JADAVPUR UNIVERSITY

Faculty of Engineering & Technology
...CSE/PC/B/S/321 Database Management System Lab...Engg
Laboratory

ClassCSE, UG3	. SecA1
Date of Experiment.	
Date of Submission.	•••••
Marks Obtained	•••••
Signature of Examine	r
<u>NAME</u>	<u>Roll</u>
Tootach Ahvol	002210501021
Jeetesh Abrol	002210501021
Title Develop GUI based database oriented ap	plication.
Commence at	Completed
at	•
Name of Teacher concerned: Prof. Sanjoy Kum	ar Saha

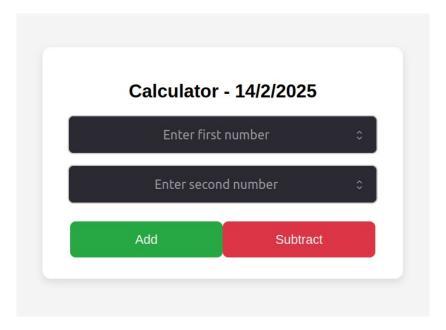
Application-1:Simple Calculator

Description:

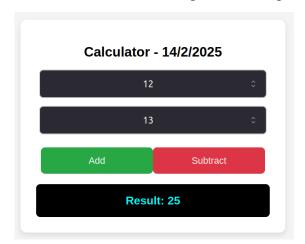
- The application allows users to enter two numbers.
- A button is provided to either add or find the difference.
- The result is displayed in the result box.
- The title bar of the application displays the current date when the form is loaded.

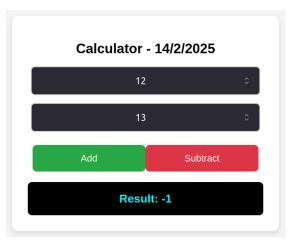
User Interactions and Observations:

• When the form is loaded:



• When add and subtract operations are performed:





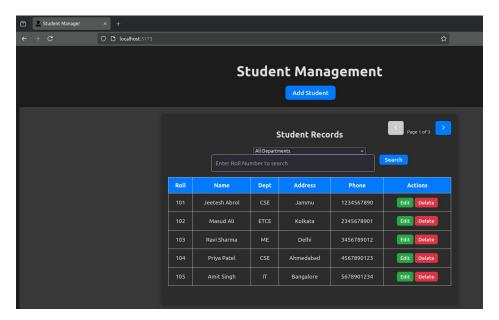
Application-2:Student-Manager

Description:

- The system manages a list of departments and students.
- It allows users to add, search, edit, delete, and display student records.
- Roll numbers must be unique.
- Users select a department name, and its corresponding department code is stored.
- Users can **SAVE** or **CANCEL** when adding/editing records.
- Searching, editing, and deleting work based on roll numbers.
- Student records are displayed in sets of five with **PREV/NEXT** buttons.

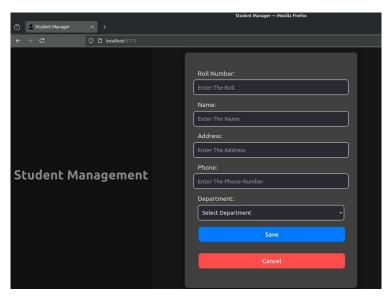
User Interactions and Observations:

1. When the page is loaded:

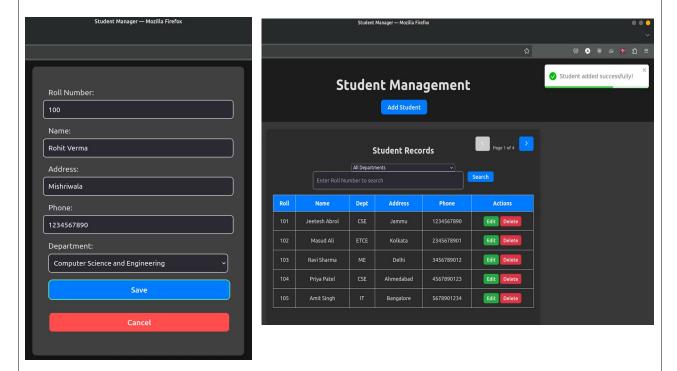


2. While adding a student:

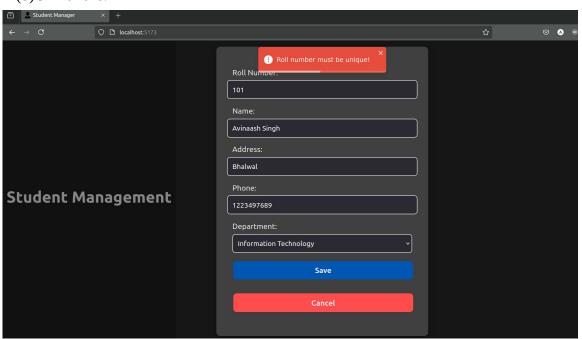
When form is loaded:



- When student is added:
 - a) On Success:

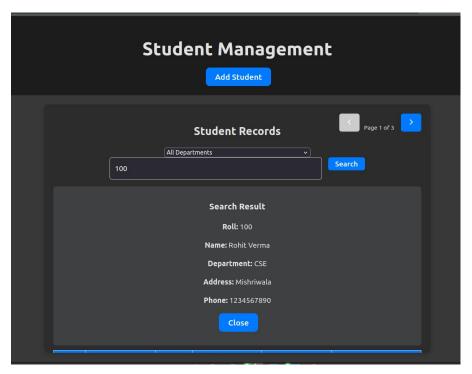


(b)On Failure:

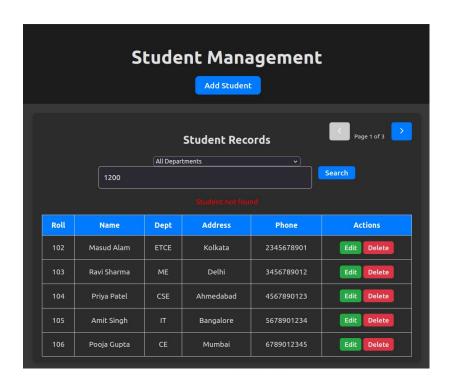


3) While searching a studnet:

a) if student exists:



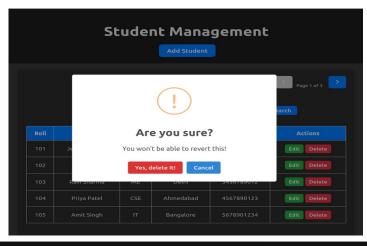
b) if student does not exist:

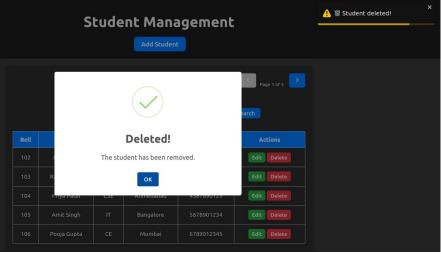


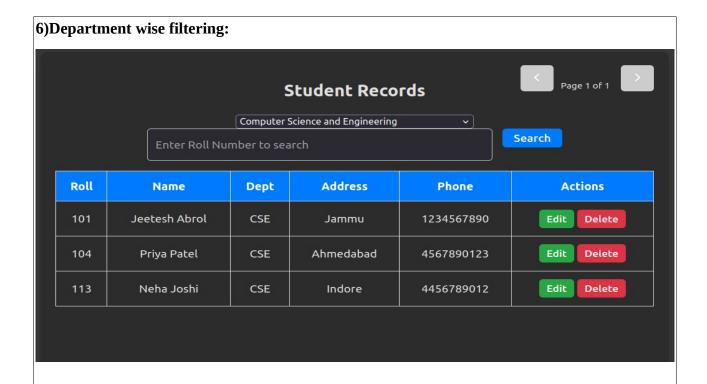
4) Editing a student:



5)Deleting a student:







Conclusion:

1. User-Friendly Interface:

The applications provide a simple and interactive GUI, allowing smooth user interaction for calculations and student record management.

2. Efficient Data Handling:

Features like unique roll number validation, dropdown department selection, and proper error handling ensure data integrity and accuracy.

3. Dynamic and Responsive UI:

The interface updates in real-time based on user input, providing immediate feedback for actions like adding, searching, editing, and deleting records.

4. Smooth Navigation:

The student records are displayed in batches of five, with **PREV/NEXT** buttons ensuring easy navigation while preventing unnecessary scrolling.