

VIETNAM NATIONAL UNIVERSITY OF HO CHI MINH CITY

THE INTERNATIONAL UNIVERSITY

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING



Web Application Development - IT093IU

Homework Lab 5: SERVLET & MVC PATTERN

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Github Link

https://github.com/ngvuthtinh/Web_Lab/tree/main/Lab_5/Homework

1. Home page with student list



Student Management System

MVC Pattern with Jakarta EE & JSTL

Add StudentExport Excel

-- All Majors --

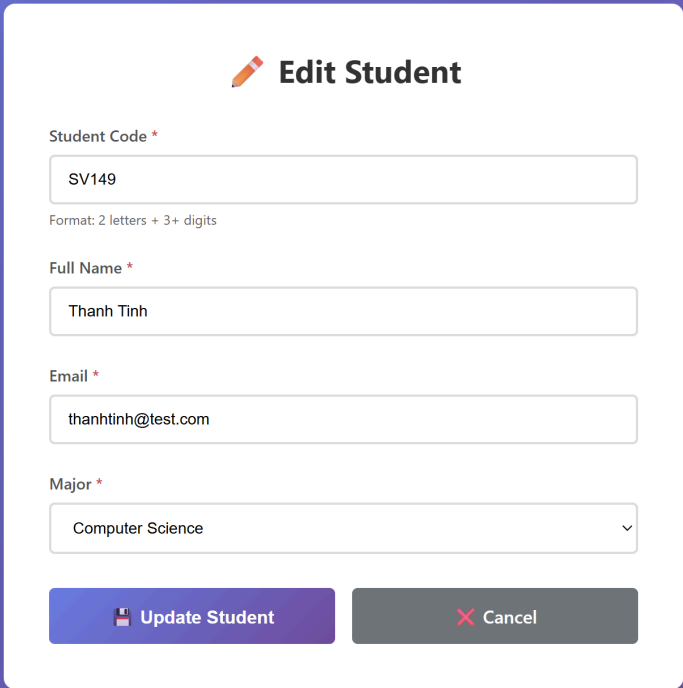
Clear

ID	CODE	FULL NAME	EMAIL	MAJOR	ACTION
6	SV149	Thanh Tinh	thanhtinh@test.com	Computer Science	<div>Edit</div> <div>Delete</div>
7	SV205	Anh Khoi	anhkhoi@test.com	Software Engineering	<div>Edit</div> <div>Delete</div>

Description: The main dashboard displays a paginated list of students. It includes a control panel for searching, filtering by major, and sorting by columns. Users can also export data to Excel or add new students from this view.

2. Add student form

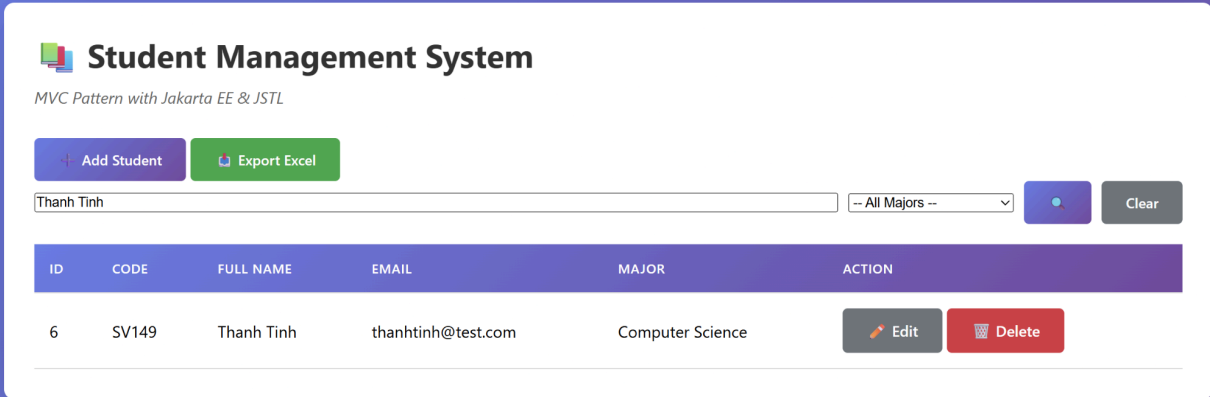
3. Edit student form (pre-filled)



The image shows a modal form titled "Edit Student" with a pencil icon. It contains four input fields: "Student Code" (pre-filled with "SV149", format: 2 letters + 3+ digits), "Full Name" (pre-filled with "Thanh Tinh"), "Email" (pre-filled with "thanhtinh@test.com"), and "Major" (a dropdown menu pre-filled with "Computer Science"). At the bottom are two buttons: "Update Student" (blue) and "Cancel" (grey).

Description: The edit form pre-loads the existing student's data from the database, allowing the user to modify details while preserving the Student ID.

4. Search results




The image shows the "Student Management System" interface. At the top, it says "MVC Pattern with Jakarta EE & JSTL". Below this are two buttons: "Add Student" (blue) and "Export Excel" (green). A search bar contains "Thanh Tinh". To the right of the search bar is a dropdown menu set to "-- All Majors --" and a "Clear" button. Below the search bar is a table with the following data:


ID	CODE	FULL NAME	EMAIL	MAJOR	ACTION
6	SV149	Thanh Tinh	thanhtinh@test.com	Computer Science	<button>Edit</button> <button>Delete</button>

Description: Search functionality allows finding students by Name, Code, or Email. The search state is preserved across pagination.


5. Validation errors

 **Edit Student**


Student Code *

 **Student code is required**
Format: 2 letters + 3+ digits


Full Name *



 **Full name is required**

Email *

 **Email is required**


Major *

 **Major is required**

 **Update Student**  **Cancel**

Description: Server-side validation prevents invalid data entry. Error messages are displayed directly below the relevant fields if inputs are missing or format constraints (like Regex for Student Code/Email) are violated.

6. Sorted list

 **Student Management System**
MVC Pattern with Jakarta EE & JSTL

Add Student


Export Excel

-- All Majors -- Clear

ID ▾	CODE	FULL NAME	EMAIL	MAJOR	ACTION
8	SV310	Hoang Phuong	hoangphuong@test.com	Business Administration	<div>Edit</div> <div>Delete</div>
7	SV205	Anh Khoi	anhkhoi@test.com	Software Engineering	<div>Edit</div> <div>Delete</div>
6	SV149	Thanh Tinh	thanh tinh@test.com	Computer Science	<div>Edit</div> <div>Delete</div>

Description: Clicking on column headers sorts the data in Ascending or Descending order. Visual indicators (arrows) show the current sort direction.

7. Filtered list

 **Student Management System**
MVC Pattern with Jakarta EE & JSTL

Add Student

Export Excel

Business Administration Clear

ID ▲	CODE	FULL NAME	EMAIL	MAJOR	ACTION
8	SV310	Hoang Phuong	hoangphuong@test.com	Business Administration	<div>Edit</div> <div>Delete</div>

Description: Users can filter the list to show only students from a specific Major. The filter dropdown reflects the current selection.