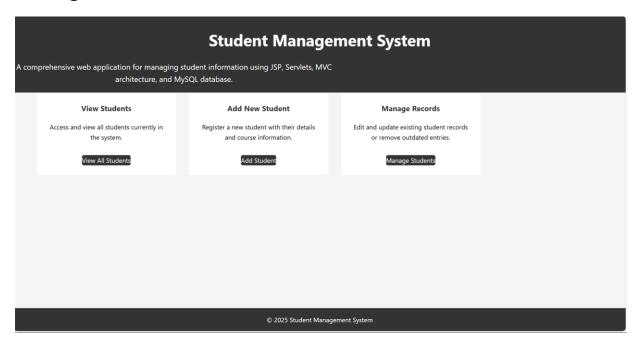
Student Name: Phan Tran Thanh Huy

Student ID: ITCSIU22056

Lab 8

Running the website:



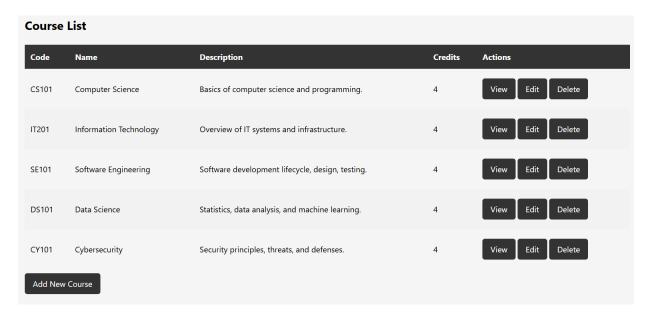
Feature 1: Course Management: Add the ability to manage courses separately from students

Course-list.jsp

```
<%@ include file="header.jsp" %>
2
3
     <h2>Course List</h2>
6
       No students found.
     </c:if>
10
          <thead>
11
             12
                Code
13
                Name
                Description
14
15
                Credits
                Actions
16
             17
          </thead>
18
19 =
          20 🗀
             <c:forEach var="course" items="${courses}">
21 -
                22
                   ${course.code}
23
                   ${course.name}
                   ${course.description}
24
                    ${course.credits}
25
26
                    27
     href="${pageContext.request.contextPath}/course/view?id=${course.id}"
28
8
     class="btn">View</a>
30 😑
                       <a
31
     href="${pageContext.request.contextPath}/course/edit?id=${course.id}"
<u>Q</u>
     class="btn">Edit</a>
33 🗀
                       <a
     href="${pageContext.request.contextPath}/course/delete?id=${course.id}"
34
     class="btn"
```

```
<u>Q</u>
      class="btn"
                           onclick="return confirm('Are you sure you want to
36
     delete this course?')">Delete</a>
37
38
                        39
                </c:forEach>
40
             41
         42
43
8
      <a href="${pageContext.request.contextPath}/course/new" class="btn">Add New Course</a>
      <%@ include file="footer.jsp"%>
45
```

Result:



Feature 2: Student Search Functionality: Add the ability to search for students by name or email Input box:

Search student function:

```
158
           private void searchStudent (HttpServletRequest request, HttpServletResponse response)
159 🖃
                  throws IOException, ServletException{
160
                       String query = request.getParameter("query");
161
                       List<Student> students;
162
163
                       if(query == null || query.trim().isEmpty()) {
164
                           students = studentDAO.getAllStudents();
165
                       } else {
166
                           students = studentDAO.searchStudentsByNameOrEmail(query.trim());
167
168
                       request.setAttribute("students", students);
169
170
                       request.getRequestDispatcher("/WEB-INF/views/student-list.jsp").forward(request, response);
171
172
```

Search in database:

```
141 =
           public List<Student> searchStudentsByNameOrEmail(String keyword) {
142
143
               List<Student> students = new ArrayList<>();
               String sql = "SELECT * FROM students WHERE name LIKE ? OR email LIKE ?";
144
145
146
           try (Connection conn = DBUtil.getConnection();
147
               PreparedStatement stmt = conn.prepareStatement(sql)) {
148
               String searchKeyword = "%" + keyword + "%";
149
150
               stmt.setString(1, searchKeyword);
               stmt.setString(2, searchKeyword);
151
152
               ResultSet rs = stmt.executeQuery();
153
154
               while (rs.next()) {
155
                   Student student = new Student();
156
                   student.setId(rs.getInt("id"));
157
                   student.setName(rs.getString("name"));
158
                   student.setEmail(rs.getString("email"));
159
                   // Fetch course if needed
160
                   students.add(student);
161
162
           } catch (SQLException e) {
163
 8
               e.printStackTrace();
165
166
           return students;
167
168
169
```

Result:

