

Coding Task: Student Management System using Express, MySQL & EJS (50 Marks)

★ Objective:

Build a **Student Management System** using **Express.js**, **MySQL**, and **EJS** for rendering.

🔧 Task Requirements:

1. Database Setup

- Create a MySQL database.
- Add a students table with the following fields:
 - id (Primary Key, Auto Increment)
 - name (VARCHAR)
 - email (VARCHAR)
 - course (VARCHAR)

2. Project Initialization

- Install required packages: express, mysql2, ejs

3. CRUD Operations using Promises

- ✓ GET /students → List all students (render using EJS)
- + GET /students/add → Show form to add new student
- + POST /students → Insert student into database
- ➡ GET /students/edit/:id → Show form to edit student
- ➡ POST /students/update/:id → Update student info
- ✕ GET /students/delete/:id → Delete student

4. View Layer

- Use EJS to render views for:
 - Listing students in a table
 - Add/Edit forms
- Optional: Use layout.ejs as a master template.

5. Bonus (Optional +5 Marks)

- Add success/error flash messages using express-session and show them in EJS.
 - Add Bootstrap styling to enhance UI.
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✓ **Submission Guidelines:**

- Code must use **Promises** (.then())/catch() or async/await).
- Maintain a clean folder structure (routes, views, db, etc.).
- Submit your GitHub repo link or a zipped project folder.