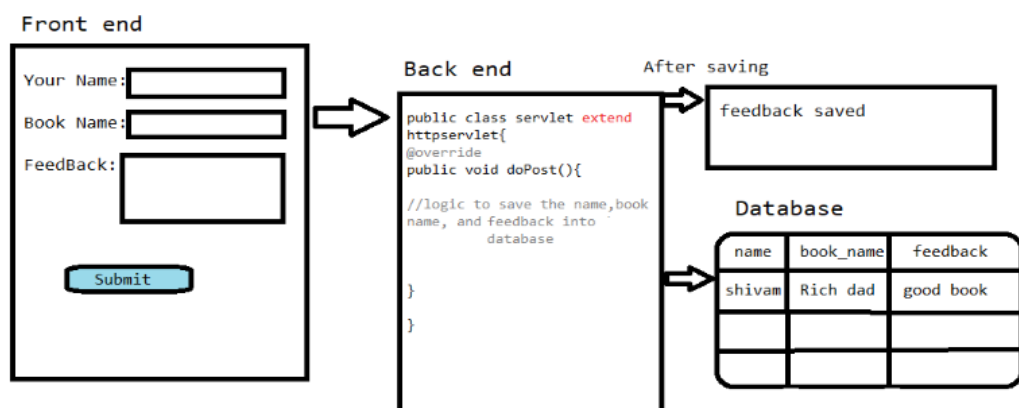


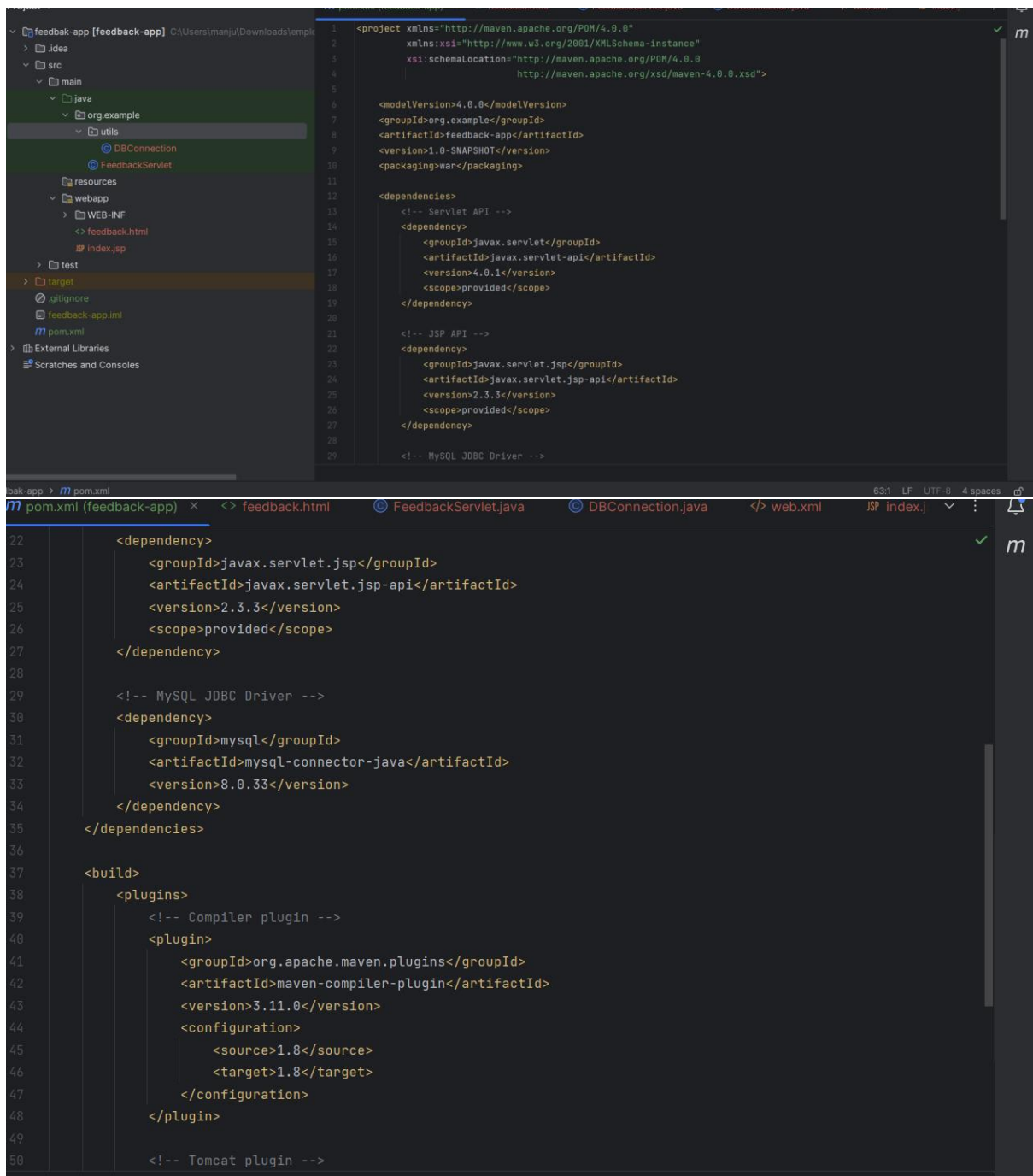
Task Solution

Q2. You are tasked with developing a web application that allows users to submit their feedback through a web form. The feedback data should be stored in a MySQL database, and upon successful storage, the application should respond with "feedback saved!"

Steps :

- The first restful URL should display the html page where the user can enter name ,Book name and feedback . and user can click one submit button.
- Create a one servlet class (e.g., FeedbackServlet) that extends HttpServlet
- override doPost method and store the feedback to the mysql (use Jdbc API to store Information)
- In a response display "feedback saved" .





```
pom.xml (feedback-app)  <> feedback.html x  © FeedbackServlet.java  © DBConnection.java  </> web.xml  JSP index.j  ⚠ 5 ^ v  m

<!DOCTYPE html>
<html>
<head>
  <title>Book Feedback Form</title>
  <style>
    body {
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh; /* Full viewport height */
      font-family: Arial, sans-serif;
      background-color: #f5f5f5;
    }

    form {
      background-color: #fff;
      padding: 30px;
      border-radius: 10px;
      box-shadow: 0px 0px 10px rgba(0,0,0,0.1);
      width: 300px;
    }

    h2 {
      text-align: center;
      margin-bottom: 20px;
    }

    label {
      display: block;
    }
  </style>
</head>
<body>
  <h2>Book Feedback Form</h2>
  <div>
    <input type="text" value="Name" />
    <input type="text" value="Email" />
    <input type="text" value="Phone" />
    <input type="text" value="Address" />
    <input type="text" value="City" />
    <input type="text" value="State" />
    <input type="text" value="Zip" />
    <input type="text" value="Feedback" />
    <input type="submit" value="Submit" />
  </div>
</body>
</html>
```

nl > body > form > label

```
m pom.xml (feedback-app)  <> feedback.html x  © FeedbackServlet.java  © DBConnection.java  </> web.xml  JSP index.j  ⚠ 5 ^ v  m

25      margin-bottom: 20px;
26    }
27
28    label {
29      display: block;
30      margin-bottom: 5px;
31      font-weight: bold;
32    }
33
34    input[type="text"], textarea {
35      width: 100%;
36      padding: 8px;
37      margin-bottom: 15px;
38      border: 1px solid #ccc;
39      border-radius: 5px;
40      box-sizing: border-box;
41    }
42
43    input[type="submit"] {
44      width: 100%;
45      padding: 10px;
46      background-color: #4CAF50;
47      color: white;
48      border: none;
49      border-radius: 5px;
50      cursor: pointer;
51    }
52
53    input[type="submit"]:hover {
54      background-color: #3e8e41;
55    }
56  }
57</div>
58</body>
59</html>
```

html > body > form > label

```
m pom.xml (feedback-app)  <> feedback.html x  FeedbackServlet.java  DBConnection.java  </> web.xml  JSP index.j  5  m
51      }
52
53      input[type="submit"]:hover {
54          background-color: #45a049;
55      }
56  </style>
57 </head>
58 <body>
59 <form action="submitFeedback" method="post">
60     <h2>Book Feedback Form</h2>
61     <label>Your Name:</label>
62     <input type="text" name="name" required>
63
64     <label>Book Name:</label>
65     <input type="text" name="book" required>
66
67     <label>Your Feedback:</label>
68     <textarea name="feedback" required></textarea>
69
70     <input type="submit" value="Submit">
71 </form>
72 </body>
73 </html>
74
```

```
m pom.xml (feedback-app)  <> feedback.html  FeedbackServlet.java  DBConnection.java  <> web.xml  JSP index.jsp  m
1  package org.example;
2
3  import org.example.utils.DBConnection;
4
5  import javax.servlet.ServletException;
6  import javax.servlet.annotation.WebServlet;
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.sql.Connection;
12 import java.sql.PreparedStatement;
13
14 @WebServlet("/submitFeedback")
15 public class FeedbackServlet extends HttpServlet {
16
17     1 usage
18     @Override
19     protected void doPost(HttpServletRequest request, HttpServletResponse response)
20         throws ServletException, IOException {
21
22         String name = request.getParameter( name: "name");
23         String book = request.getParameter( name: "book");
24         String feedback = request.getParameter( name: "feedback");
25
26         // Save to MySQL
27         try (Connection conn = DBConnection.getConnection()) {
28             String sql = "INSERT INTO feedback (name, book_name, feedback) VALUES (?, ?, ?)";
29             PreparedStatement stmt = conn.prepareStatement(sql);
30             stmt.setString( parameterIndex: 1, name);
31
32             String name = request.getParameter( name: "name");
33             String book = request.getParameter( name: "book");
34             String feedback = request.getParameter( name: "feedback");
35
36             // Save to MySQL
37             try (Connection conn = DBConnection.getConnection()) {
38                 String sql = "INSERT INTO feedback (name, book_name, feedback) VALUES (?, ?, ?)";
39                 PreparedStatement stmt = conn.prepareStatement(sql);
40                 stmt.setString( parameterIndex: 1, name);
41                 stmt.setString( parameterIndex: 2, book);
42                 stmt.setString( parameterIndex: 3, feedback);
43                 stmt.executeUpdate();
44             } catch (Exception e) {
45                 e.printStackTrace();
46             }
47
48             // Send data to JSP
49             request.setAttribute( name: "name", name);
50             request.setAttribute( name: "book", book);
51             request.setAttribute( name: "feedback", feedback);
52
53             request.getRequestDispatcher( path: "index.jsp").forward(request, response);
54         }
55     }
56 }
```

```
m pom.xml (feedback-app) <> feedback.html FeedbackServlet.java DBConnection.java x </> web.xml JSP index.j v m
3 import java.sql.Connection;
4 import java.sql.DriverManager;
5
6 2 usages
7 public class DBConnection {
8     1 usage
9     private static final String URL = "jdbc:mysql://localhost:3306/feedback_db";
10    1 usage
11    private static final String USER = "root"; // change to your MySQL username
12    1 usage
13    private static final String PASSWORD = "manjula"; // change to your MySQL password
14
15    1 usage
16    public static Connection getConnection() {
17        Connection conn = null;
18        try {
19            Class.forName( className: "com.mysql.cj.jdbc.Driver");
20            conn = DriverManager.getConnection(URL, USER, PASSWORD);
21        } catch (Exception e) {
22            e.printStackTrace();
23        }
24        return conn;
25    }
26 }
```

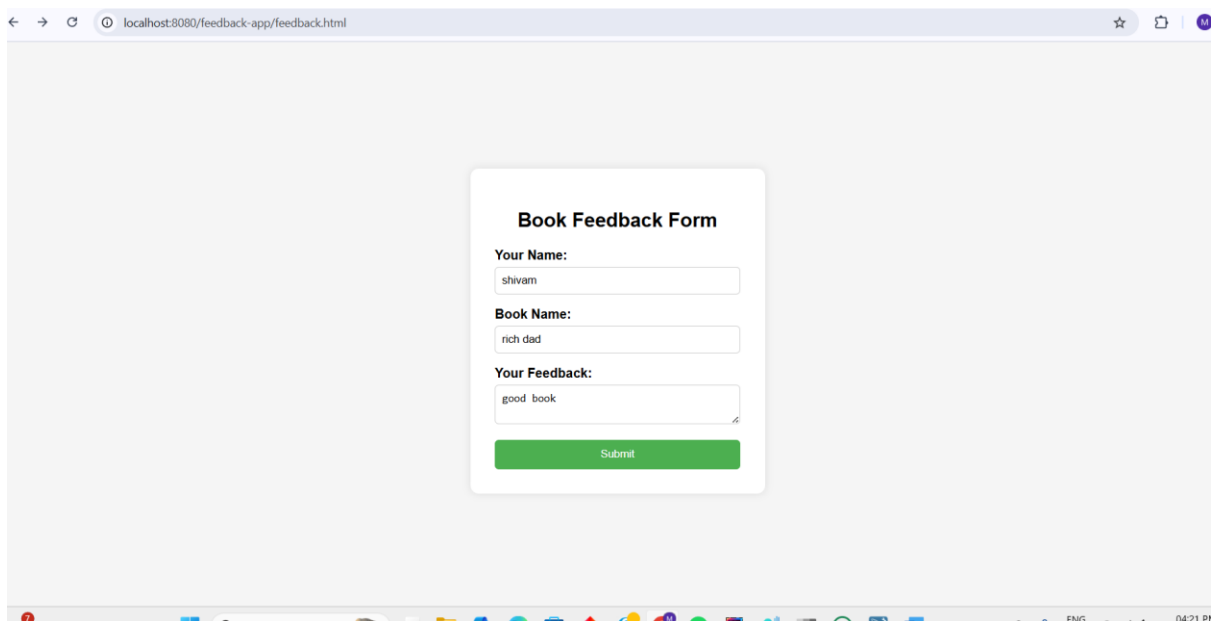
```
pom.xml (feedback-app) <> feedback.html FeedbackServlet.java DBConnection.java </> web.xml x JSP index
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
    http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"
  1
  version="3.1">

  <display-name>Feedback App</display-name>

</web-app>
```

```
1 <%@ page contentType="text/html; charset=UTF-8" language="java" %>
2 <!DOCTYPE html>
3 <html>
4 <head>
5     <title>Feedback Saved</title>
6     <style>
7         body {
8             display: flex;
9             justify-content: center;
10            align-items: center;
11            height: 100vh;
12            font-family: Arial, sans-serif;
13        }
14        h2 {
15            text-align: center;
16        }
17    </style>
18 </head>
19 <body>
20     <h2>Feedback saved</h2>
21 </body>
22 </html>
23 |
```

Output:



Feedback saved

```
mysql> SELECT * FROM feedback;
```

id	name	book_name	feedback
1	Alice	Java Basics	This book is really helpful!
2	Manjula	java	ddd
3	john	java	good
4	manju	java	good

```
4 rows in set (0.00 sec)
```

```
mysql> DELETE FROM feedback;
```

```
Query OK, 4 rows affected (0.01 sec)
```

```
mysql> SELECT * FROM feedback;
```

id	name	book_name	feedback
5	shivam	rich dad	good book

```
1 row in set (0.00 sec)
```

```
mysql>
```