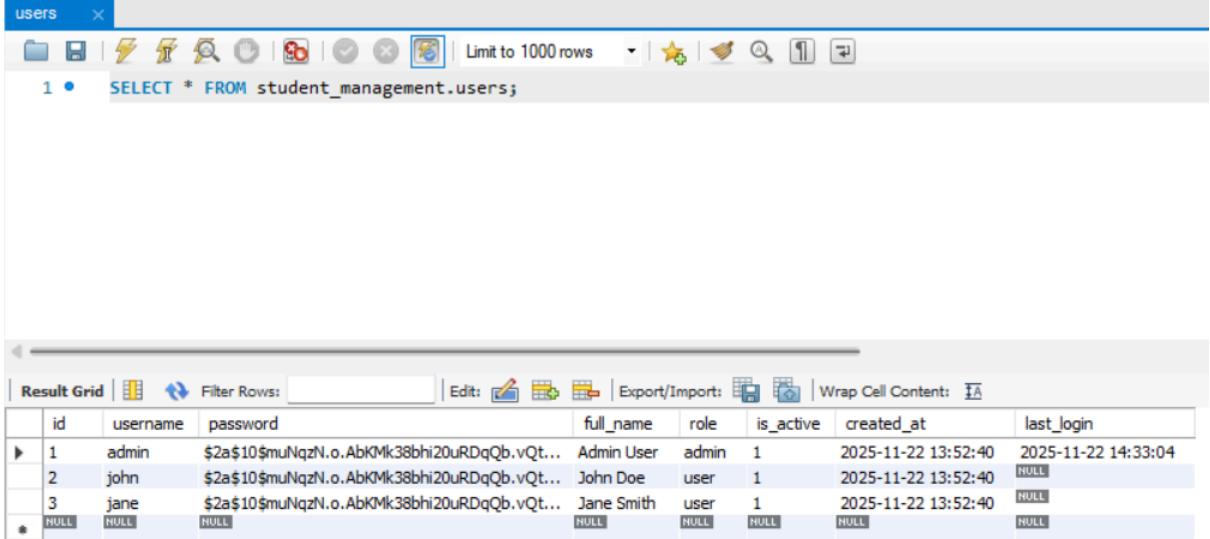


**Trần Thị Kiều My - ITCSIU23026**  
**Lab #6**  
**AUTHENTICATION & SESSION MANAGEMENT**

**Checkpoint #1:** Show the instructor the users table with test data.



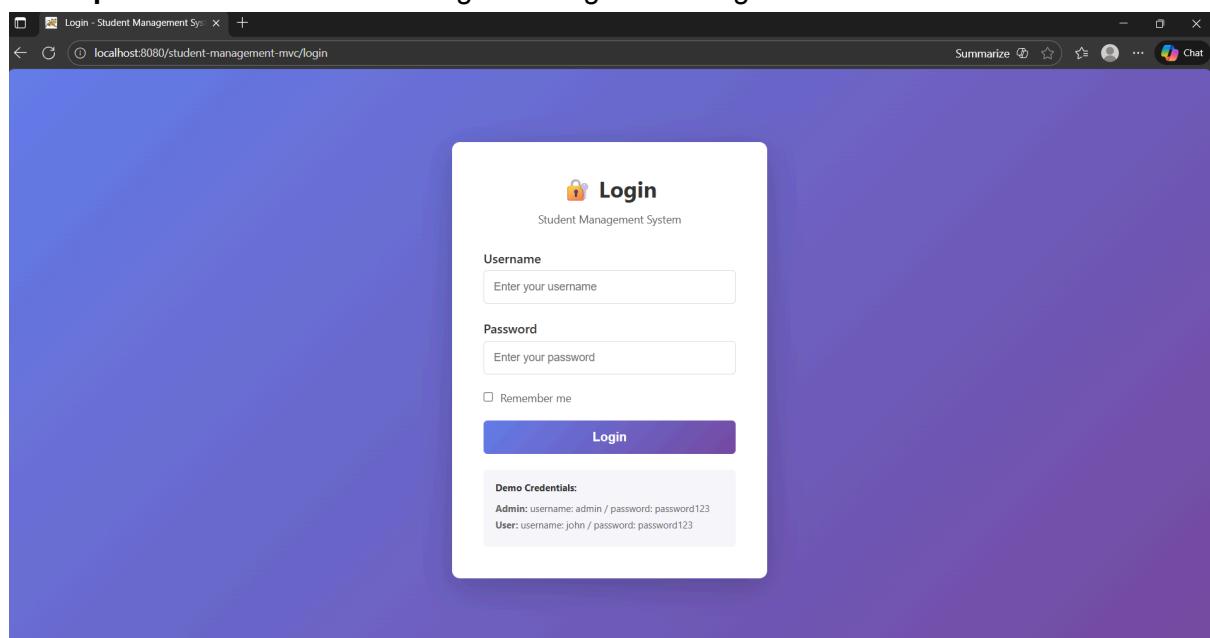
The screenshot shows the MySQL Workbench interface with a query editor and a result grid. The query editor contains the SQL command: `SELECT * FROM student_management.users;`. The result grid displays the following data:

	id	username	password	full_name	role	is_active	created_at	last_login
▶	1	admin	\$2a\$10\$muNqzN.o.AbKMk38bhi20uRDqQb.vQt...	Admin User	admin	1	2025-11-22 13:52:40	2025-11-22 14:33:04
	2	john	\$2a\$10\$muNqzN.o.AbKMk38bhi20uRDqQb.vQt...	John Doe	user	1	2025-11-22 13:52:40	NULL
*	3	jane	\$2a\$10\$muNqzN.o.AbKMk38bhi20uRDqQb.vQt...	Jane Smith	user	1	2025-11-22 13:52:40	NULL
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

**Checkpoint #2:** Show instructor UserDao authentication working.

```
Authentication successful!
User{id=1, username='admin', fullName='Admin User', role='admin', isActive=true}
Invalid auth: Correctly rejected
-----
BUILD SUCCESS
```

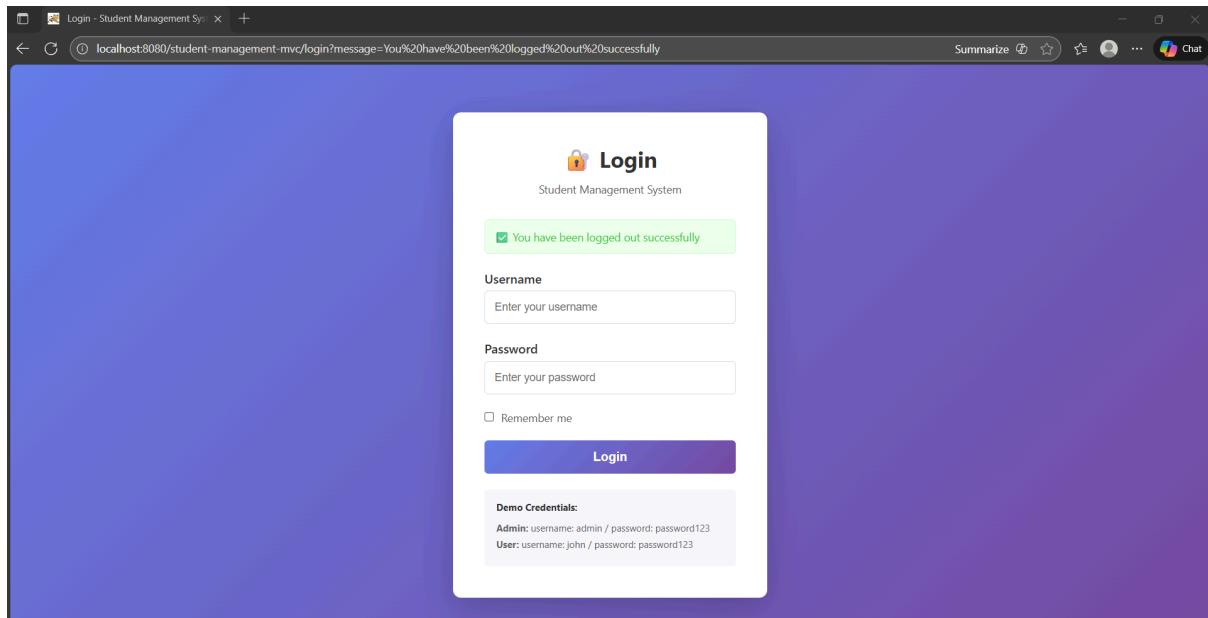
**Checkpoint #3:** Show instructor login and logout working.



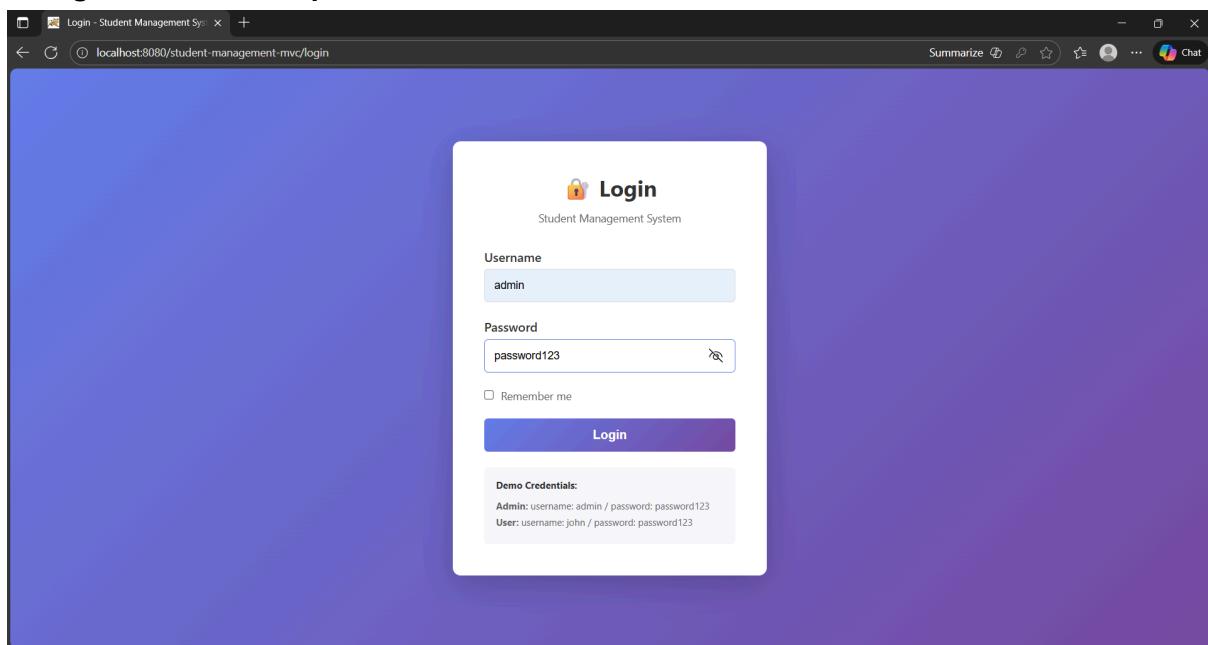
## Test Login Flow:

### 1. Access: <http://localhost:8080/student-management-mvc/login>

@WebServlet("/login")



### 2. Login with: admin / password123



Welcome back, Admin User!

Here's what's happening with your students today.

6 Total Students

Quick Actions

- View All Students
- Add New Student
- Search Students

### 3. Click "View All Students"

→ Shows student list

### Student List

MVC Pattern with Jakarta EE & JSTL

ID	STUDENT CODE	FULL NAME	EMAIL	MAJOR	ACTIONS
8	SV009	Miemiemim	tmy@gmail.com	Software Engineering	<button>Edit</button> <button>Delete</button>
6	SV006	Mie mie Love	tmy00037@gmail.com	Computer Science	<button>Edit</button> <button>Delete</button>
4	SV004	Sarah Davis	sarah.d@email.com	Data Science	<button>Edit</button> <button>Delete</button>
3	SV003	Michael Brown	michael.b@email.com	Software Engineering	<button>Edit</button> <button>Delete</button>
2	SV002	Emily Johnson	emily.j@email.com	Information Technology	<button>Edit</button> <button>Delete</button>

## → Edit/Delete buttons visible (admin)

The screenshot shows the 'Student Management' application's 'Student List' page. At the top, there is a success message: 'Student deleted successfully'. Below it is a search bar and a button to 'Add New Student'. The main area displays a table of student records:

ID	STUDENT CODE	FULL NAME	EMAIL	MAJOR	ACTIONS
4	SV004	Sarah Davis	sarah.d@email.com	Data Science	<button>Edit</button> <button>Delete</button>
3	SV003	Michael Brown	michael.b@email.com	Software Engineering	<button>Edit</button> <button>Delete</button>
2	SV002	Emily Johnson	emily.j@email.com	Information Technology	<button>Edit</button> <button>Delete</button>
1	SV001	John Smith	john.smith@email.com	Computer Science	<button>Edit</button> <button>Delete</button>

The screenshot shows the 'Edit Student' dialog box. It contains fields for Student Code (SV004), Full Name (Sarah Davis), Email (sarah.d@email.com), and Major (a dropdown menu showing 'Select Major'). At the bottom are 'Update Student' and 'Cancel' buttons.

## 5. Login with: john / password123

The screenshot shows a web browser window titled "Student Management". The URL in the address bar is "localhost:8080/student-management-mvc/student?action=list". The page header includes "Welcome, John Doe" and "USER" buttons, along with "Dashboard" and "Logout" links. The main content area is titled "Student List" with the sub-instruction "MVC Pattern with Jakarta EE & JSTL". It features a search bar with placeholder text "Search by Name, Email, or Code..." and a "Search" button. Below the search bar is a table with the following data:

ID	STUDENT CODE	FULL NAME	EMAIL	MAJOR
4	<b>SV004</b>	Sarah Davis	sarah.d@email.com	Data Science
3	<b>SV003</b>	Michael Brown	michael.b@email.com	Software Engineering
2	<b>SV002</b>	Emily Johnson	emily.j@email.com	Information Technology
1	<b>SV001</b>	John Smith	john.smith@email.com	Computer Science

## 6. Try to access: /student?action=new

The screenshot shows a web browser window titled "Student Management". The URL in the address bar is "localhost:8080/student-management-mvc/student?action=list&error=Access%20denied.%20Admin%20privileges%20required.". The page header includes "Welcome, John Doe" and "USER" buttons, along with "Dashboard" and "Logout" links. The main content area is titled "Student List" with the sub-instruction "MVC Pattern with Jakarta EE & JSTL". A red error message box displays "Access denied. Admin privileges required." Below the message is a search bar with placeholder text "Search by Name, Email, or Code..." and a "Search" button. Below the search bar is a table with the following data:

ID	STUDENT CODE	FULL NAME	EMAIL	MAJOR
4	<b>SV004</b>	Sarah Davis	sarah.d@email.com	Data Science
3	<b>SV003</b>	Michael Brown	michael.b@email.com	Software Engineering
2	<b>SV002</b>	Emily Johnson	emily.j@email.com	Information Technology
1	<b>SV001</b>	John Smith	john.smith@email.com	Computer Science