

Innovation

Enhanced User Interface:

- Designed and implemented a responsive user interface using CSS to improve usability across devices.
- Added hover effects for buttons and links to improve user interaction and make the application visually appealing.

Add Lecturer Functionality

- Developed a feature to add new lecturers to the MongoDB database through a dedicated form.
- Included validation for lecturer details, ensuring:
 - lecturerId is unique.
 - Name length meets minimum requirements.
 - Department ID follows the expected format.
- Displayed clear error messages for invalid inputs or duplicate lecturerId entries.

Delete Student Functionality

- Added the ability to delete students from the MySQL database directly from the user interface.
- Implemented a confirmation dialog to prevent accidental deletions.
- Programmatically ensured cascading deletes for associated grades when a student is deleted, maintaining referential integrity without modifying the database schema.