WEB APPLICATION DEVELOPMENT
INSTRUCTOR:

STUDENT NAME
Ngô Quang Hải

STUDENT ID
ITCSIU22276

LAB4

Query:

-- Create database

CREATE DATABASE student_management;

GO

-- Switch to the new database

USE student_management;

GO

-- Create table

CREATE TABLE students (

   id INT IDENTITY(1,1) PRIMARY KEY,

   student_code VARCHAR(10) UNIQUE NOT NULL,

   full_name NVARCHAR(100) NOT NULL,

   email VARCHAR(100),

   major NVARCHAR(50),

   created_at DATETIME DEFAULT GETDATE()

);

GO
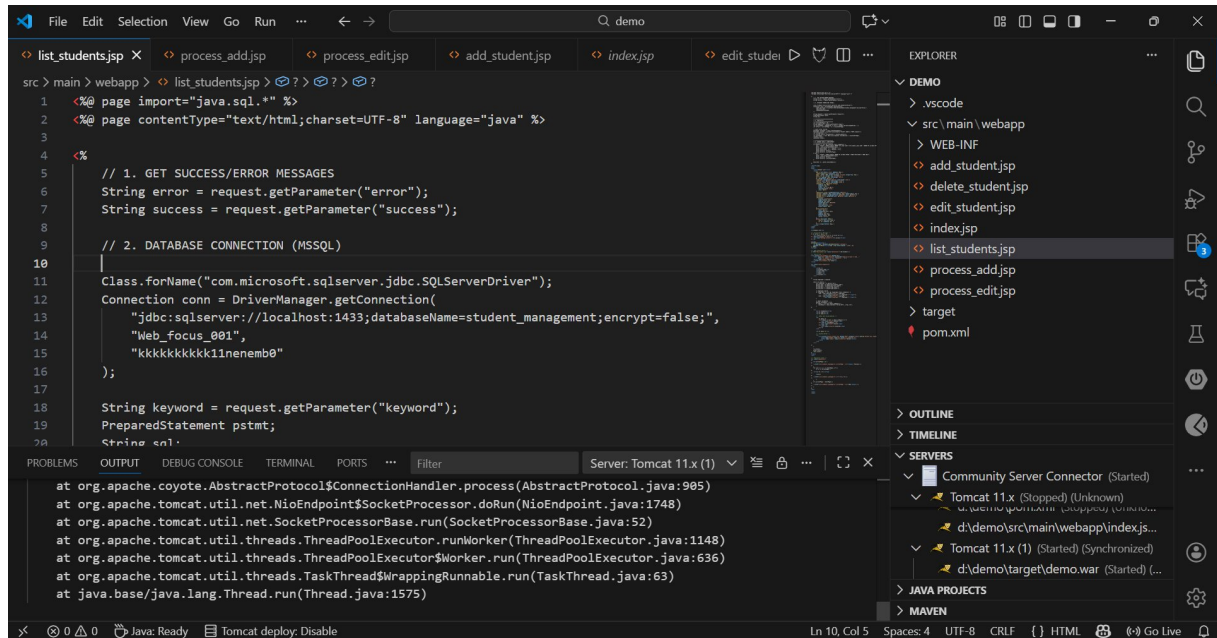

-- Insert sample data

INSERT INTO students (student_code, full_name, email, major) VALUES

('SV001', 'John Smith', 'john.smith@email.com', 'Computer Science'),

('SV002', 'Emily Johnson', 'emily.j@email.com', 'Information Technology'),

('SV003', 'Michael Brown', 'michael.b@email.com', 'Software Engineering'),

('SV004', 'Sarah Davis', 'sarah.d@email.com', 'Data Science'),

('SV005', 'David Wilson', 'david.w@email.com', 'Computer Science');

GO

Snapshot of my project:

VS code studio + MAVEN and Tomcat extensions

Also, i do not use MySQL, i use Mssql

Main list here: It has pacification, so theres a scrollbar and each page fits exactly 10 students.

The Ids is a bit off though.

As you see, there's a search bar with placeholder "Search by name or code"< so if you enter number or integer it search by Student code, if you just search by text it will jump to Name. Everything is being searched by queries thanks to Mssql. The word in the search bar get highlighted in the list.

The search bar support the memory function to keep the inputs in local storage.

So, theres a big green + Add Student. When you click on it, you will be moved to add_Student.jsp. I have process_add.jsp do all the backend. And like the search bar those input fields also have memory.

An example of an adding of student.

Add Student

Student Code:
SV001

Full Name:
ne

Email:
gaylgmail@gmail.com

Major:
no

Add Student

The adding failed because there already exist SV001, so it detected the duplicate. Every time the adding failed when you click submit button Add Student, it will display error message.

Add Student

X Error adding student

Student Code:

Full Name:

Email:

Major:

Add Student

A valid Inputs.

Add Student

Student Code:

SV0001

Full Name:

Ngo Quang Hai 222

Email:

NgoQunagHai500505@gmail.com

Major:

no

Add Student

Add Student

✓ Student added successfully

Student Code:

Full Name:

Email:

Major:

Add Student

Delete_student.jsp is called when you click on red Delete button. I use the built system notification message. If you choose OK, a deletion query will be executed and Mssql will delete the student by its ID from database. The list will load a database with that student gone.

Student List

+ Add Student

a | Search Clear

localhost:8080 says

Delete this student?

OK   Cancel

ID	Student Code	Full Name	Email	Major	Actions
15	SV0001	Ngo Quang Hai 222	NgoQunagHai500505@gmail.com **(Valid)**	no	Delete
12	SV007	Ngo Quang Hai	NgoQunagHai500505@gmail.com **(Valid)**	no	Delete
5	SV005	David Wilson	david.w@email.com **(Valid)**	Computer Science	Delete
4	SV004	Sarah Davis	sarah.d@email.com **(Valid)**	Data Science	Delete
3	SV003	Michael Brown	michael.b@email.com **(Valid)**	Software Engineering	Delete

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Student List

✓ Student deleted successfully

+ Add Student

Search by name or code... | Search Clear

ID	Student Code	Full Name	Email	Major	Actions
12	SV007	Ngo Quang Hai	NgoQunagHai500505@gmail.com **(Valid)**	no	Delete
5	SV005	David Wilson	david.w@email.com **(Valid)**	Computer Science	Delete
4	SV004	Sarah Davis	sarah.d@email.com **(Valid)**	Data Science	Delete
3	SV003	Michael Brown	michael.b@email.com **(Valid)**	Software Engineering	Delete