

Assignment No :- 6

#AddStudentServlet.java

```
package com.student;

import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class AddStudentServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        String name = request.getParameter("name");
        String email = request.getParameter("email");
        String course = request.getParameter("course");

        Student s = new Student();
        s.setName(name);
        s.setEmail(email);
        s.setCourse(course);

        try {
            StudentDAO.addStudent(s);
        } catch (Exception e) {
            e.printStackTrace();
        }

        response.sendRedirect("viewStudents.jsp");
    }
}
```

#DeleteStudentServlet.java

```
package com.student;

import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class DeleteStudentServlet extends HttpServlet {
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        int id = Integer.parseInt(request.getParameter("id"));

        try {
            StudentDAO.deleteStudent(id);
        }
    }
}
```

```

    } catch (Exception e) {
        e.printStackTrace();
    }

    response.sendRedirect("viewStudents.jsp");
}
}

```

#Student.java

```

package com.student;

public class Student {
    private int id;
    private String name;
    private String email;
    private String course;

    // Getters and setters
    public int getId() { return id; }
    public void setId(int id) { this.id = id; }

    public String getName() { return name; }
    public void setName(String name) { this.name = name; }

    public String getEmail() { return email; }
    public void setEmail(String email) { this.email = email; }

    public String getCourse() { return course; }
    public void setCourse(String course) { this.course = course; }
}

```

#StudentDAO.java

```

package com.student;

import java.sql.*;
import java.util.*;

public class StudentDAO {
    private static Connection getConnection() throws Exception {
        Class.forName("com.mysql.cj.jdbc.Driver");
        return DriverManager.getConnection("jdbc:mysql://localhost:3306/studentdb", "root",
"raj@1415");
    }

    public static int addStudent(Student s) throws Exception {
        Connection con = getConnection();
    }
}

```

```

        PreparedStatement ps = con.prepareStatement("INSERT INTO students(name, email, course)
VALUES (?, ?, ?)");
        ps.setString(1, s.getName());
        ps.setString(2, s.getEmail());
        ps.setString(3, s.getCourse());
        int result = ps.executeUpdate();
        con.close();
        return result;
    }

    public static List<Student> getAllStudents() throws Exception {
        List<Student> list = new ArrayList<>();
        Connection con = getConnection();
        Statement st = con.createStatement();
        ResultSet rs = st.executeQuery("SELECT * FROM students");

        while (rs.next()) {
            Student s = new Student();
            s.setId(rs.getInt("id"));
            s.setName(rs.getString("name"));
            s.setEmail(rs.getString("email"));
            s.setCourse(rs.getString("course"));
            list.add(s);
        }

        con.close();
        return list;
    }

    public static void deleteStudent(int id) throws Exception {
        Connection con = getConnection();
        PreparedStatement ps = con.prepareStatement("DELETE FROM students WHERE id = ?");
        ps.setInt(1, id);
        ps.executeUpdate();
        con.close();
    }
}

```

#index.jsp

```

<html>
<head><title>Student App</title></head>
<body>
    <h2>Welcome to Student Database App</h2>
    <a href="addStudent.jsp">Add Student</a> |
    <a href="viewStudents.jsp">View Students</a>
</body>
</html>

```

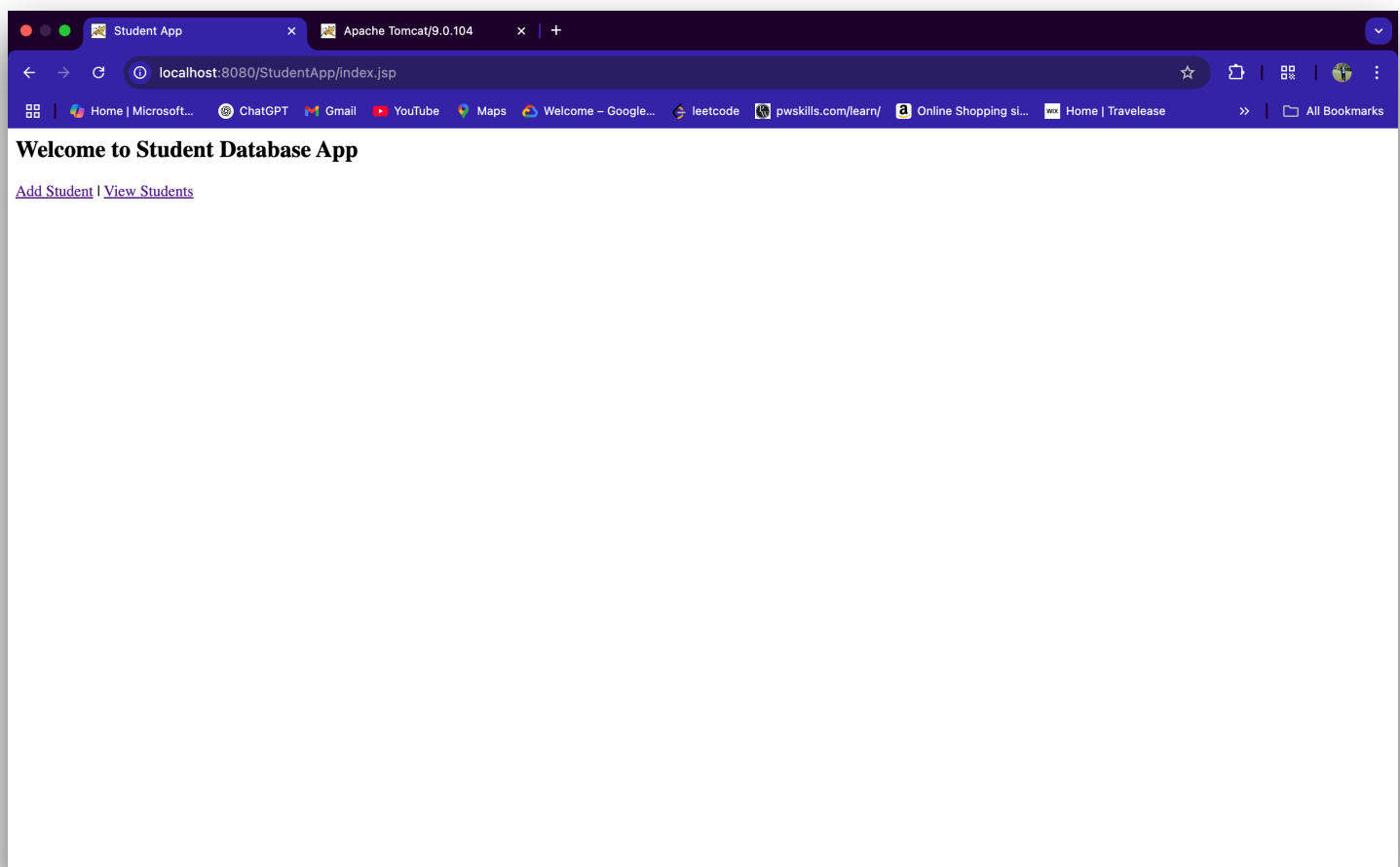
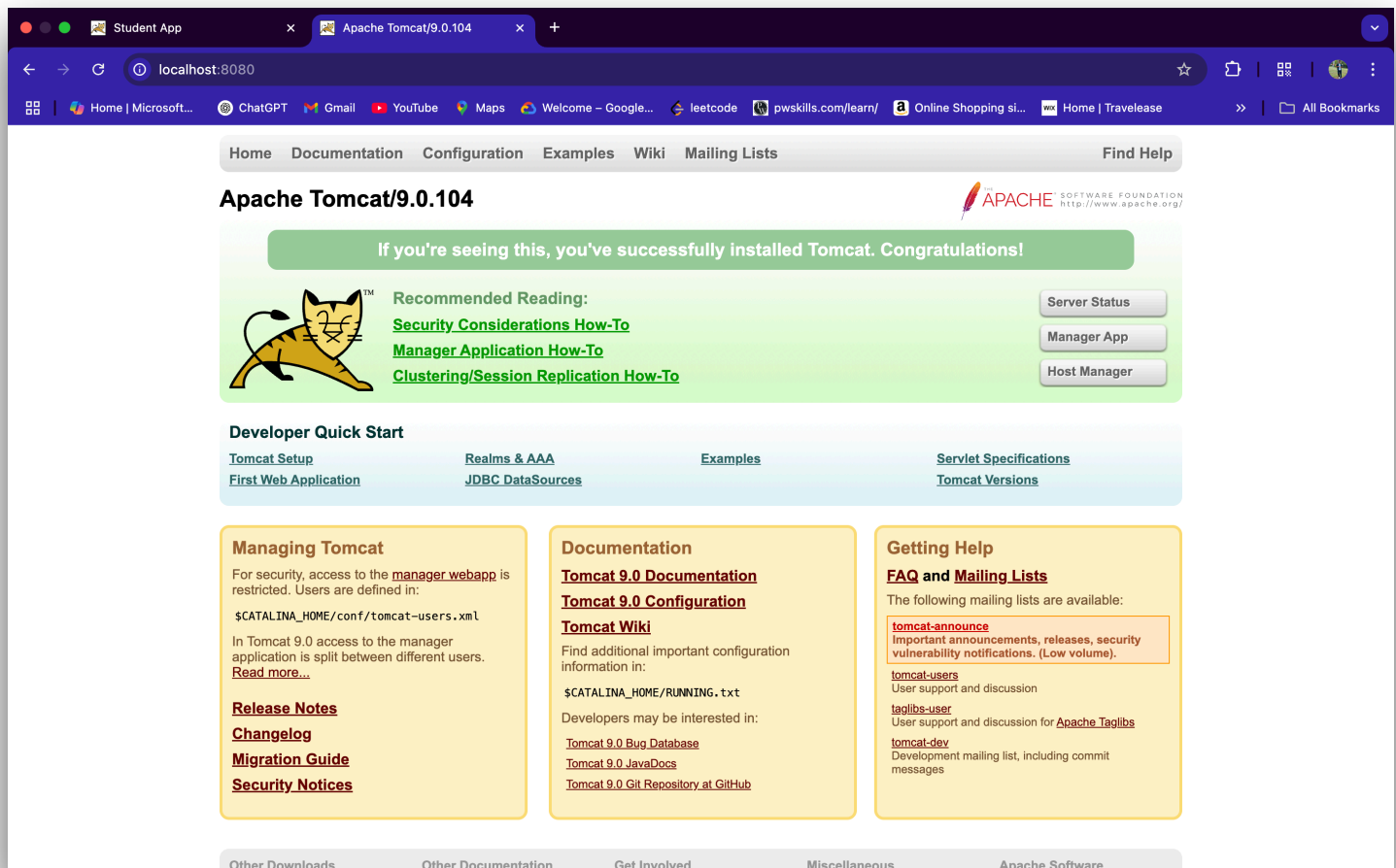
#addStudent.jsp

```
<html>
<head><title>Add Student</title></head>
<body>
  <h2>Add New Student</h2>
  <form action="AddStudentServlet" method="post">
    Name: <input type="text" name="name"><br>
    Email: <input type="email" name="email"><br>
    Course: <input type="text" name="course"><br>
    <input type="submit" value="Add">
  </form>
</body>
</html>
```

#viewStudent.jsp

```
<%@ page import="java.util.*,com.student.Student,com.student.StudentDAO" %>
<html>
<head><title>Student List</title></head>
<body>
  <h2>All Students</h2>
  <table border="1">
    <tr>
      <th>ID</th><th>Name</th><th>Email</th><th>Course</th><th>Action</th>
    </tr>
    <%
      List<Student> list = StudentDAO.getAllStudents();
      for(Student s : list){
    %>
    <tr>
      <td><%=s.getId()%></td>
      <td><%=s.getName()%></td>
      <td><%=s.getEmail()%></td>
      <td><%=s.getCourse()%></td>
      <td><a href="DeleteStudentServlet?id=<%=s.getId()%>">Delete</a></td>
    </tr>
    <% } %>
  </table>
  <br>
  <a href="index.jsp">Home</a>
</body>
</html>
```

Output :-



Student List

Apache Tomcat/9.0.104

localhost:8080/StudentApp/viewStudents.jsp

Home | Microsoft...

ChatGPT

Gmail

YouTube

Maps

Welcome – Google...

leetcode

pwskills.com/learn/

Online Shopping si...

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All Bookmarks

All Students

ID	Name	Email	Course	Action
1	shivraj pandurang chaudar	chaudarsp1@gmail.com	Computer Engineering	Delete
2	Vraj Kulye	Viraj@gmail.com	Computer Engineering	Delete
3	Rohit Sawant	Rohit@gmail.com	Information Technology	Delete
5	RESTO BOT	Bot@gmail.com	ENTC	Delete

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Add Student

Apache Tomcat/9.0.104

localhost:8080/StudentApp/addStudent.jsp

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All Bookmarks

Add New Student

Name:

Email:

Course:

Add

Student List

Apache Tomcat/9.0.104

localhost:8080/StudentApp/viewStudents.jsp

Home | Microsoft...ChatGPTGmailYouTubeMapsWelcome – Google...leetcodepwskills.com/learn/Online Shopping si...Home | TraveleaseAll Bookmarks

All Students

ID	Name	Email	Course	Action
1	shivraj pandurang chaudar	chaudarsp1@gmail.com	Computer Engineering	Delete
2	Vraj Kulye	Viraj@gmail.com	Computer Engineering	Delete
3	Rohit Sawant	Rohit@gmail.com	Information Technology	Delete
5	RESTO BOT	Bot@gmail.com	ENTC	Delete
6	Swaraj Nangare	Swaraj@gmail.com	Electronics And Telecommunication	Delete

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Student List

Apache Tomcat/9.0.104

localhost:8080/StudentApp/viewStudents.jsp

Home | Microsoft...ChatGPTGmailYouTubeMapsWelcome – Google...leetcodepwskills.com/learn/Online Shopping si...Home | TraveleaseAll Bookmarks

All Students

ID	Name	Email	Course	Action
1	shivraj pandurang chaudar	chaudarsp1@gmail.com	Computer Engineering	Delete
2	Vraj Kulye	Viraj@gmail.com	Computer Engineering	Delete
3	Rohit Sawant	Rohit@gmail.com	Information Technology	Delete
6	Swaraj Nangare	Swaraj@gmail.com	Electronics And Telecommunication	Delete

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