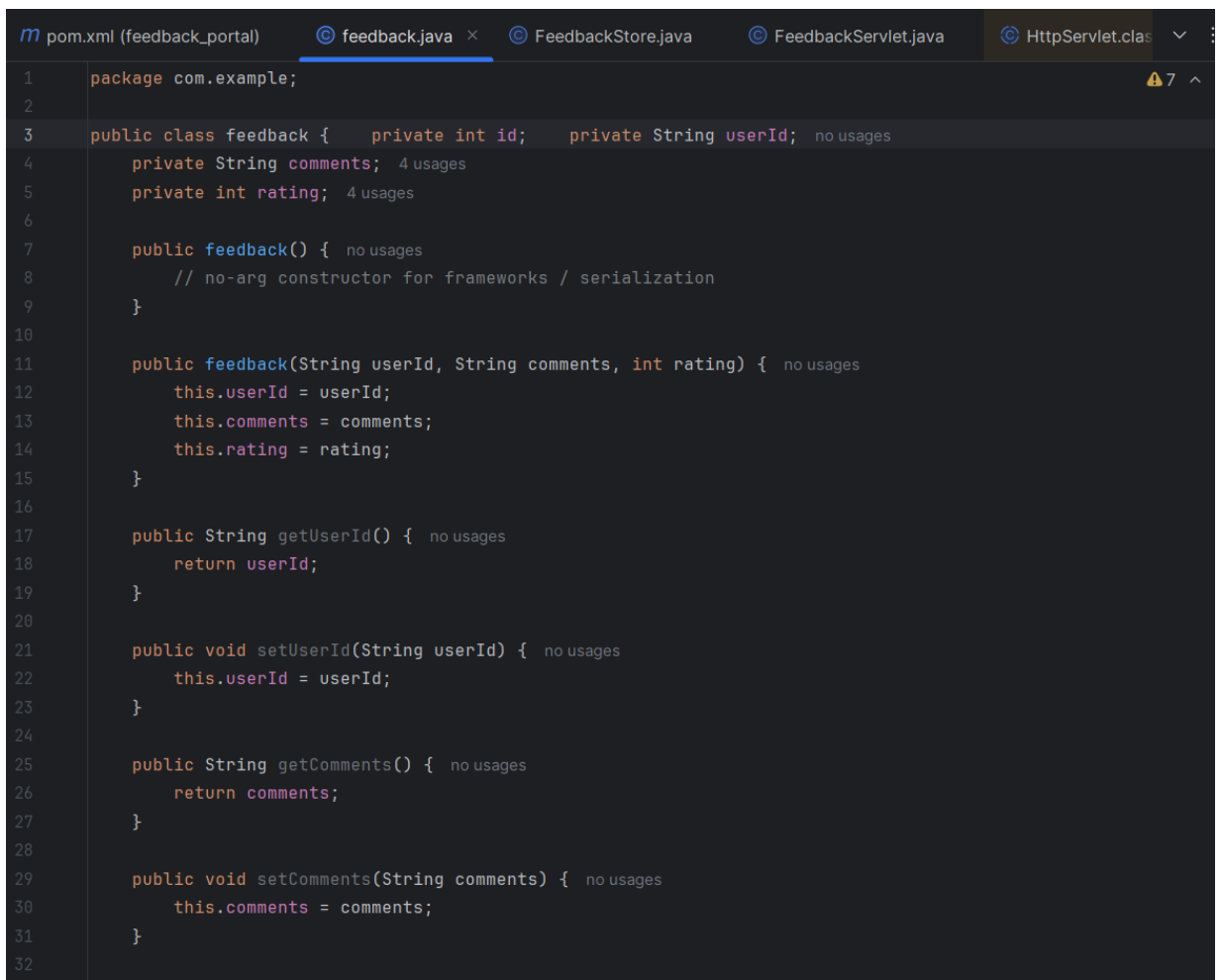
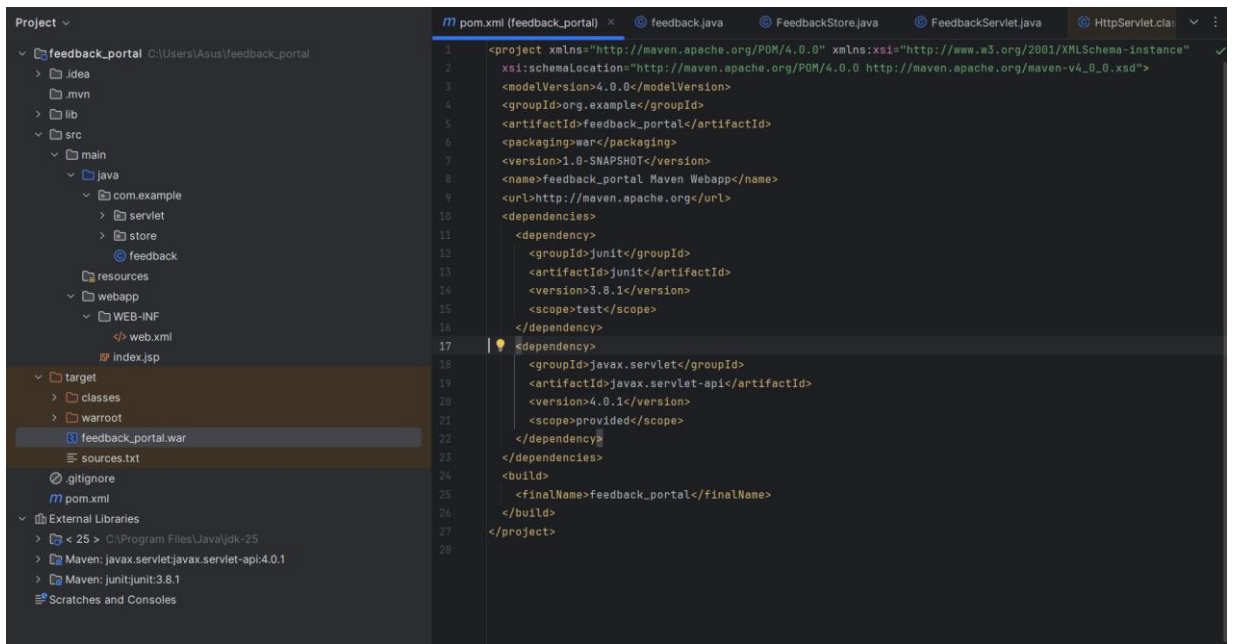
> ☕ < 25 > C:\Program Files\Java\jdk-25

> 📦 Maven: javax.servlet:javax.servlet-api:4.0.1

> 📦 Maven: junit:junit:3.8.1

☰ Scratches and Consoles







```
m pom.xml (feedback_portal)  feedback.java  FeedbackStore.java  FeedbackServlet.java  HttpServlet.class
3  public class feedback {  private int id;  private String userId;  no usages  7
31      }
32
33      public int getRating() {  no usages
34          return rating;
35      }
36
37      public void setRating(int rating) {  no usages
38          this.rating = rating;
39      }
40
41      public int getId() {  no usages
42          return id;
43      }
44
45      public void setId(int id) {  no usages
46          this.id = id;
47      }
48
49      // Simple JSON serializer used by the servlet (keeps dependencies minimal)
50      public String toJson() {  no usages
51          return "{\"id\":\"" + id + "\",\"userId\":\"" + escape(userId) + "\",\"comments\":\"" + escape(comments) + "\"}";
52      }
53
54      private String escape(String s) {  2 usages
55          if (s == null) return "";
56          return s.replace(target: "\\\"", replacement: "\\\"").replace(target: "\\", replacement: "\\").replace(target: "\\", replacement: "\\");
57      }
58  }
59
```



```
m pom.xml (feedback_portal)  feedback.java  FeedbackStore.java  FeedbackServlet.java  HttpServlet.class  ⌵  ⋮
1 package com.example.store;
2
3 > import ...
10
11 public class FeedbackStore { 3 usages
12     private final ConcurrentHashMap<Integer, feedback> map = new ConcurrentHashMap<>(); 3 usages
13     private final AtomicInteger idGen = new AtomicInteger( initialValue: 1); 1 usage
14
15     private static final FeedbackStore INSTANCE = new FeedbackStore(); 1 usage
16
17     private FeedbackStore() {} 1 usage
18
19 >     public static FeedbackStore getInstance() { return INSTANCE; }
22
23 @     public int add(feedback f) { no usages
24         int id = idGen.getAndIncrement();
25         f.setId(id);
26         map.put(id, f);
27         return id;
28     }
29
30 >     public feedback get(int id) { return map.get(id); }
33
34 >     public List<feedback> list() { return new ArrayList<>(map.values()); }
37
38
39
```

```
m pom.xml (feedback_portal)  feedback.java  FeedbackStore.java  FeedbackServlet.java  HttpServlet.class  </> web.xml  index.jsp
1 package com.example.servlet;
2
3 <⌵> import com.example.feedback;
4 import com.example.store.FeedbackStore;
5
6 import javax.servlet.ServletException;
7 import javax.servlet.http.HttpServlet;
8 import javax.servlet.http.HttpServletRequest;
9 import javax.servlet.http.HttpServletResponse;
10 import java.io.IOException;
11 import java.io.PrintWriter;
12 import java.util.List;
13
14 public class FeedbackServlet extends HttpServlet {
15     private final FeedbackStore store = FeedbackStore.getInstance(); 3 usages
16
17     @Override no usages
18 @Ⓢ@⌵~ protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
19     req.setCharacterEncoding("UTF-8");
20     String userId = req.getParameter( s: "userId");
21     String comments = req.getParameter( s: "comments");
22     String ratingParam = req.getParameter( s: "rating");
23
24     // Basic validation
25 <⌵> if (isBlank(userId) || isBlank(comments) || isBlank(ratingParam)) {
26     sendError(resp, HttpServletResponse.SC_BAD_REQUEST, message: "userId, comments and rating are required and cannot be empty");
27     return;
28 }
29
30     int rating;
31 <⌵> try {
32     rating = Integer.parseInt(ratingParam);
33 } catch (NumberFormatException e) {
```





```
pom.xml (feedback_portal)  feedback.java  FeedbackStore.java  FeedbackServlet.java  HttpServlet.class  web.xml  index.jsp

14 public class FeedbackServlet extends HttpServlet {
18     protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
36     }
37
38     if (rating < 1 || rating > 5) {
39         sendError(resp, HttpServletResponse.SC_BAD_REQUEST, message: "rating must be between 1 and 5");
40         return;
41     }
42
43     feedback f = new feedback(userId.trim(), comments.trim(), rating);
44     int id = store.add(f);
45
46     resp.setStatus(HttpServletResponse.SC_CREATED);
47     resp.setContentType("application/json;charset=UTF-8");
48     PrintWriter out = resp.getWriter();
49     out.print(f.toJson());
50     out.flush();
51 }
52
53 @Override no usages
54 @ @ protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
55     String idParam = req.getParameter("id");
56     resp.setContentType("application/json;charset=UTF-8");
57     PrintWriter out = resp.getWriter();
58
59     if (isBlank(idParam)) {
60         List<feedback> list = store.list();
61         out.print("[");
62         for (int i = 0; i < list.size(); i++) {
63             if (i > 0) out.print(',');
64             out.print(list.get(i).toJson());
65         }
66         out.print("]");
67     }
68 }
```

```
pom.xml (feedback_portal)  feedback.java  FeedbackStore.java  FeedbackServlet.java  HttpServlet.class  web.xml  index.jsp

14 public class FeedbackServlet extends HttpServlet {
54     protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
66         out.print("");
67         out.flush();
68         return;
69     }
70
71     int id;
72     try {
73         id = Integer.parseInt(idParam);
74     } catch (NumberFormatException e) {
75         sendError(resp, HttpServletResponse.SC_BAD_REQUEST, message: "id must be an integer");
76         return;
77     }
78
79     feedback f = store.get(id);
80     if (f == null) {
81         sendError(resp, HttpServletResponse.SC_NOT_FOUND, message: "feedback not found");
82         return;
83     }
84
85     out.print(f.toJson());
86     out.flush();
87 }
88
89 > private boolean isBlank(String s) { return s == null || s.trim().isEmpty(); }
90
91
92 @ private void sendError(HttpServletResponse resp, int status, String message) throws IOException { 5 usages
94     resp.setStatus(status);
95     resp.setContentType("application/json;charset=UTF-8");
96     PrintWriter out = resp.getWriter();
97     out.print("{\"error\":\"\" + escape(message) + \"\"}");
98     out.flush();
99 }
```



```
pom.xml (feedback_portal)  feedback.java  FeedbackStore.java  FeedbackServlet.java  HttpServlet.class  web.xml  index.jsp

14 public class FeedbackServlet extends HttpServlet {
15     protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
16
17         if (f == null) {
18             sendError(resp, HttpServletResponse.SC_NOT_FOUND, message: "feedback not found");
19             return;
20         }
21
22         out.print(f.toJson());
23         out.flush();
24     }
25
26     private boolean isBlank(String s) { return s == null || s.trim().isEmpty(); }
27
28     @ private void sendError(HttpServletResponse resp, int status, String message) throws IOException { 5 usages
29         resp.setStatus(status);
30         resp.setContentType("application/json;charset=UTF-8");
31         PrintWriter out = resp.getWriter();
32         out.print("{\"error\": \"" + escape(message) + "\"}");
33         out.flush();
34     }
35
36     @ private String escape(String s) { 1 usage
37         if (s == null) return "";
38         return s.replace( target: "\\", replacement: "\\\"").replace( target: "\n", replacement: "\\n").replace( target: "\r",
39         }
40     }
41 }
```

```
pom.xml (feedback_portal)  feedback.java  FeedbackStore.java  FeedbackServlet.java  HttpServlet.class  web.xml  index.jsp

Decompiled .class file, bytecode version: 52.0 (Java 8)  Download Sources  Choos

1 //
2 // Source code recreated from a .class file by IntelliJ IDEA
3 // (powered by FernFlower decompiler)
4 //
5
6 package javax.servlet.http;
7
8 import java.io.IOException;
9 import java.lang.reflect.Method;
10 import java.text.MessageFormat;
11 import java.util.Enumeration;
12 import java.util.ResourceBundle;
13 import javax.servlet.GenericServlet;
14 import javax.servlet.ServletException;
15 import javax.servlet.ServletOutputStream;
16 import javax.servlet.ServletRequest;
17 import javax.servlet.ServletResponse;
18
19 @ public abstract class HttpServlet extends GenericServlet { 1 inheritor
20     private static final String METHOD_DELETE = "DELETE";
21     private static final String METHOD_HEAD = "HEAD";
22     private static final String METHOD_GET = "GET";
23     private static final String METHOD_OPTIONS = "OPTIONS";
24     private static final String METHOD_POST = "POST";
25     private static final String METHOD_PUT = "PUT";
26     private static final String METHOD_TRACE = "TRACE";
27     private static final String HEADER_IFMODSINCE = "If-Modified-Since";
28     private static final String HEADER_LASTMOD = "Last-Modified";
29     private static final String LSTRING_FILE = "javax.servlet.http.LocalStrings";
30     private static ResourceBundle lStrings = ResourceBundle.getBundle( baseName: "javax.servlet.http.LocalStrings");
31 }
```



```
m pom.xml (feedback_portal) feedback.java FeedbackStore.java FeedbackServlet.java HttpServlet.class x web.xml index.jsp
Decompiled .class file, bytecode version: 52.0 (Java 8) Download Sources Choose Sources
19 public abstract class HttpServlet extends GenericServlet { 1 inheritor
32 @ protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException { 1 override
33     String protocol = req.getProtocol();
34     String msg = lStrings.getString( key: "http.method_get_not_supported");
35     if (protocol.endsWith("1.1")) {
36         resp.sendError( 405, msg);
37     } else {
38         resp.sendError( 400, msg);
39     }
40 }
41 }
42
43 protected long getLastModified(HttpServletRequest req) {
44     return -1L;
45 }
46
47 protected void doHead(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
48     NoBodyResponse response = new NoBodyResponse(resp);
49     this.doGet(req, response);
50     response.setContentLength();
51 }
52
53 @ protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException { 1 override
54     String protocol = req.getProtocol();
55     String msg = lStrings.getString( key: "http.method_post_not_supported");
56     if (protocol.endsWith("1.1")) {
57         resp.sendError( 405, msg);
58     } else {
59         resp.sendError( 400, msg);
60 }
61 }
```

```
m pom.xml (feedback_portal) feedback.java FeedbackStore.java FeedbackServlet.java HttpServlet.class x web.xml index.jsp
Decompiled .class file, bytecode version: 52.0 (Java 8) Download Sources Choose Sources...
19 public abstract class HttpServlet extends GenericServlet { 1 inheritor
62 }
63
64 protected void doPut(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
65     String protocol = req.getProtocol();
66     String msg = lStrings.getString( key: "http.method_put_not_supported");
67     if (protocol.endsWith("1.1")) {
68         resp.sendError( 405, msg);
69     } else {
70         resp.sendError( 400, msg);
71     }
72 }
73
74
75 protected void doDelete(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
76     String protocol = req.getProtocol();
77     String msg = lStrings.getString( key: "http.method_delete_not_supported");
78     if (protocol.endsWith("1.1")) {
79         resp.sendError( 405, msg);
80     } else {
81         resp.sendError( 400, msg);
82     }
83 }
84
85
86 @ private Method[] getAllDeclaredMethods(Class<? extends HttpServlet> c) {
87     Class<?> clazz = c;
88
89     Method[] allMethods;
90     for (allMethods = null; !clazz.equals(HttpServlet.class); clazz = clazz.getSuperclass()) {
91         Method[] thisMethods = clazz.getDeclaredMethods();
92     }
93 }
```



```
m pom.xml (feedback_portal) feedback.java FeedbackStore.java FeedbackServlet.java HttpServlet.class x web.xml index.jsp
Decompiled .class file, bytecode version: 52.0 (Java 8) Download Sources Choose Sources
19 public abstract class HttpServlet extends GenericServlet { 1 inheritor
86 private Method[] getAllDeclaredMethods(Class<? extends HttpServlet> c) {
93     Method[] subClassMethods = allMethods;
94     allMethods = new Method[thisMethods.length + allMethods.length];
95     System.arraycopy(thisMethods, 0, allMethods, 0, thisMethods.length);
96     System.arraycopy(subClassMethods, 0, allMethods, thisMethods.length, subClassMethods.length);
97 } else {
98     allMethods = thisMethods;
99 }
100 }
101
102 return allMethods != null ? allMethods : new Method[0];
103 }
104
105 protected void doOptions(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
106     Method[] methods = this.getAllDeclaredMethods(this.getClass());
107     boolean ALLOW_GET = false;
108     boolean ALLOW_HEAD = false;
109     boolean ALLOW_POST = false;
110     boolean ALLOW_PUT = false;
111     boolean ALLOW_DELETE = false;
112     boolean ALLOW_TRACE = true;
113     boolean ALLOW_OPTIONS = true;
114
115     for (int i = 0; i < methods.length; ++i) {
116         String methodName = methods[i].getName();
117         if (methodName.equals("doGet")) {
118             ALLOW_GET = true;
119             ALLOW_HEAD = true;
120         } else if (methodName.equals("doPost")) {
121             ALLOW_POST = true;
```

```
m pom.xml (feedback_portal) feedback.java FeedbackStore.java FeedbackServlet.java HttpServlet.class x web.xml index.jsp
Decompiled .class file, bytecode version: 52.0 (Java 8) Download Sources
19 public abstract class HttpServlet extends GenericServlet { 1 inheritor
105 protected void doOptions(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
123     ALLOW_PUT = true;
124     } else if (methodName.equals("doDelete")) {
125         ALLOW_DELETE = true;
126     }
127 }
128
129 StringBuilder allow = new StringBuilder();
130 if (ALLOW_GET) {
131     allow.append("GET");
132 }
133
134 if (ALLOW_HEAD) {
135     if (allow.length() > 0) {
136         allow.append(", ");
137     }
138     allow.append("HEAD");
139 }
140
141 if (ALLOW_POST) {
142     if (allow.length() > 0) {
143         allow.append(", ");
144     }
145     allow.append("POST");
146 }
147
148 if (ALLOW_PUT) {
149     if (allow.length() > 0) {
```



```
pom.xml (feedback_portal) feedback.java FeedbackStore.java FeedbackServlet.java HttpServlet.class x web.xml index.jsp
Decompiled .class file, bytecode version: 52.0 (Java 8) Download Sources Choose Source

19 public abstract class HttpServlet extends GenericServlet { 1 inheritor
105 protected void doOptions(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
156 }
157
158 if (ALLOW_DELETE) {
159     if (allow.length() > 0) {
160         allow.append(" ");
161     }
162
163     allow.append("DELETE");
164 }
165
166 if (ALLOW_TRACE) {
167     if (allow.length() > 0) {
168         allow.append(" ");
169     }
170
171     allow.append("TRACE");
172 }
173
174 if (ALLOW_OPTIONS) {
175     if (allow.length() > 0) {
176         allow.append(" ");
177     }
178
179     allow.append("OPTIONS");
180 }
181
182 resp.setHeader("Allow", allow.toString());
183 }
184
```

```
pom.xml (feedback_portal) feedback.java FeedbackStore.java FeedbackServlet.java HttpServlet.class x web.xml index.jsp
Decompiled .class file, bytecode version: 52.0 (Java 8) Download Sources Choose Source

19 public abstract class HttpServlet extends GenericServlet { 1 inheritor
185 protected void doTrace(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
186     String CRLF = "\r\n";
187     StringBuilder buffer = (new StringBuilder("TRACE ")).append(req.getRequestURI()).append(" ").append(req.getProtocol());
188     Enumeration<String> reqHeaderEnum = req.getHeaderNames();
189
190     while (reqHeaderEnum.hasMoreElements()) {
191         String headerName = (String) reqHeaderEnum.nextElement();
192         buffer.append(CRLF).append(headerName).append(": ").append(req.getHeader(headerName));
193     }
194
195     buffer.append(CRLF);
196     int responseLength = buffer.length();
197     resp.setContentType("message/http");
198     resp.setContentLength(responseLength);
199     ServletOutputStream out = resp.getOutputStream();
200     out.print(buffer.toString());
201 }
202
203 protected void service(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
204     String method = req.getMethod();
205     if (method.equals("GET")) {
206         long lastModified = this.getLastModified(req);
207         if (lastModified == -1L) {
208             this.doGet(req, resp);
209         } else {
210             long ifModifiedSince = req.getDateHeader("If-Modified-Since");
211             if (ifModifiedSince < lastModified) {
212                 this.maybeSetLastModified(resp, lastModified);
213                 this.doGet(req, resp);
214             } else {
```



```
pom.xml (feedback_portal)  feedback.java  FeedbackStore.java  FeedbackServlet.java  HttpServlet.class  web.xml  index.jsp
Decompiled .class file, bytecode version: 52.0 (Java 8)  Download Sources  Choose

19  public abstract class HttpServlet extends GenericServlet { 1 inheritor
203  protected void service(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
220      this.maybeSetLastModified(resp, lastModified);
221      this.doHead(req, resp);
222      } else if (method.equals("POST")) {
223      this.doPost(req, resp);
224      } else if (method.equals("PUT")) {
225      this.doPut(req, resp);
226      } else if (method.equals("DELETE")) {
227      this.doDelete(req, resp);
228      } else if (method.equals("OPTIONS")) {
229      this.doOptions(req, resp);
230      } else if (method.equals("TRACE")) {
231      this.doTrace(req, resp);
232      } else {
233      String errMsg = IStrings.getString(key: "http.method_not_implemented");
234      Object[] errArgs = new Object[1];
235      errArgs[0] = method;
236      errMsg = MessageFormat.format(errMsg, errArgs);
237      resp.sendError(405, errMsg);
238      }
239  }
240  }
241
242  @ private void maybeSetLastModified(HttpServletResponse resp, long lastModified) {
243      if (!resp.containsHeader("Last-Modified")) {
244      if (lastModified >= 0L) {
245      resp.setDateHeader("Last-Modified", lastModified);
246      }
247      }
248  }
```

```
239  }
240  }
241
242  @ private void maybeSetLastModified(HttpServletResponse resp, long lastModified) {
243      if (!resp.containsHeader("Last-Modified")) {
244      if (lastModified >= 0L) {
245      resp.setDateHeader("Last-Modified", lastModified);
246      }
247      }
248  }
249  }
250
251  @ public void service(ServletRequest req, ServletResponse res) throws ServletException, IOException {
252      if (req instanceof HttpServletRequest && res instanceof HttpServletResponse) {
253      HttpServletRequest request = (HttpServletRequest) req;
254      HttpServletResponse response = (HttpServletResponse) res;
255      this.service(request, response);
256      } else {
257      throw new ServletException("non-HTTP request or response");
258      }
259  }
260  }
261  }
```



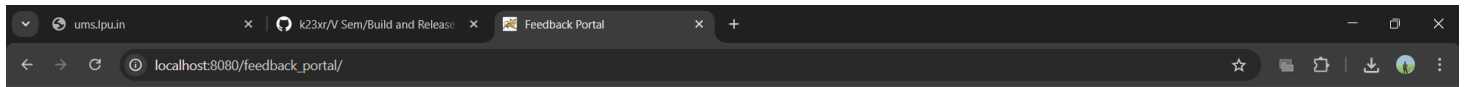


```
m pom.xml (feedback_portal) feedback.java FeedbackStore.java FeedbackServlet.java HttpServlet.class web.xml index.jsp
1 <!DOCTYPE web-app PUBLIC
2 "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
3 "http://java.sun.com/dtd/web-app_2_3.dtd" >
4
5 <web-app>
6   <display-name>Archetype Created Web Application</display-name>
7
8   <servlet>
9     <servlet-name>FeedbackServlet</servlet-name>
10    <servlet-class>com.example.servlet.FeedbackServlet</servlet-class>
11  </servlet>
12
13  <servlet-mapping>
14    <servlet-name>FeedbackServlet</servlet-name>
15    <url-pattern>/feedback</url-pattern>
16  </servlet-mapping>
17
18 </web-app>
19
```

```
m pom.xml (feedback_portal) feedback.java FeedbackStore.java FeedbackServlet.java HttpServlet.class web.xml index.jsp
1 <html>
2 <head>
3   <meta charset="UTF-8" />
4   <title>Feedback Portal</title>
5 </head>
6 <body>
7   <h2>Feedback Portal</h2>
8   <form id="feedbackForm">
9     <label>User ID: <input type="text" name="userId" id="userId" /></label><br/>
10    <label>Comments: <br/><textarea name="comments" id="comments" rows="4" cols="50"></textarea></label><br/>
11    <label>Rating: <input type="number" name="rating" id="rating" min="1" max="5" /></label><br/>
12    <button type="submit">Submit Feedback</button>
13  </form>
14
15  <button id="refresh">Refresh Feedback List</button>
16  <div id="message" style="color: red;"></div>
17  <pre id="list"></pre>
18
19  <script>
20    document.getElementById('feedbackForm').addEventListener('submit', function(e){
21      e.preventDefault();
22      document.getElementById('message').textContent = '';
23      var form = e.target;
24      var data = new URLSearchParams();
25      data.append('userId', form.userId.value);
26      data.append('comments', form.comments.value);
27      data.append('rating', form.rating.value);
28
29      fetch(window.location.pathname.replace(/[/]*$/, '') + 'feedback', {
30        method: 'POST',
31        body: data
32      }).then(function(resp){
33        if (!resp.ok) return resp.json().then(function(i){ throw i; });
```



```
m pom.xml (feedback_portal)  feedback.java  FeedbackStore.java  FeedbackServlet.java  HttpServlet.class  web.xml  index.jsp x
32  }).then(function(resp){
33      if (!resp.ok) return resp.json().then(function(j){ throw j; });
34      return resp.json();
35  }).then(function(json){
36      document.getElementById('message').style.color = 'green';
37      document.getElementById('message').textContent = 'Saved with id ' + json.id;
38      loadList();
39      form.userId.value=''; form.comments.value=''; form.rating.value='';
40  }).catch(function(err){
41      document.getElementById('message').style.color = 'red';
42      document.getElementById('message').textContent = err && err.error ? err.error : 'Error submitting feedback';
43  });
44  });
45
46  function loadList(){
47      fetch(window.location.pathname.replace(/[/]*$/, '') + 'feedback').then(function(resp){
48          return resp.json();
49      }).then(function(json){
50          document.getElementById('list').textContent = JSON.stringify(json, null, 2);
51      }).catch(function(){
52          document.getElementById('list').textContent = 'Could not load feedback list.';
53      });
54  }
55
56  document.getElementById('refresh').addEventListener('click', loadList);
57  // load on open
58  loadList();
59  </script>
60  </body>
61  </html>
62
```



## Feedback Portal

User ID:

Comments:

Rating:

Could not load feedback list.