

# studentCollegeFest

*Above* project uses Spring MVC along with Hibernate ORM to perform basic CRUD operations on College Fest Registration Portal.

The model *Student* has 3 visible as well as 1 hidden attribute.

- They are ->
1. *Id* (hidden)
  2. *Name*
  3. *Department*
  4. *Country*

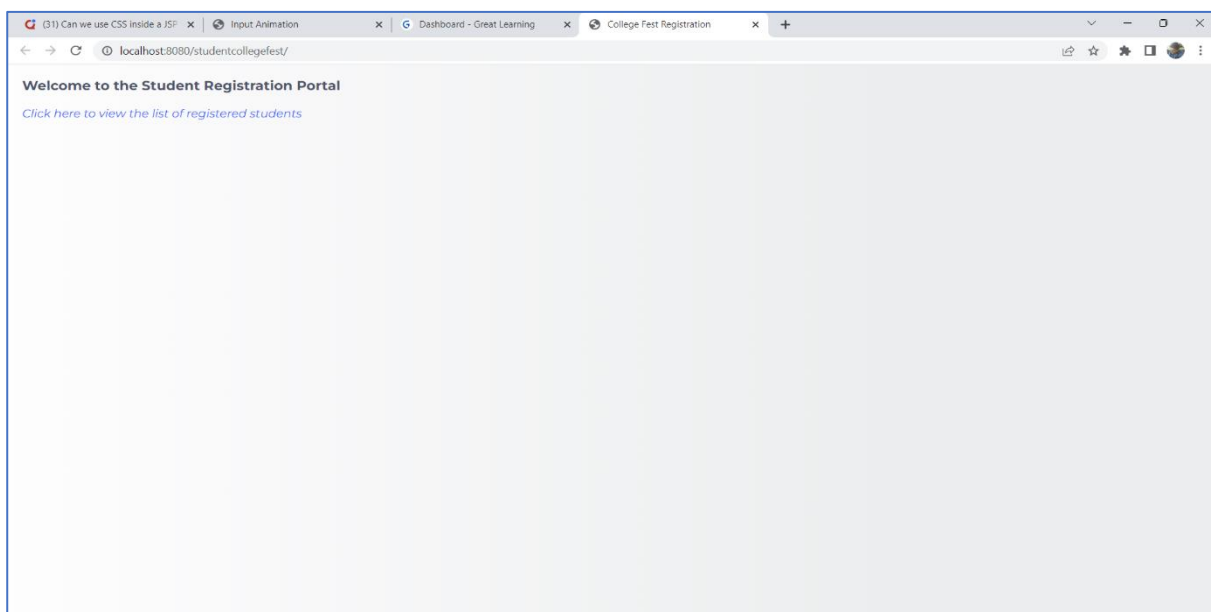
The application performs following functions ->

1. **Create** a new Student record
2. **Read** and display existing records
3. **Update** existing records and save any changes
4. **Delete** from existing records

We shall further see each of these functionalities in greater detail

## The Main page

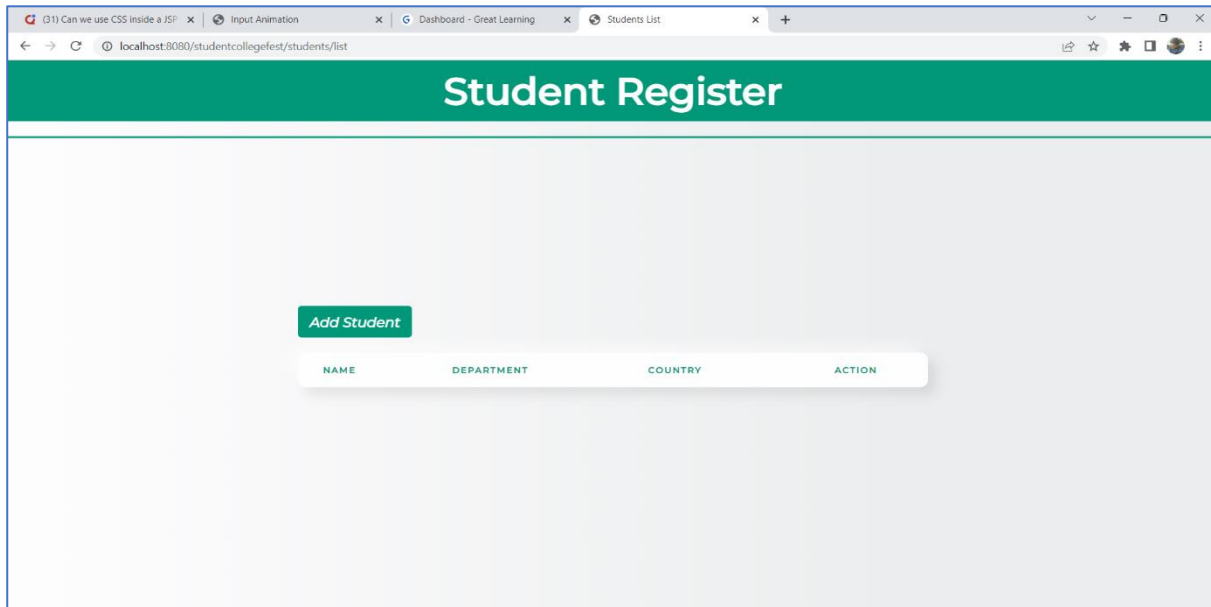
This is the default page that gets loaded when the application is booted on Tomcat server. It has a welcome message and link to **Student** list page.



## Student List page

Upon clicking on before mentioned link, we arrive at Student list page. This page contains a header, a table and an **Add Student** button.

There are no records to be shown yet.



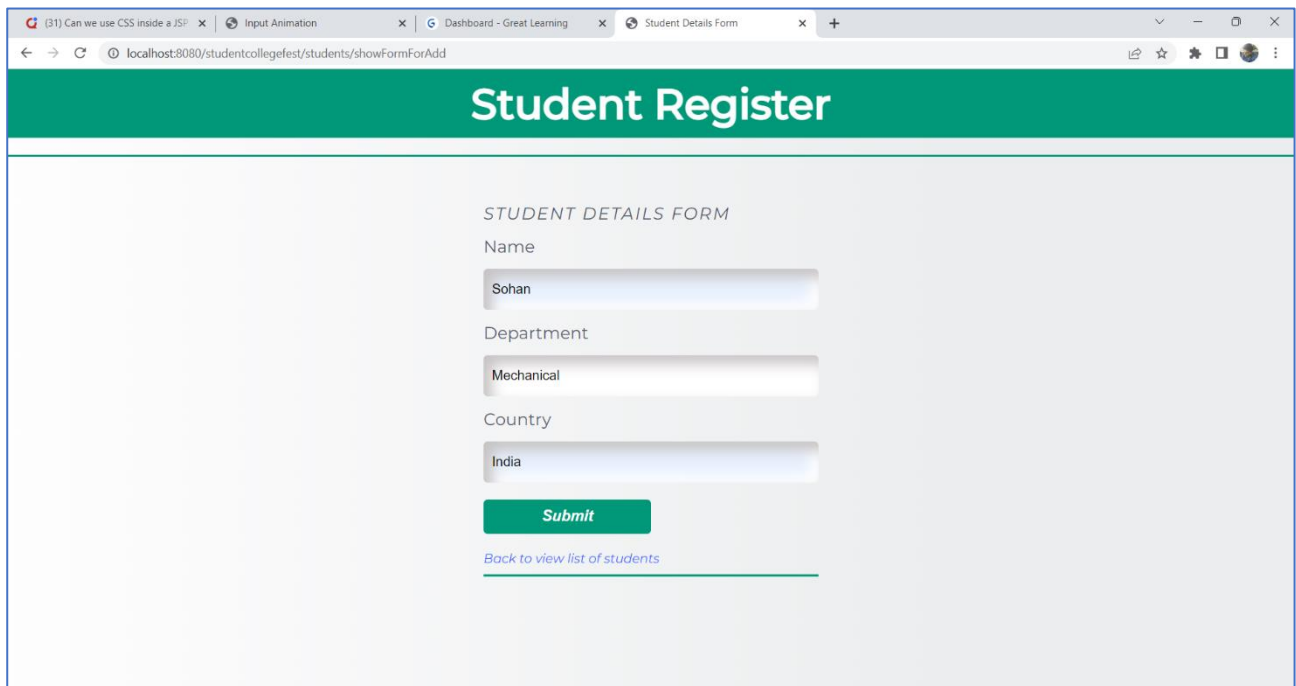
The table has 4 columns. First three of which are customer attributes whereas the fourth column is an action column. This column will display the action buttons viz. **Update** and **Delete**.

Clicking on **Add Student** button takes us to student form page.

## Student Form page

A screenshot of a web browser displaying the 'Student Register' page, specifically the 'STUDENT DETAILS FORM'. The page has a green header with the title 'Student Register'. Below the header, there is a form titled 'STUDENT DETAILS FORM'. The form contains three input fields: 'Name' (with a placeholder 'Eg: John'), 'Department' (with a placeholder 'Eg: IT'), and 'Country' (with a placeholder 'Eg: India'). Below the input fields is a green button labeled 'Submit'. At the bottom of the form, there is a link that says 'Back to view list of students'.

This page has a header row displaying text “Student Details Form”. Below it are the 3 fields along with their labels followed by the **Submit** button



Student Register

STUDENT DETAILS FORM

Name

Sohan

Department

Mechanical

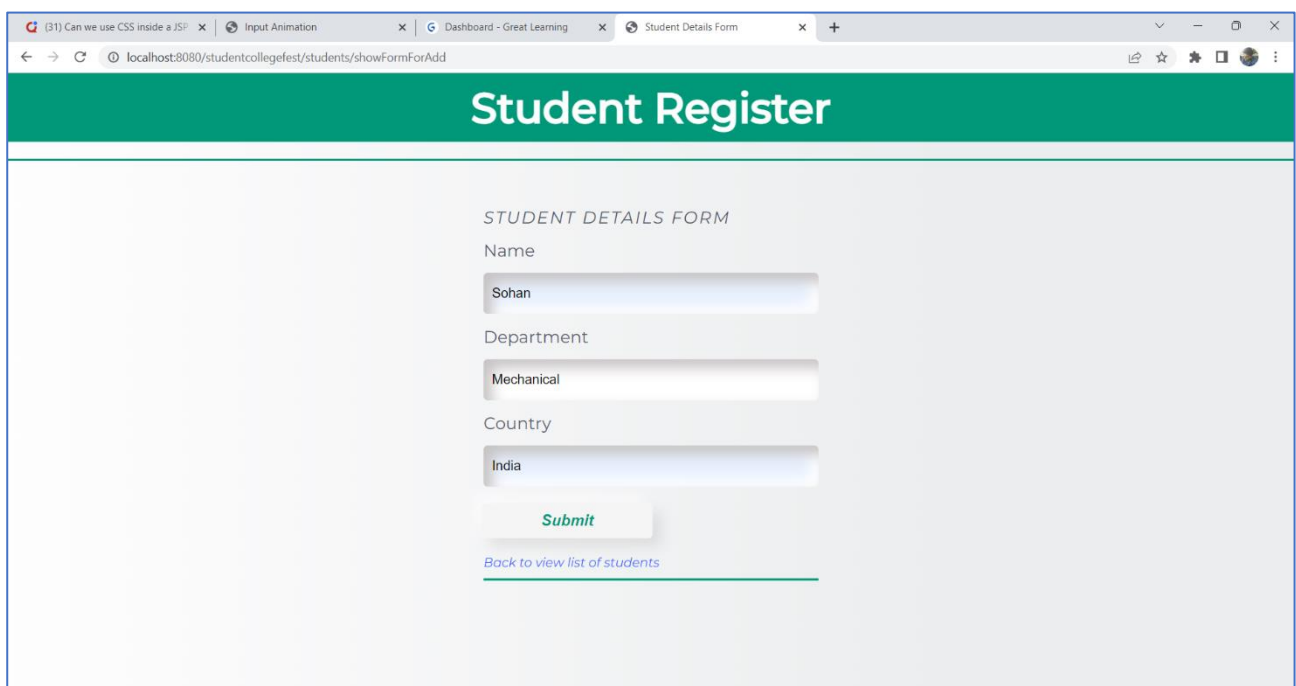
Country

India

Submit

[Back to view list of students](#)

The submit button and text fields have Neumorphic design. The **Submit** button changes its appearance when cursor hovers over it.



Student Register

STUDENT DETAILS FORM

Name

Sohan

Department

Mechanical

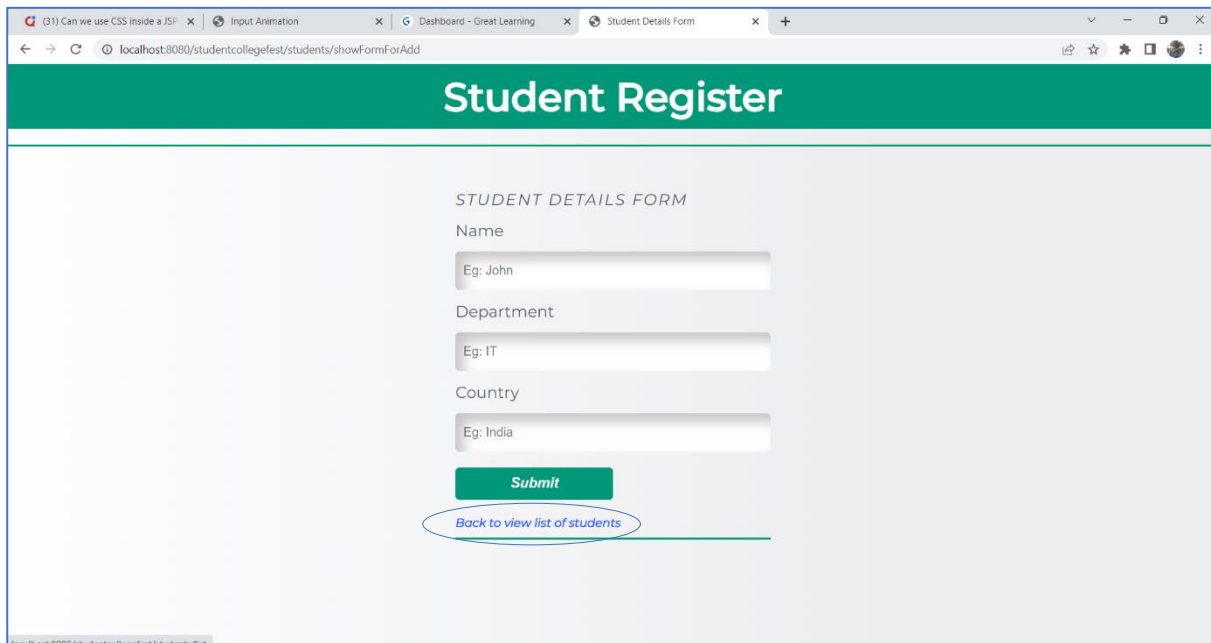
Country

India

Submit

[Back to view list of students](#)

At the very end is provided a link to go back to student list page.



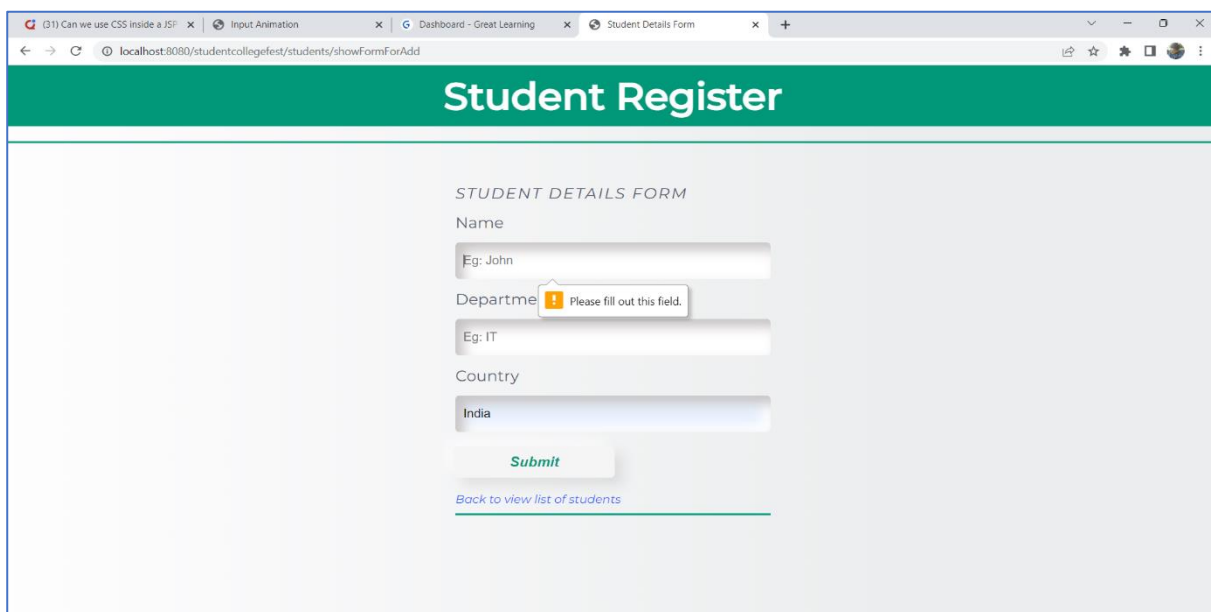
The screenshot shows a web browser window with the URL `localhost:8080/studentcollegefest/students/showFormForAdd`. The page has a green header with the text "Student Register". Below the header is a form titled "STUDENT DETAILS FORM". The form contains three input fields: "Name" with a placeholder "Eg: John", "Department" with a placeholder "Eg: IT", and "Country" with a placeholder "Eg: India". Below these fields is a green "Submit" button. At the bottom of the form, there is a blue link that says "Back to view list of students".

On clicking the **Submit** button, the newly entered records are displayed on student list page.

### #Note->

*The Name and Department fields are required fields which have to be populated before submitting the details.*

*A warning message displays when we click on **Submit** button without entering data as per convention in those fields.*



The screenshot shows the same "Student Register" form as before, but now with a validation error. The "Department" field has a yellow warning icon and a message that says "Please fill out this field." The "Name" field is also highlighted in blue. The "Submit" button is still green, and the "Back to view list of students" link is still present at the bottom.

*Name is a required field*

The screenshot shows a web browser window with the URL `localhost:8080/studentcollegefest/students/showFormForAdd`. The page has a green header with the text "Student Register". Below the header, the form is titled "STUDENT DETAILS FORM". It contains three input fields: "Name" with the value "Ravi", "Department" with the value "Eg: IT", and "Country" with the value "India". A red error message "Please fill out this field." is displayed next to the "Department" field. Below the fields is a green "Submit" button and a link "Back to view list of students".

STUDENT DETAILS FORM

Name

Ravi

Department

Eg: IT

Country

Please fill out this field.

India

Submit

[Back to view list of students](#)

*Department is a required field*

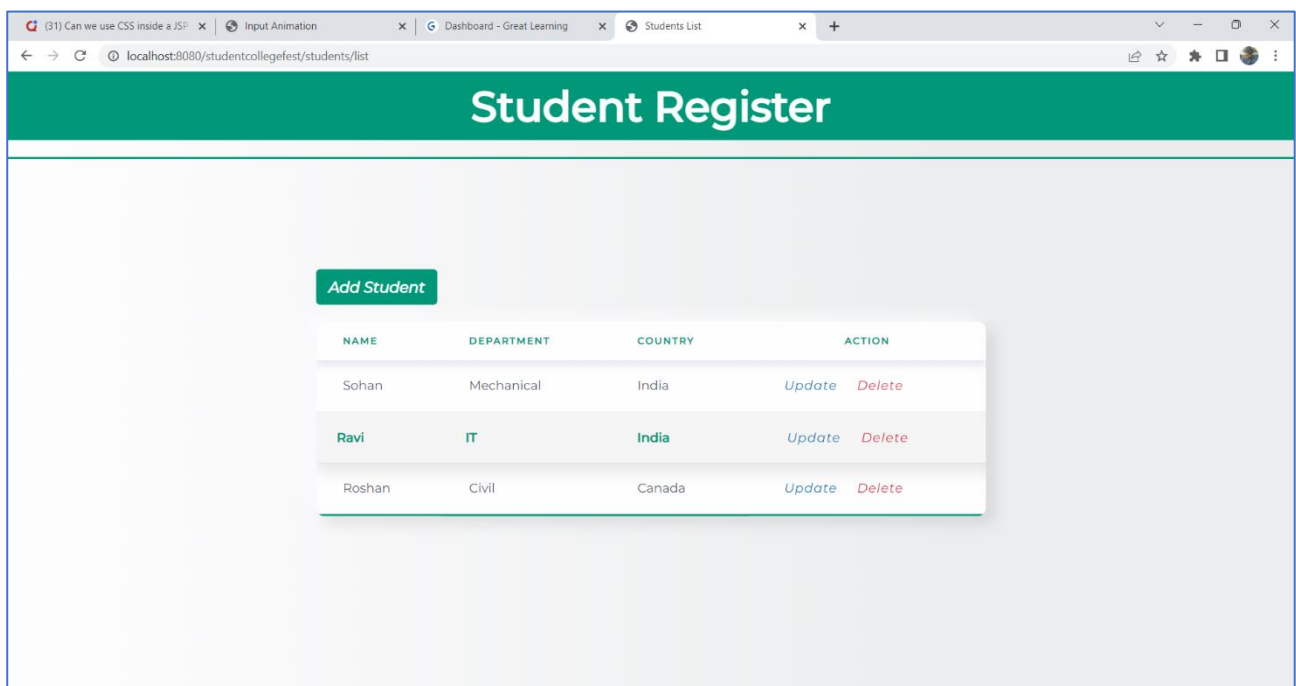
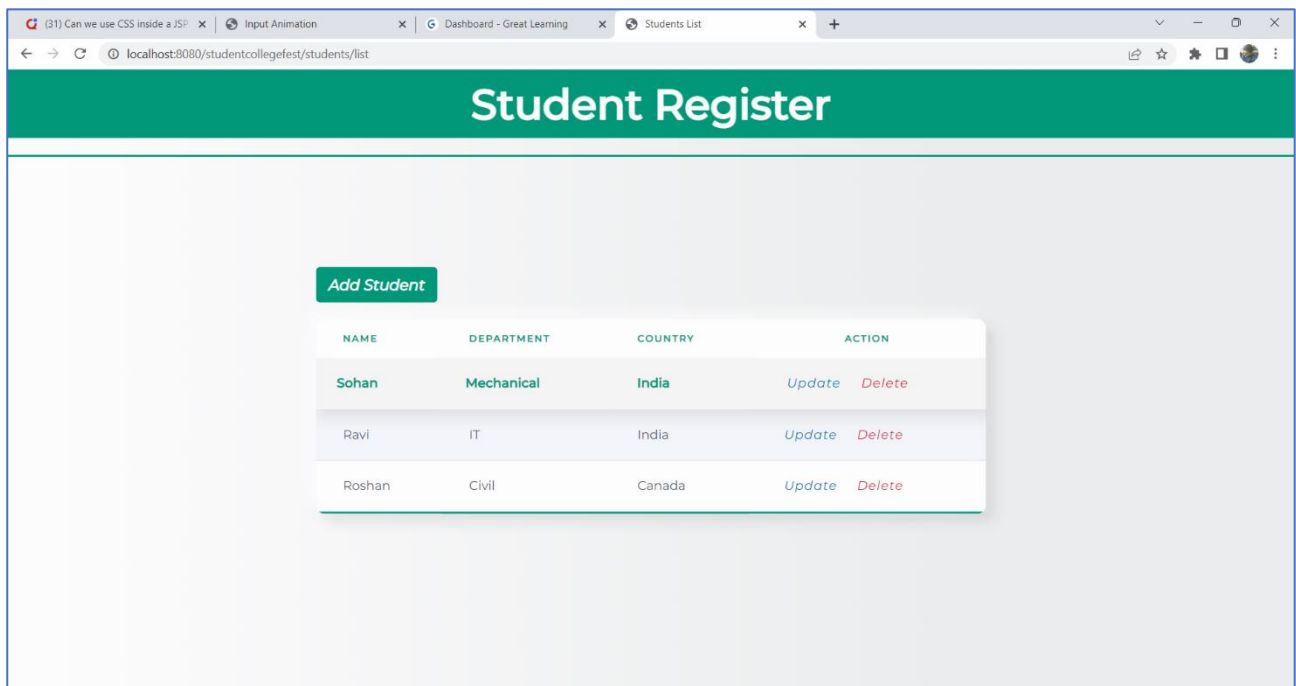
## Student table

The entered records get displayed on student list page.

The screenshot shows a web browser window with the URL `localhost:8080/studentcollegefest/students/list`. The page has a green header with the text "Student Register". Below the header, there is a green "Add Student" button and a table of student records.

| NAME  | DEPARTMENT | COUNTRY | ACTION                                        |
|-------|------------|---------|-----------------------------------------------|
| Sohan | Mechanical | India   | <a href="#">Update</a> <a href="#">Delete</a> |

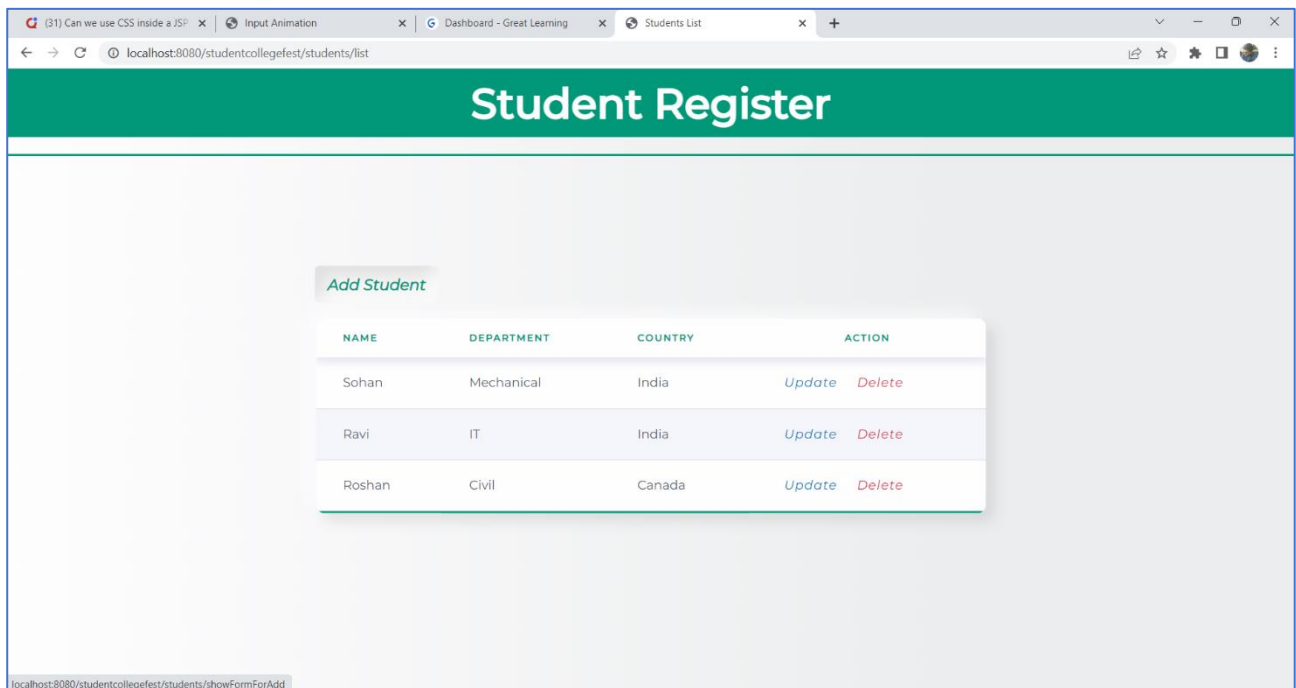
User can further add more records.



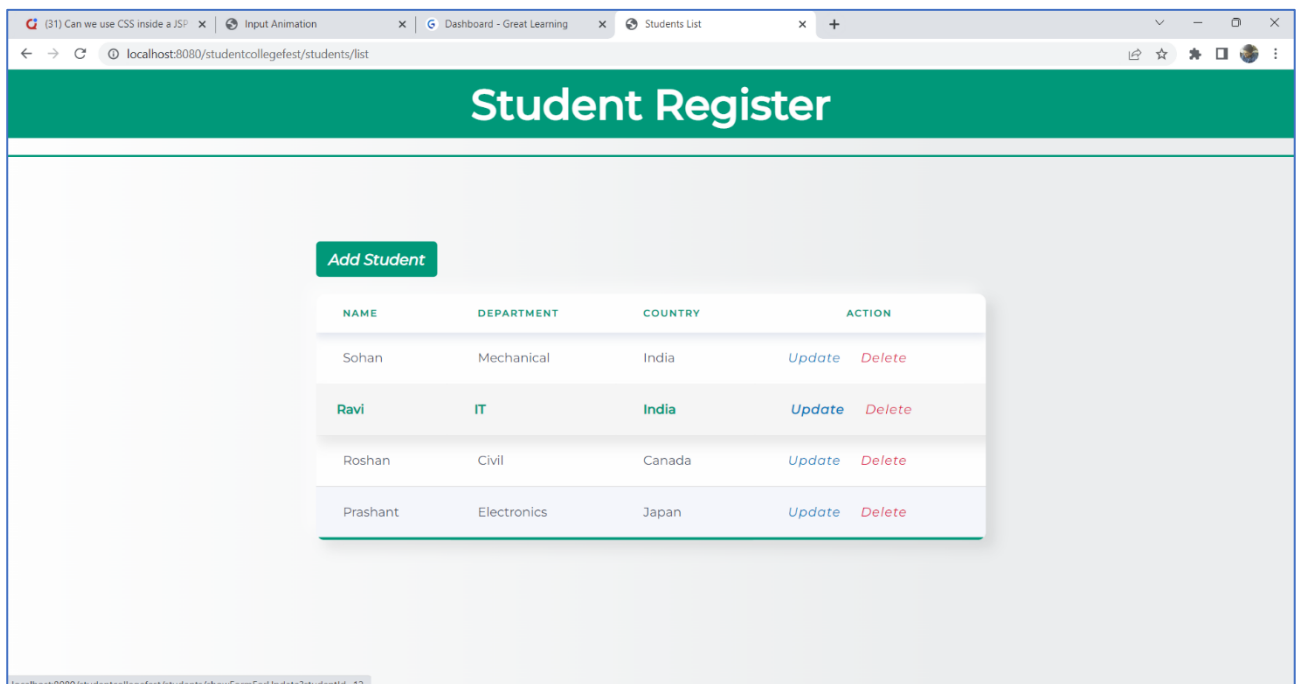
Both the **Add Student** and table body rows change appearance when cursor hovers on them.

While the rows get slightly enlarged (by 2%) and the inline text changes in colour, size and thickness.

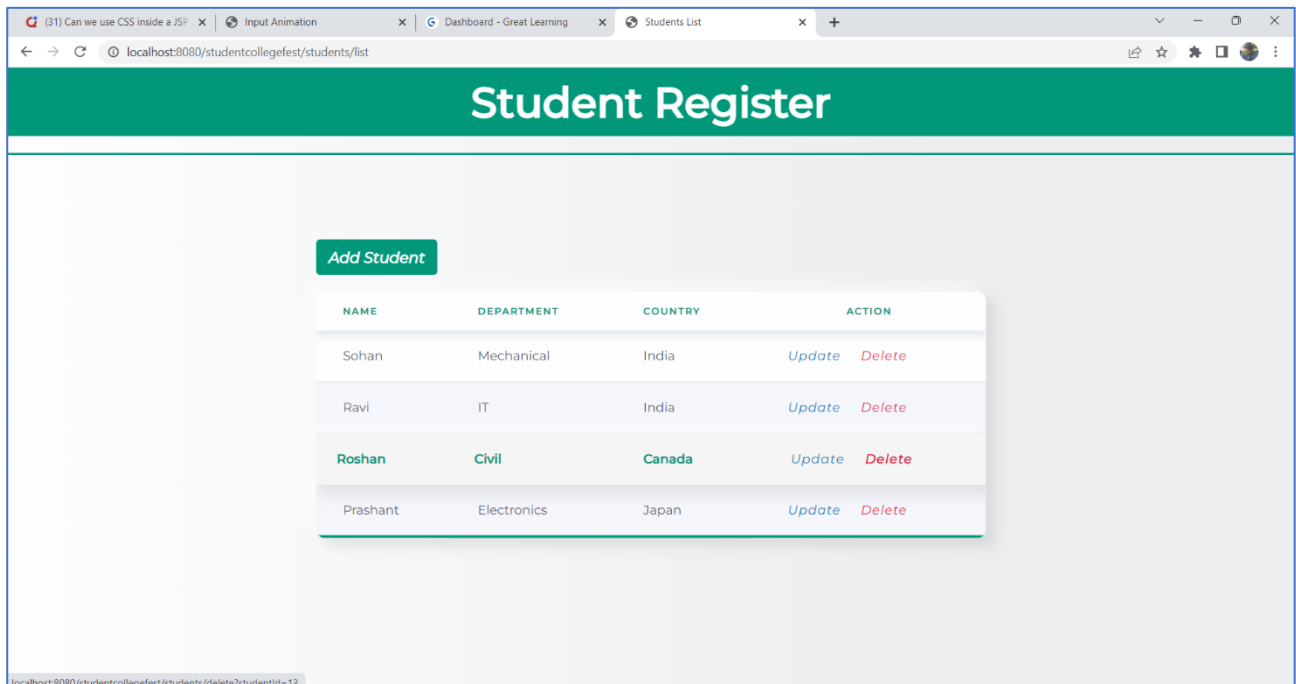
Whereas the **Add Student** button takes appearance of an inset button.



Similarly, the **Update** and **Delete** hyperlinks increase in font-weight when the cursor hovers on them.



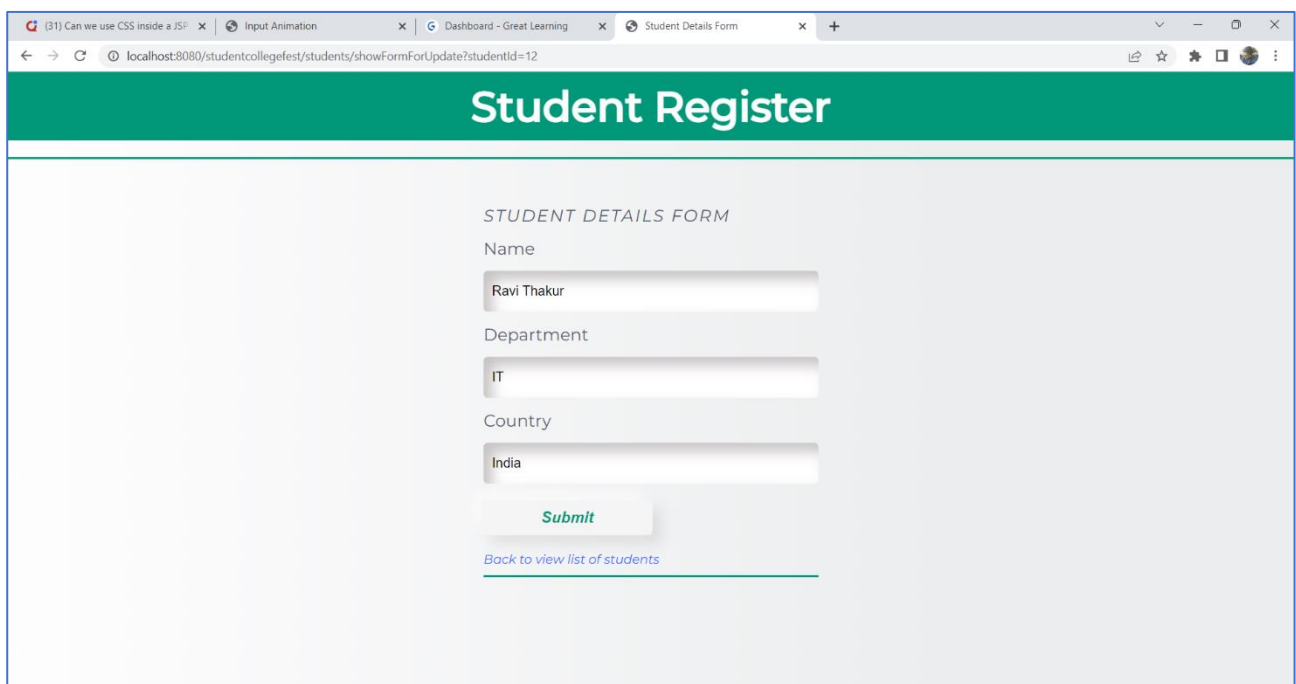
*Update link hover*



*Delete link hover*

On clicking the **Update** link, the “Student details” form gets loaded, pre-populated with existing data.

User can make necessary changes and click on **Submit** button.

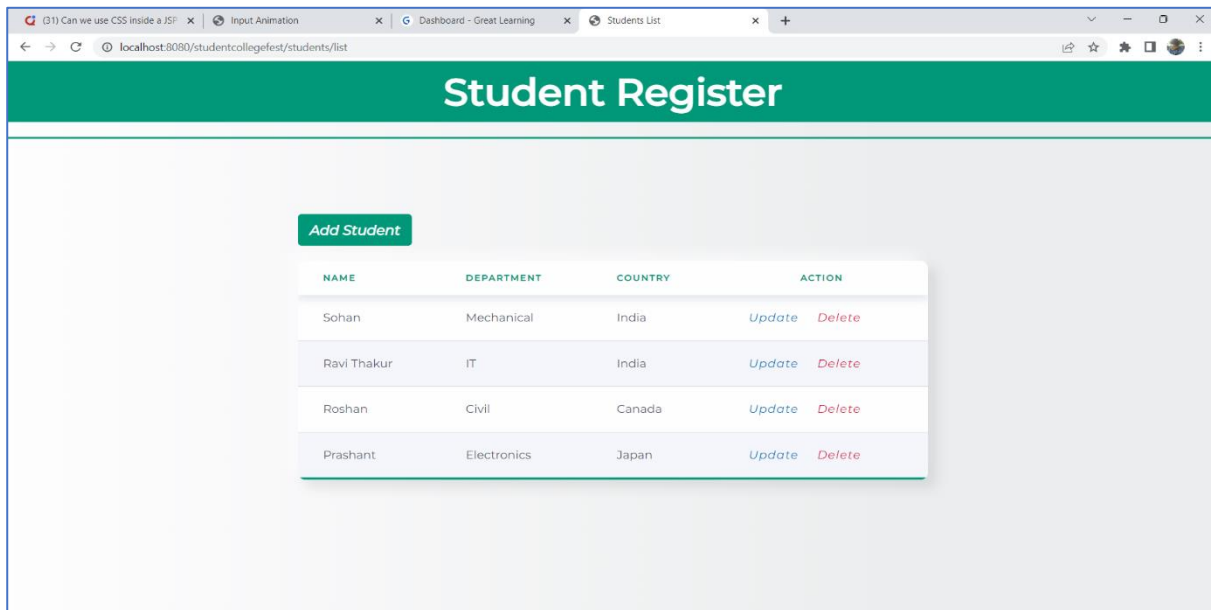




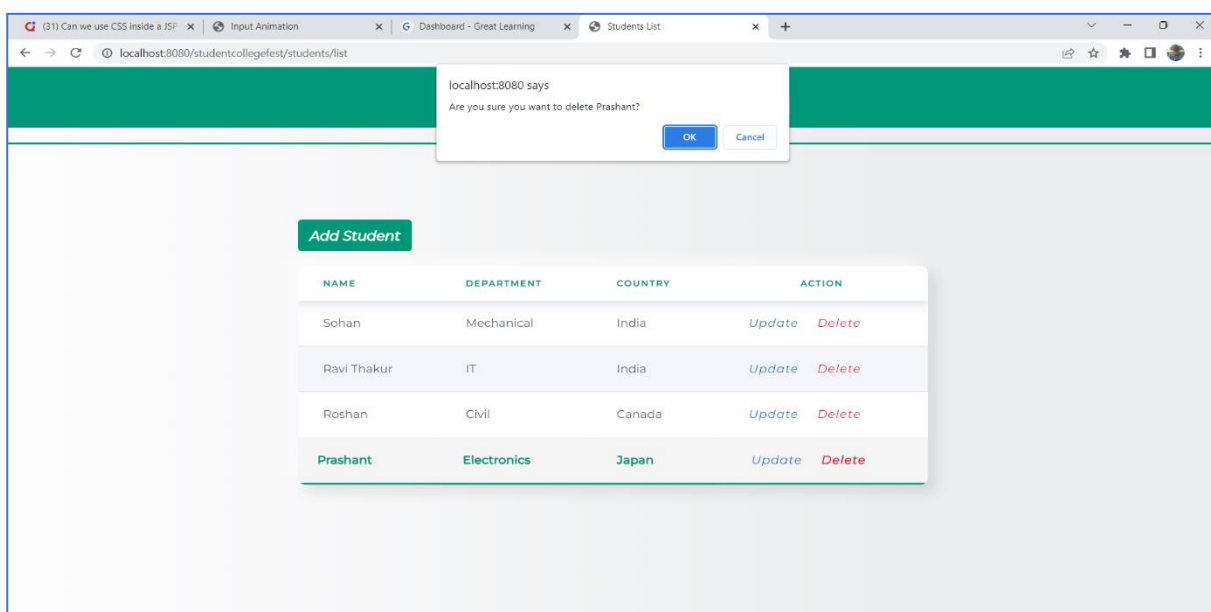
After clicking on **Submit** button. The updated record gets displayed on student list page.

*Eg:* Name *Ravi* is updated to *Ravi Thakur*

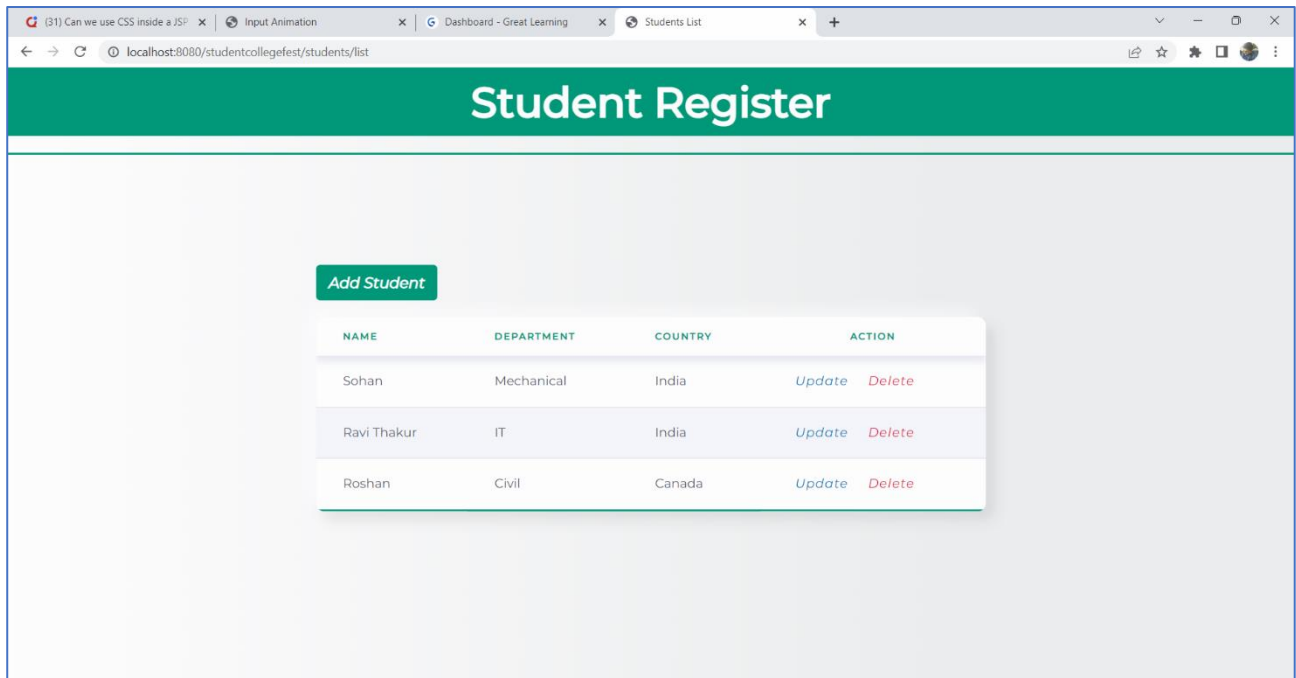
Here we see the record has been updated!



Finally, on clicking the **Delete** link, a message pops up on the page asking to confirm whether to delete the concerned record from database.



On confirmation, the concerned record gets deleted while remaining records are displayed on the page.



*Prashant's records are deleted*

Thus, we have successfully checked all the functionalities of our Spring MVC project for College Fest Registration Portal.

**Thank you!**

### #Note->

Please note that there is a minor jitter in the header row whenever the cursor hovers over last row of table. I however couldn't deduce the exact reason for that bug.

Also you will find a video recording of this project on my google drive. Link to which I've shared below.

[https://drive.google.com/drive/folders/14Ji3uxexF9MAJ0v2\\_7xj6zHzQv73\\_2KH?usp=sharing](https://drive.google.com/drive/folders/14Ji3uxexF9MAJ0v2_7xj6zHzQv73_2KH?usp=sharing)

Thanks again!