STUDENT MANAGEMENT SYSTEM – RAHITHA JUGALE R

TECHNOLOGIES USED:

- MongoDB
- Java, Spring Boot Framework, REST API
- HTML5, CSS3, React JS

BACKEND:

- When the project is started, a database called **studentDetails** and a collection called **student** are created.
- Each document in the collection will have the following fields:
    - ✓ **id:** is generated while inserting a new record and will have the pattern like R-001, R-002, etc.
    - ✓ **name:** stores the student's name
    - ✓ **dateOfBirth:** stores the student's DOB
    - ✓ **studentClass:** stores the student's class
    - ✓ **division:** stores the student's division
    - ✓ **gender:** stores the student's gender
    - ✓ **isActive:** is set to true during insertion. Is set to false during deletion
    - ✓ **createdAt:** stores the date and time of creation of document
    - ✓ **updatedAt:** stores the date and time every time the document is updated.

FRONTEND:

Add/Update Form:

- The Name field will accept name only when user enters name with minimum 3 characters and maximum 25 characters. Name must start with capital letter. Name must contain only alphabets and spaces.
- The Date of birth field has a date picker which displays date starting from 17 years ago to 5 years ago in order to stop user from entering illegal dates for student details. For example, a student studying in class IV cannot have DOB as '14-03-1999'. Hence dates are restricted.
- Also when user submits the form, Date Of Birth and the Class are checked if they are valid. Age is calculated and checked with the corresponding class. If invalid, user cannot add a new student. For example, if the age is 5 or 6, the student can be in class I or class II and so forth.
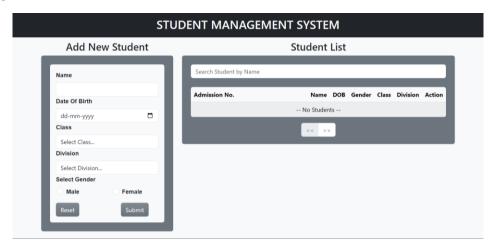- All fields are required to submit the form.

Search:

- Search is case sensitive. Enter the student's name to be searched or any character from the student's name. Corresponding list of students will be shown.
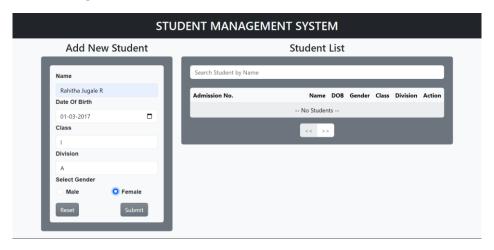
Delete:

- On clicking delete, a pop-up appears to confirm the action. If you wish to proceed, click ok and the record will be deleted. Note that, the record will still be present in the database but the isActive field will be set to false and the corresponding document will not be fetched during listing.

Project screenshots:
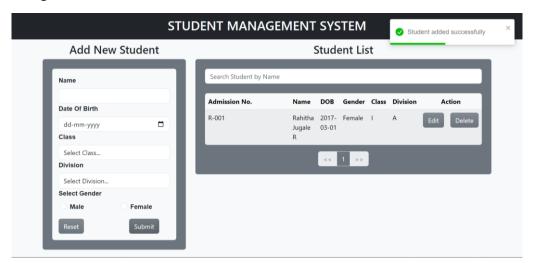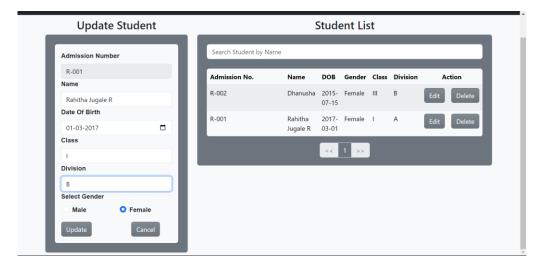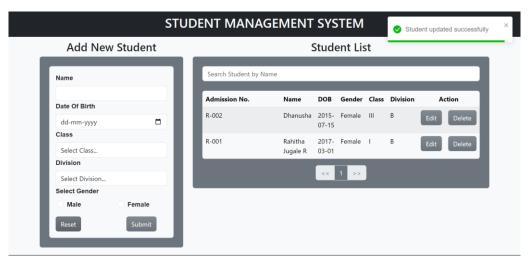
Initial Page:

Filling details for adding new student:
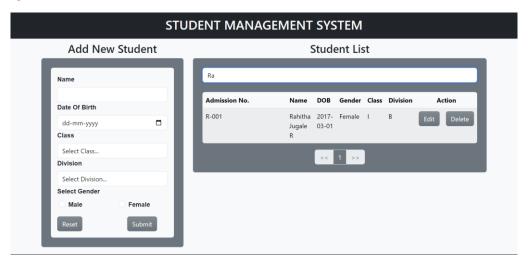

Upon clicking submit button:

Editing details of a student:

Upon clicking update button after editing:

Searching for a student:

Deleting a student:

localhost:3000 says

Do you really want to delete the student?

OK   Cancel

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Add New Student

Student List

Name

Date Of Birth

dd-mm-yyyy

Class

Select Class...

Division

Select Division...

Select Gender

○ Male   ○ Female

Reset   Submit

Search Student by Name

Admission No.	Name	DOB	Gender	Class	Division	Action
R-002	Dhanusha	2015-07-15	Female	III	B	Edit Delete
R-001	Rahitha Jugale R	2017-03-01	Female	I	B	Edit Delete

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Add New Student

Student List

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Division

Select Division...

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○ Male   ○ Female

Reset   Submit

Search Student by Name

Admission No.	Name	DOB	Gender	Class	Division	Action
R-001	Rahitha Jugale R	2017-03-01	Female	I	B	Edit Delete

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