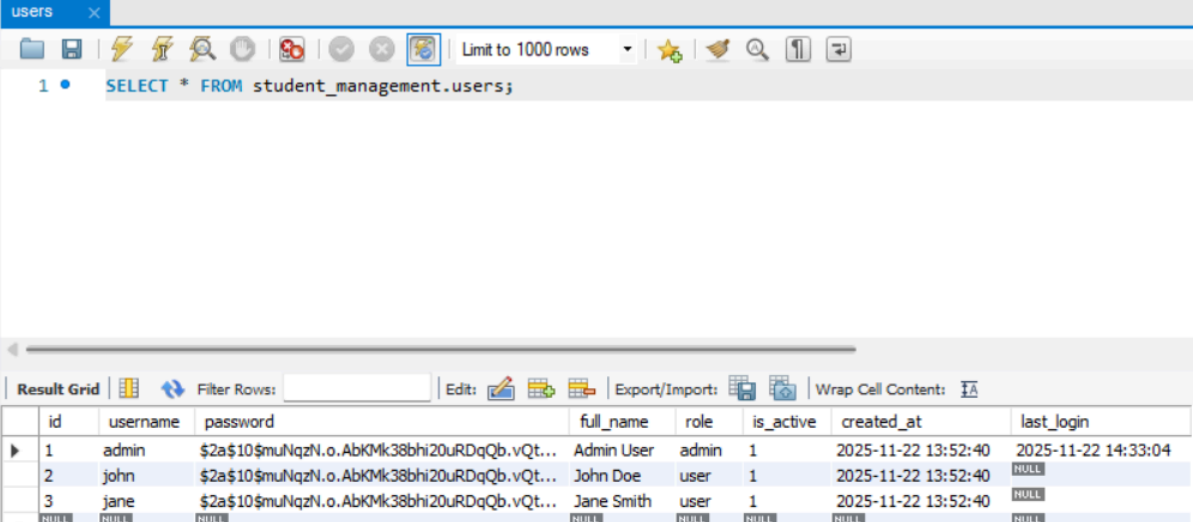


Trần Thị Kiều My - ITCSIU23026
Lab #6
AUTHENTICATION & SESSION MANAGEMENT

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



The screenshot shows a database client window titled 'users'. The SQL query 'SELECT * FROM student_management.users;' is entered. 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

Checkpoint #2: Show instructor UserDao authentication working.

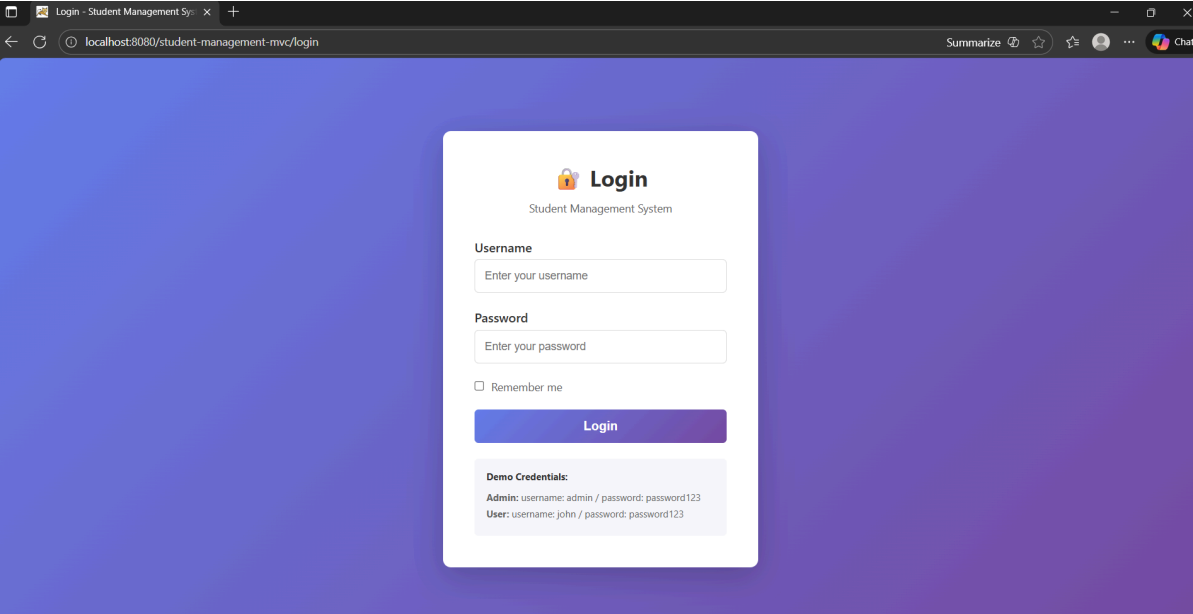
Authentication successful!

User{id=1, username='admin', fullName='Admin User', role='admin', isActive=true}

Invalid auth: Correctly rejected

BUILD SUCCESS

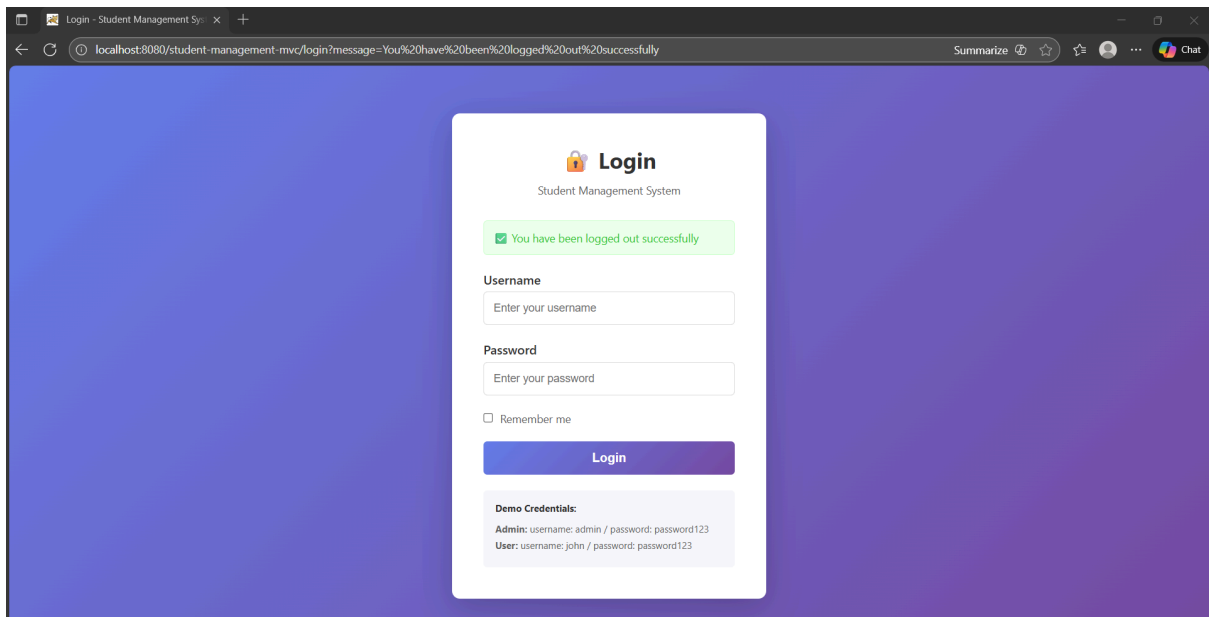
Checkpoint #3: Show instructor login and logout working.



The screenshot shows a web browser window with the URL 'localhost:8080/student-management-mvc/login'. The page has a purple gradient background and a white login form. The form includes fields for 'Username' and 'Password', a 'Remember me' checkbox, and a 'Login' button. Below the form, there are 'Demo Credentials' listed: Admin (username: admin / password: password123) and User (username: john / password: password123).

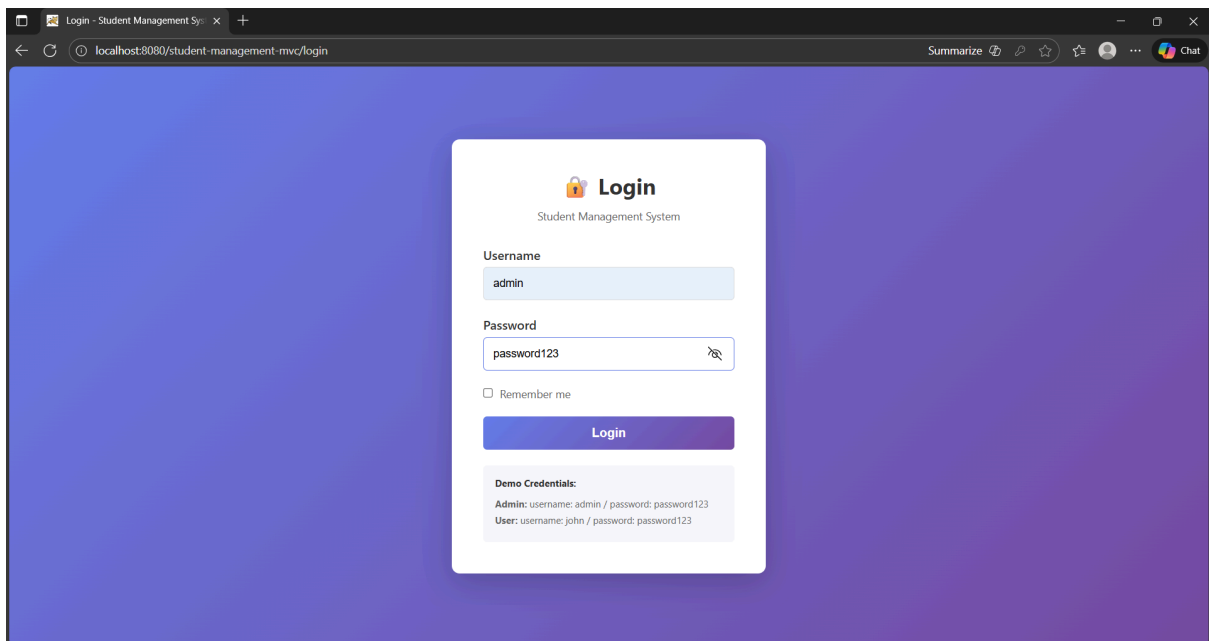
Test Login Flow:

1. Access: <http://localhost:8080/student-management-mvc/login>
@WebServlet("/login")

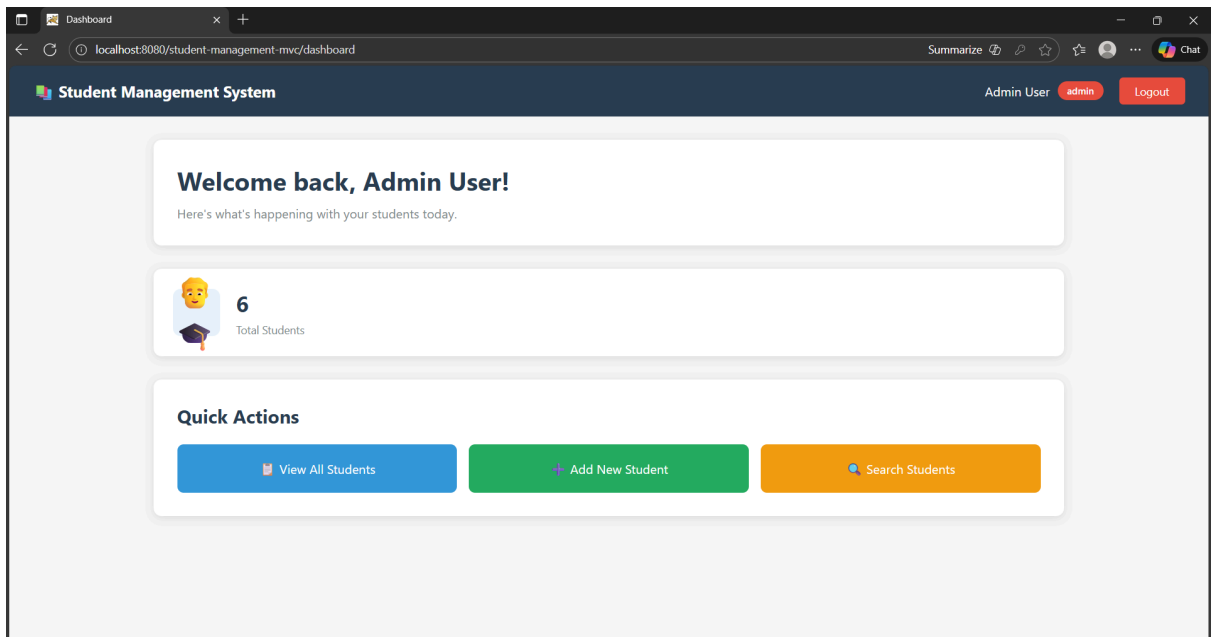


The screenshot shows a web browser window with the URL `localhost:8080/student-management-mvc/login?message=You%20have%20been%20logged%20out%20successfully`. The page features a purple gradient background. In the center is a white login card titled "Login" with a lock icon. Below the title is the text "Student Management System". A green message box at the top of the card says "You have been logged out successfully". Below this are input fields for "Username" (placeholder: "Enter your username") and "Password" (placeholder: "Enter your password"). There is a "Remember me" checkbox and a "Login" button. At the bottom, a "Demo Credentials" section lists: "Admin: username: admin / password: password123" and "User: username: john / password: password123".

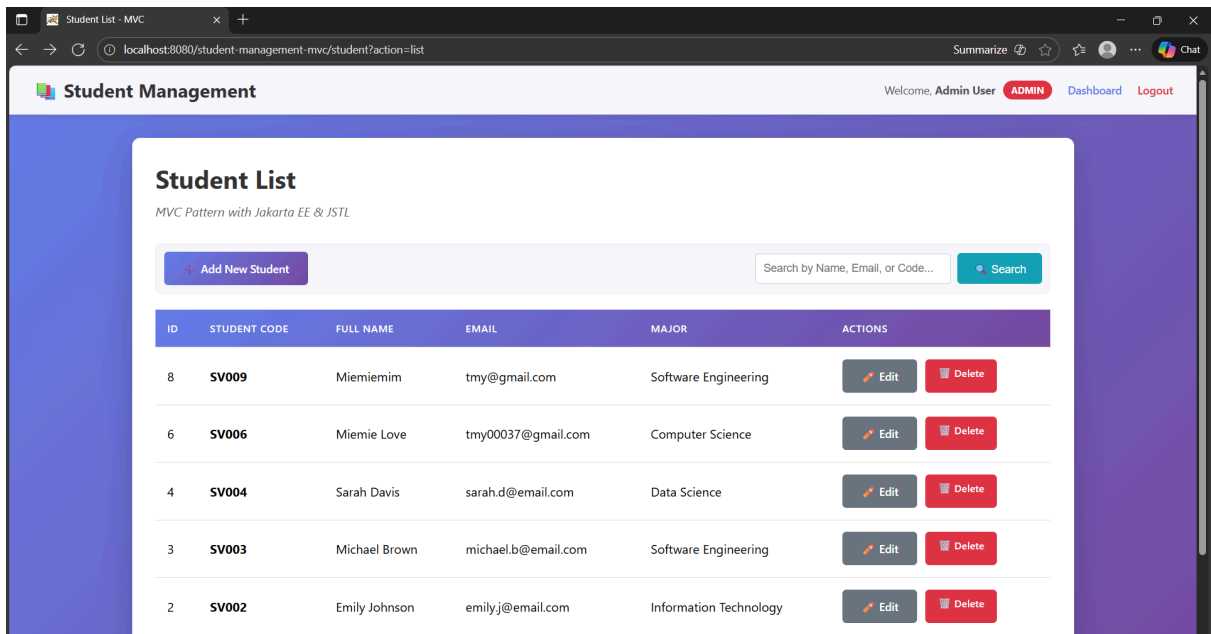
2. Login with: admin / password123



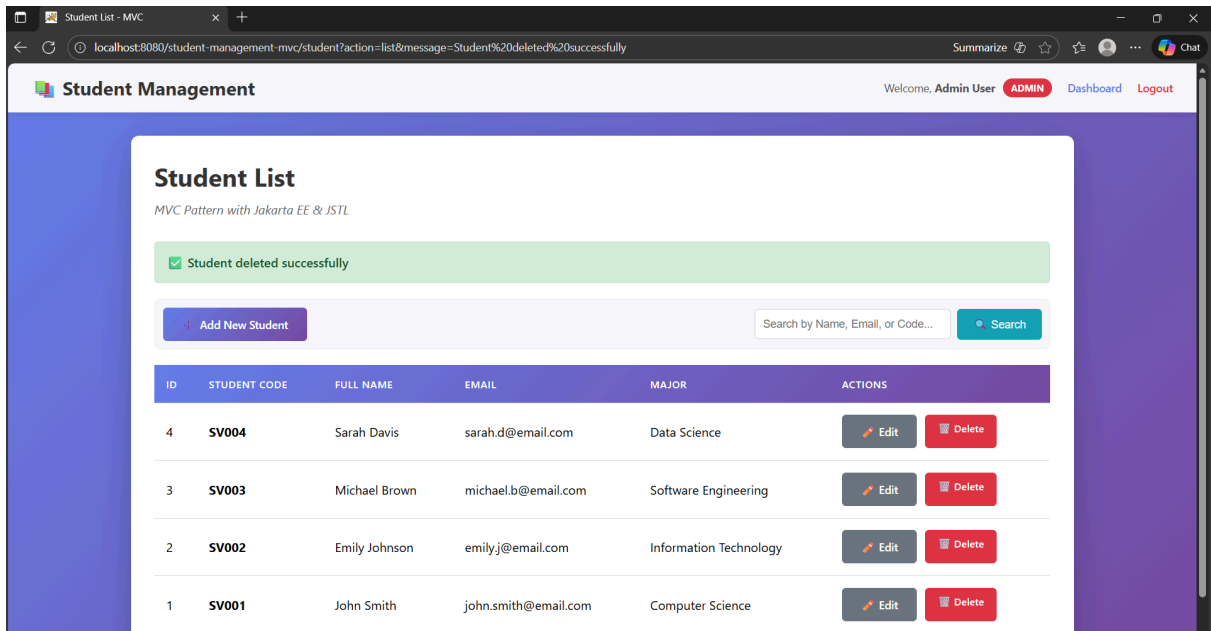
The screenshot shows the same login page, but the "Username" field now contains "admin" and the "Password" field contains "password123". The "Remember me" checkbox remains unchecked. The "Login" button and the "Demo Credentials" section at the bottom are still visible.



3. Click "View All Students"
→ Shows student list



→ Edit/Delete buttons visible (admin)



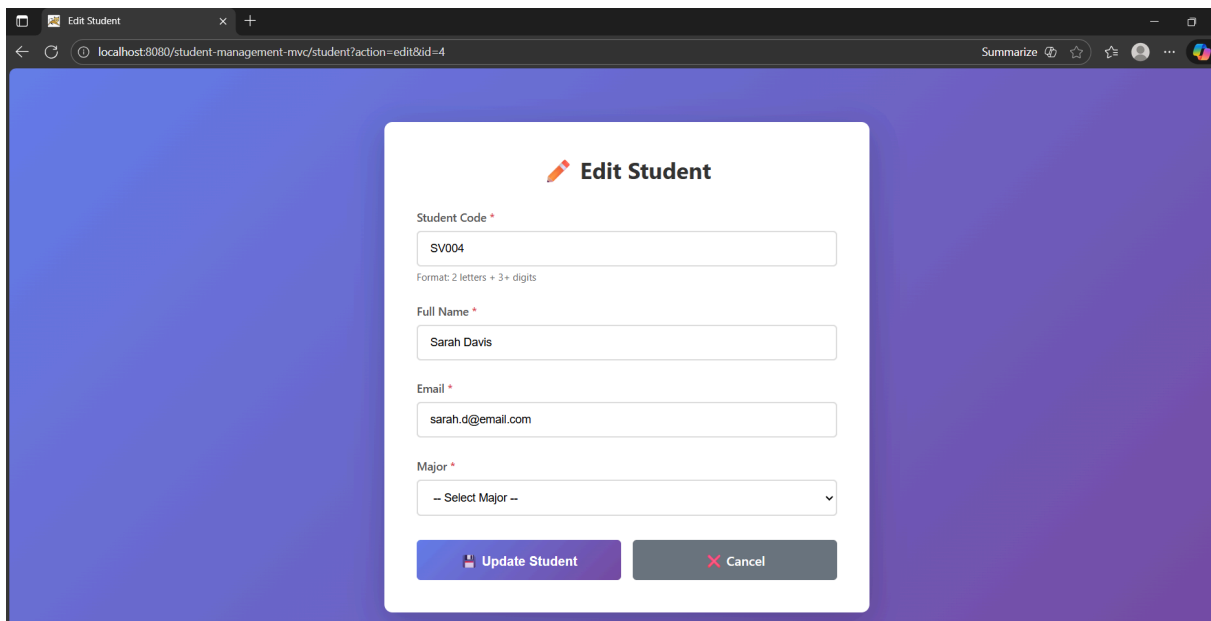
Student List

MVC Pattern with Jakarta EE & JSTL

✓ Student deleted successfully

[Add New Student](#) Search by Name, Email, or Code... [Search](#)

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



Edit Student

Student Code *

SV004

Format: 2 letters + 3+ digits

Full Name *

Sarah Davis

Email *

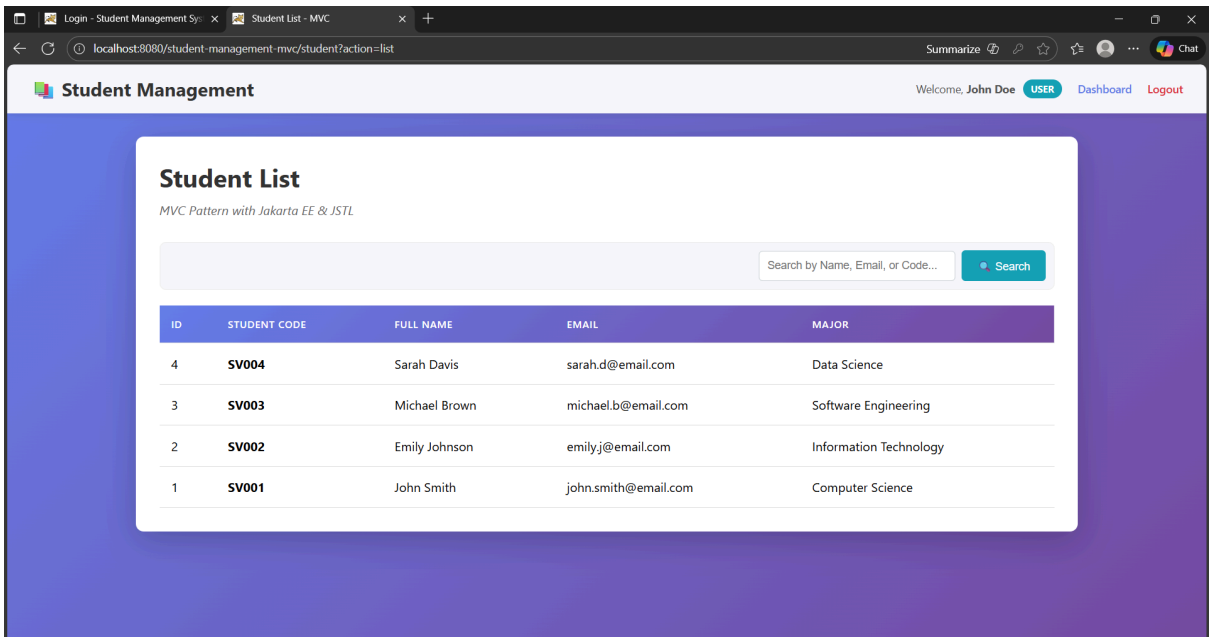
sarah.d@email.com

Major *

-- Select Major --

[Update Student](#) [Cancel](#)

5. Login with: john / password123



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

