ITITWE23039 - Phan Kim Vĩnh Phúc

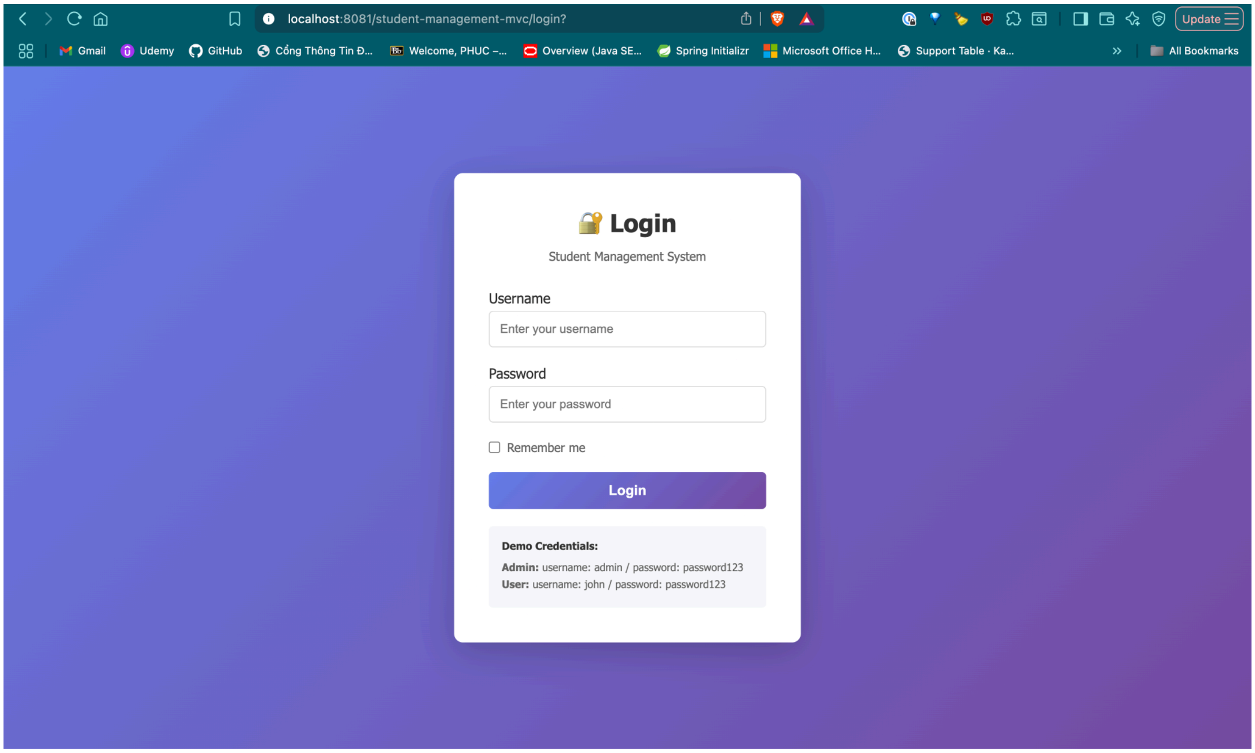
Lab 6

Github site & link

https://github.com/alexis0704/web-dev-practice-lab/tree/main/student-management-mvc

Testing the sample code

1. Access: http://localhost:8080/YourApp/ → Redirected to login (AuthFilter)



localhost:8081/student-management-mvc/login?

🔐 Login

Student Management System

Username

Enter your username

Password

Enter your password

☐ Remember me

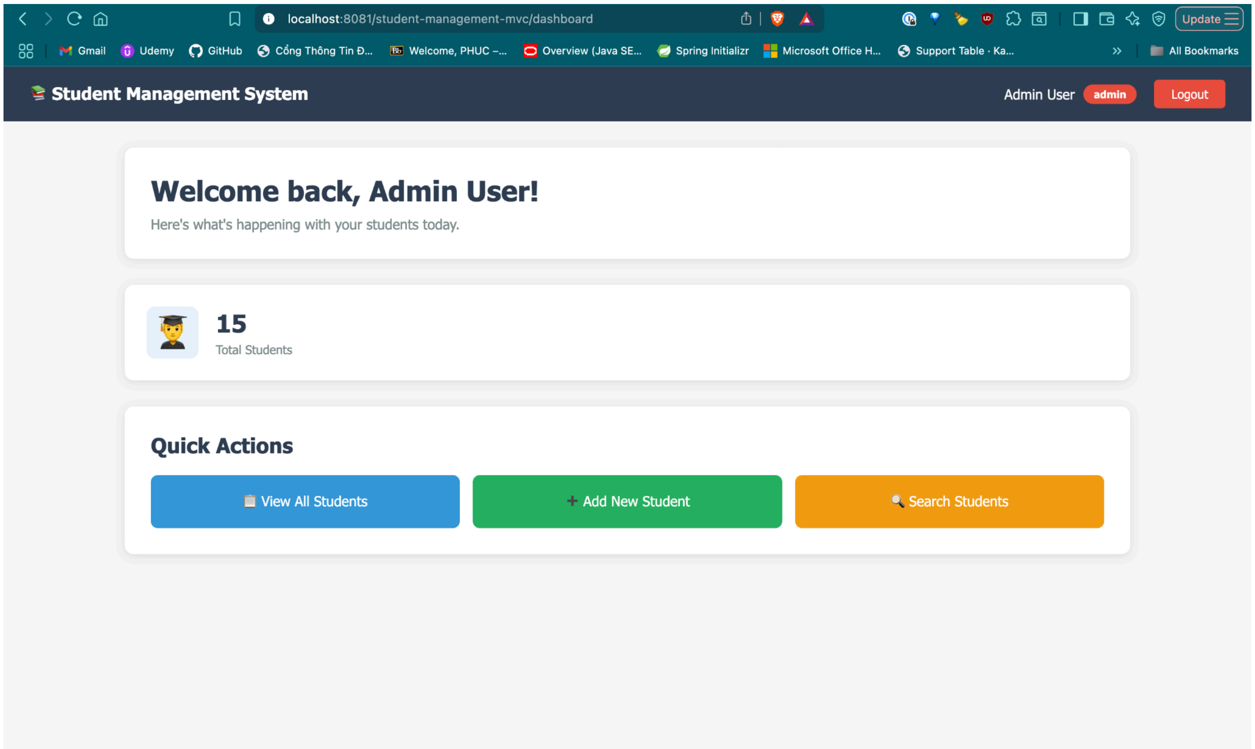
Login

Demo Credentials:

Admin: username: admin / password: password123
User: username: john / password: password123

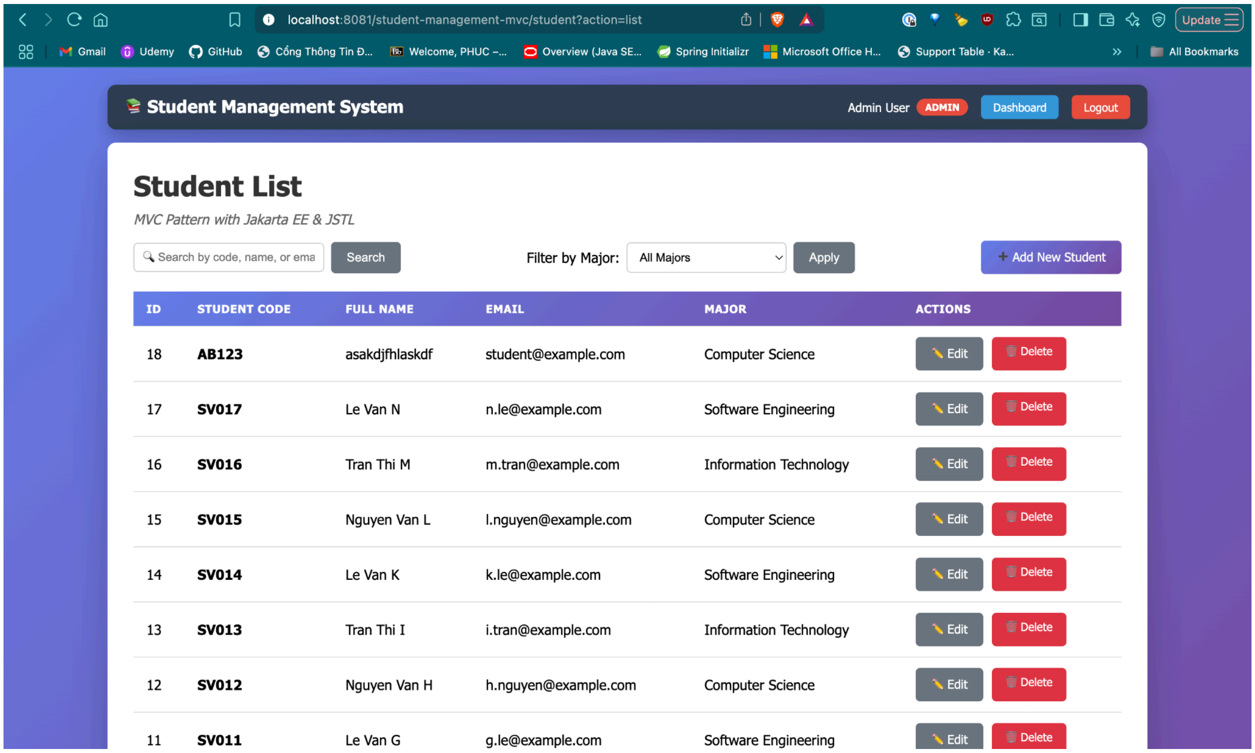
When opening the root URL, the AuthFilter detects that there is no logged-in user and automatically redirects the request to the login page.

2. Login with: admin / password123 → Creates session → Redirected to dashboard



After entering valid admin credentials, the login servlet authenticates the user, creates a new HttpSession, stores info in it, andredirects to the dashboard page.

3. Click "View All Students" → Shows student list → Edit/Delete buttons visible (admin)



localhost:8081/student-management-mvc/student?action=list

Student Management System

Student List

MVC Pattern with Jakarta EE & JSTL

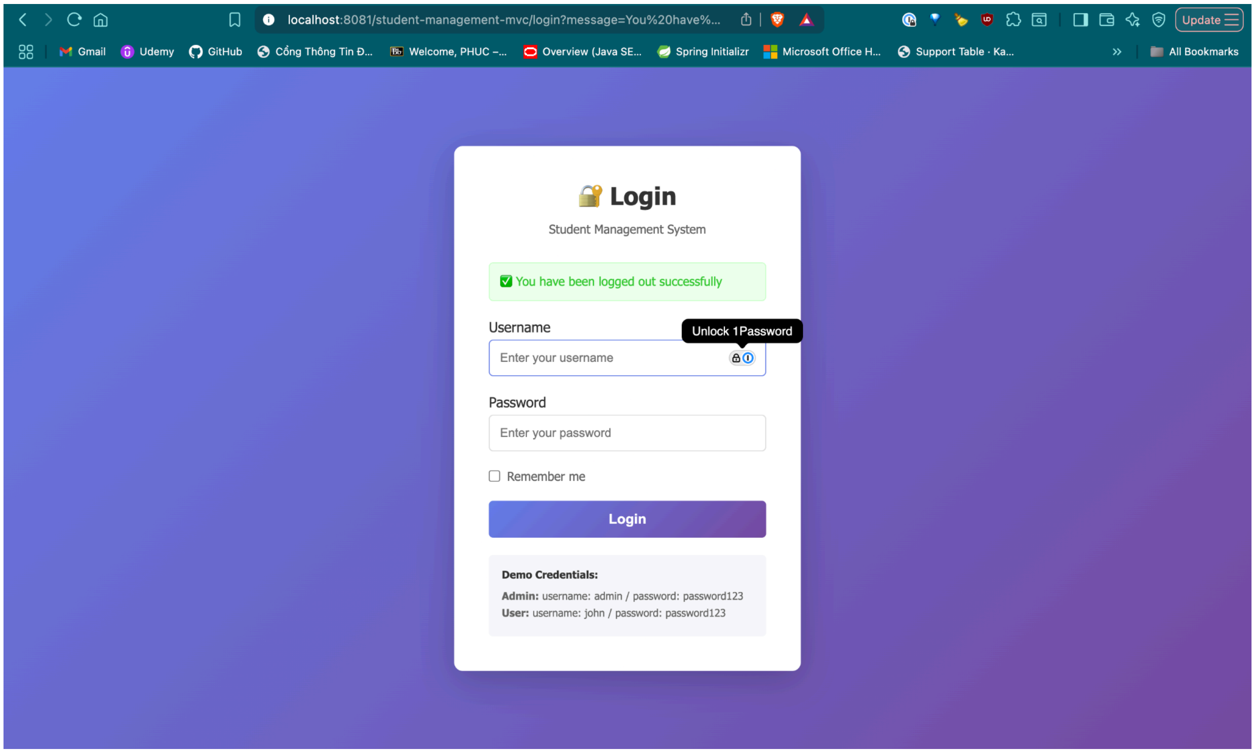
🔍 Search by code, name, or ema

Filter by Major: All Majors

ID	STUDENT CODE	FULL NAME	EMAIL	MAJOR	ACTIONS
18	**AB123**	asakdjfhlaskdf	student@example.com	Computer Science	✎ Edit 🗑 Delete
17	**SV017**	Le Van N	n.le@example.com	Software Engineering	✎ Edit 🗑 Delete
16	**SV016**	Tran Thi M	m.tran@example.com	Information Technology	✎ Edit 🗑 Delete
15	**SV015**	Nguyen Van L	l.nguyen@example.com	Computer Science	✎ Edit 🗑 Delete
14	**SV014**	Le Van K	k.le@example.com	Software Engineering	✎ Edit 🗑 Delete
13	**SV013**	Tran Thi I	i.tran@example.com	Information Technology	✎ Edit 🗑 Delete
12	**SV012**	Nguyen Van H	h.nguyen@example.com	Computer Science	✎ Edit 🗑 Delete
11	**SV011**	Le Van G	g.le@example.com	Software Engineering	✎ Edit 🗑 Delete

From the dashboard, the admin can open the student list. Because the user had the admin role, the page displays Edit and Delete buttons → role-based access.

4. Logout → Session invalidated → Redirected to login



🔐 **Login**

Student Management System

✅ You have been logged out successfully

Username

Enter your username

Password

Enter your password

□ Remember me

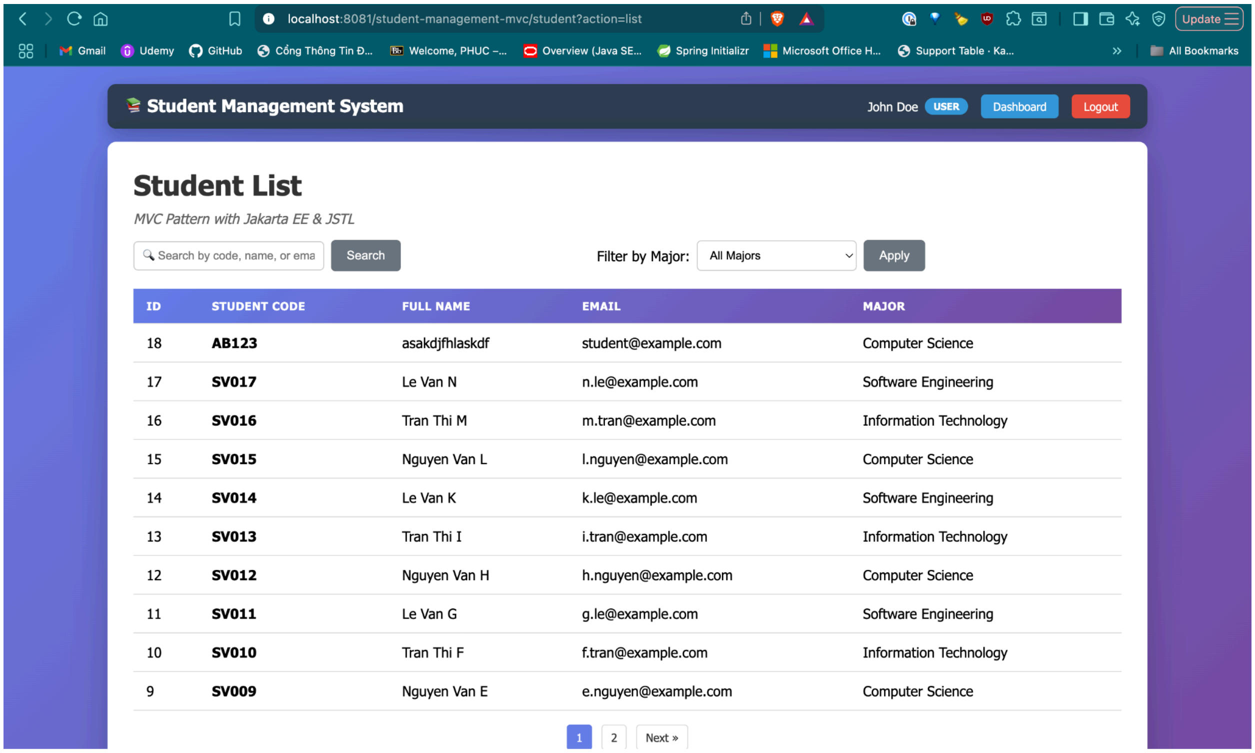
Login

Demo Credentials:

Admin: username: admin / password: password123
User: username: john / password: password123

Clicking Logout calls the LogoutController, this invalidates the current session and redirects back to the login page. The code clears session data and forces re-authentication.

5. Login with: john / password123 → Regular user view → No Edit/Delete buttons



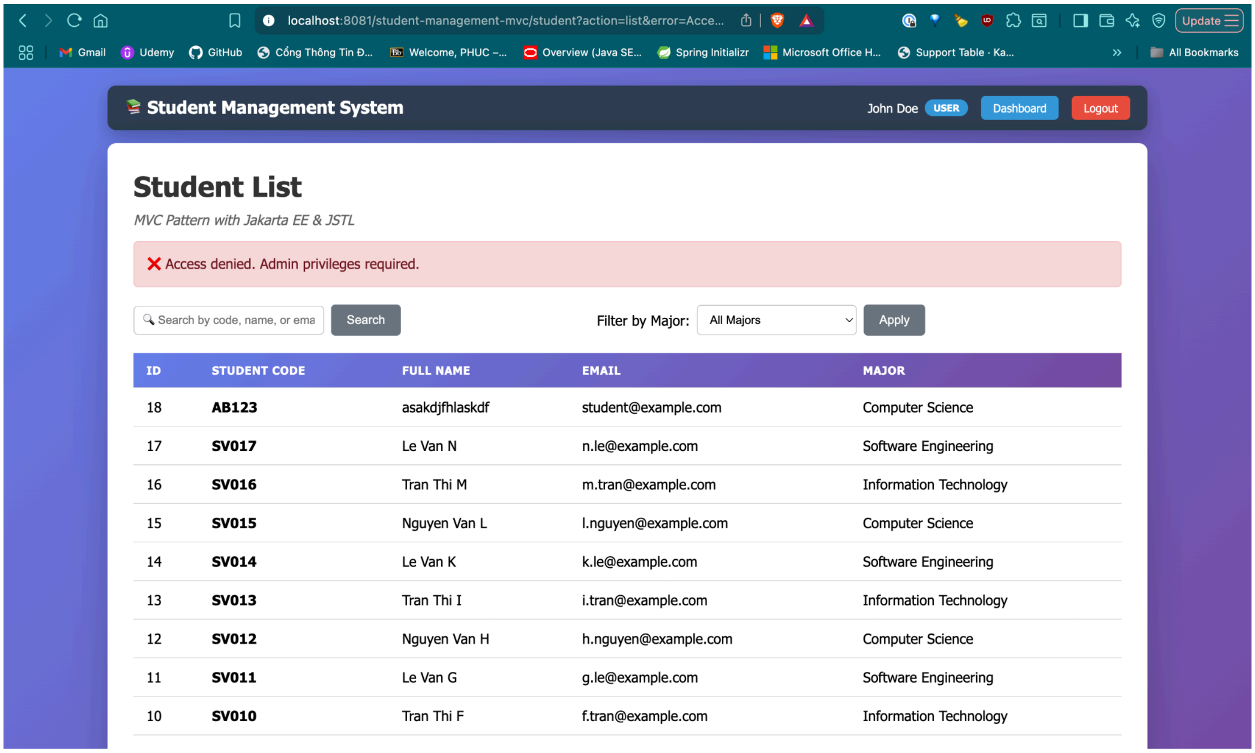
Student List

MVC Pattern with Jakarta EE & JSTL

ID	STUDENT CODE	FULL NAME	EMAIL	MAJOR
18	**AB123**	asakdjfhlaskdf	student@example.com	Computer Science
17	**SV017**	Le Van N	n.le@example.com	Software Engineering
16	**SV016**	Tran Thi M	m.tran@example.com	Information Technology
15	**SV015**	Nguyen Van L	l.nguyen@example.com	Computer Science
14	**SV014**	Le Van K	k.le@example.com	Software Engineering
13	**SV013**	Tran Thi I	i.tran@example.com	Information Technology
12	**SV012**	Nguyen Van H	h.nguyen@example.com	Computer Science
11	**SV011**	Le Van G	g.le@example.com	Software Engineering
10	**SV010**	Tran Thi F	f.tran@example.com	Information Technology
9	**SV009**	Nguyen Van E	e.nguyen@example.com	Computer Science

Logging in with a normal user account only shows a read-only student list (no Edit/Delete buttons). Regular users have restricted permissions compared to admins.

6. Try to access: /student?action=new → AdminFilter blocks access → Error message displayed



Student List

MVC Pattern with Jakarta EE & JSTL

❌ Access denied. Admin privileges required.

ID	STUDENT CODE	FULL NAME	EMAIL	MAJOR
18	**AB123**	asakdjfhlaskdf	student@example.com	Computer Science
17	**SV017**	Le Van N	n.le@example.com	Software Engineering
16	**SV016**	Tran Thi M	m.tran@example.com	Information Technology
15	**SV015**	Nguyen Van L	l.nguyen@example.com	Computer Science
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10	**SV010**	Tran Thi F	f.tran@example.com	Information Technology

When a non-admin user manually tries to open the “new student” URL, the AdminFilter checks the user’s role, detects that they are not admin, and blocks the request, redirecting back to the list page with an “Access denied. Admin privileges required.” message. This proves that admin-only actions are protected at the filter level.