

## EXPERIMENT NO. 9: AJAX

|                 |                   |
|-----------------|-------------------|
| Name of Student | Rohan Lalchandani |
| Class Roll No   | D15A_25           |
| D.O.P.          | 03/04/2025        |
| D.O.S.          | 10/04/2025        |
| Sign and Grade  |                   |

**AIM :** To study AJAX

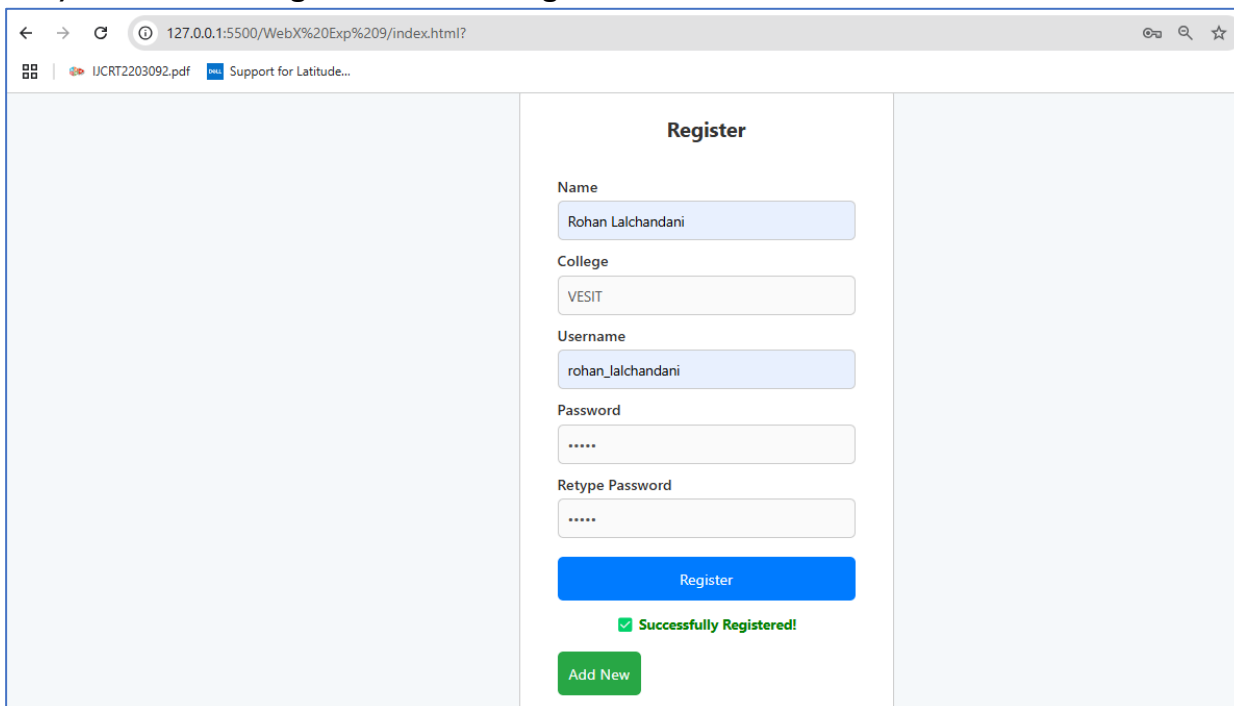
### **OVERVIEW OF TASKS PERFORMED :**

In this experiment, AJAX was used to create an asynchronous registration form where users could input their Name, College, Username, and Password. The form included validation checks to ensure the Name field was not empty, the Username was unique, and the Password and Confirm Password fields matched. An auto-suggestion feature was implemented for the College field. Upon successful registration, a confirmation message was displayed, and the form was disabled. The use of AJAX enabled real-time validation and dynamic updates without page reloads, enhancing the user experience and streamlining the registration process.

**GITHUB LINK -** [https://github.com/Rohan-Lalchandani08/WebX\\_Lab/tree/main/WebX%20Exp%209](https://github.com/Rohan-Lalchandani08/WebX_Lab/tree/main/WebX%20Exp%209)

### **OUTPUT:**

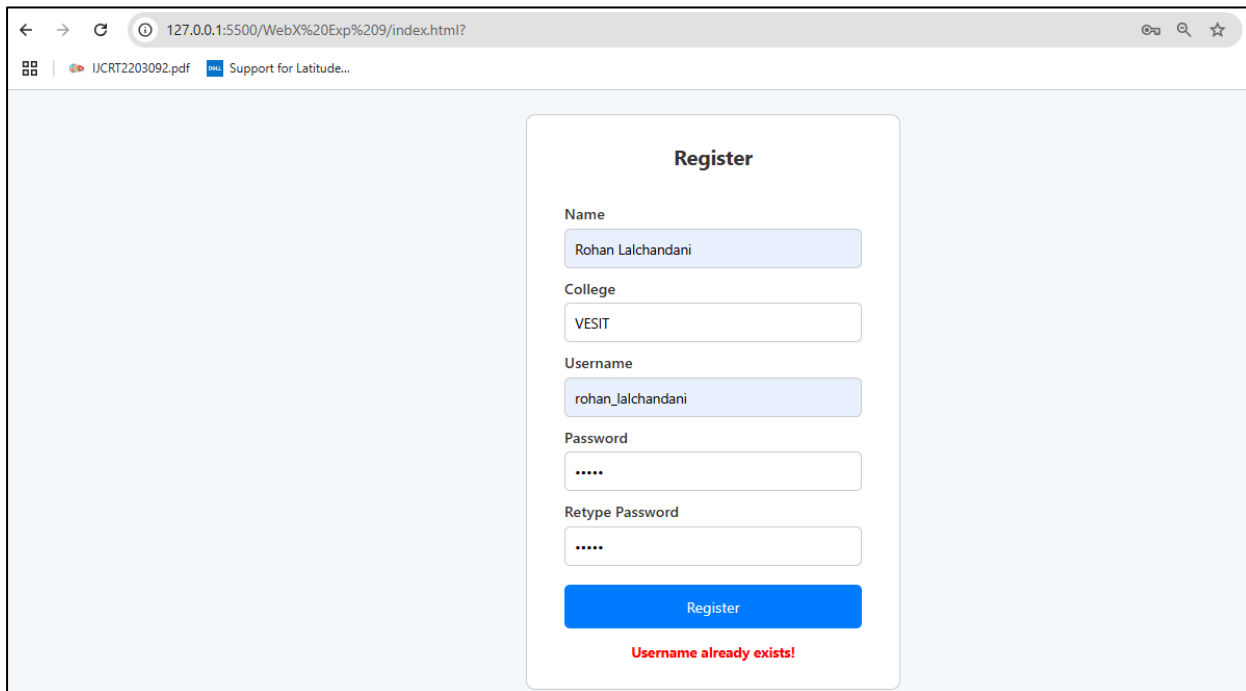
#### **a)Successful Registration Message**



The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5500/WebX%20Exp%209/index.html?". The page content is a registration form titled "Register". The form fields are: Name (Rohan Lalchandani), College (VESIT), Username (rohan\_lalchandani), Password (\*\*\*\*\*), and Retype Password (\*\*\*\*\*). A blue "Register" button is at the bottom of the form. Below the button, a green checkmark icon is followed by the text "Successfully Registered!". At the very bottom, there is a green "Add New" button.

This screenshot shows the **"Successfully Registered!"** message, which appears after a successful registration.

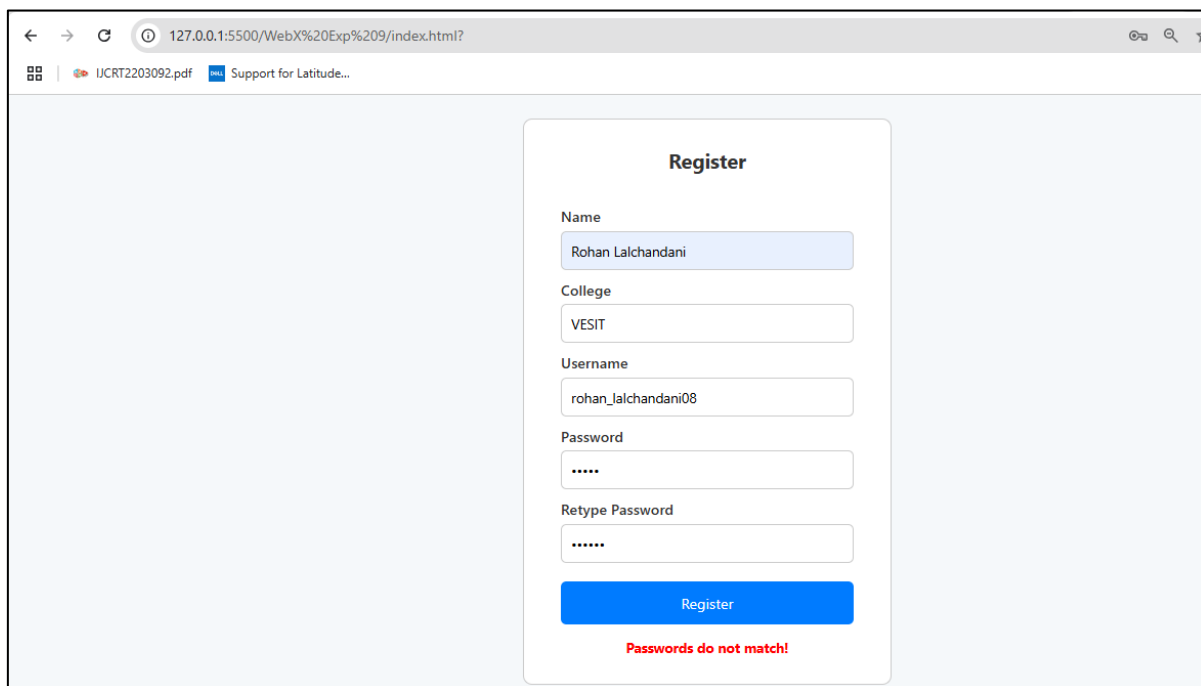
## b) Duplicate Username Validation



The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5500/WebX%20Exp%209/index.html?". The browser tabs include "IJCRT2203092.pdf" and "Support for Latitude...". The main content area displays a "Register" form with the following fields: Name (Rohan Lalchandani), College (VESIT), Username (rohan\_lalchandani), Password (masked with dots), and Retype Password (masked with dots). A blue "Register" button is at the bottom of the form. Below the button, a red error message states "Username already exists!".

This screenshot validates that the **Username is not already in use**, preventing duplicate entries

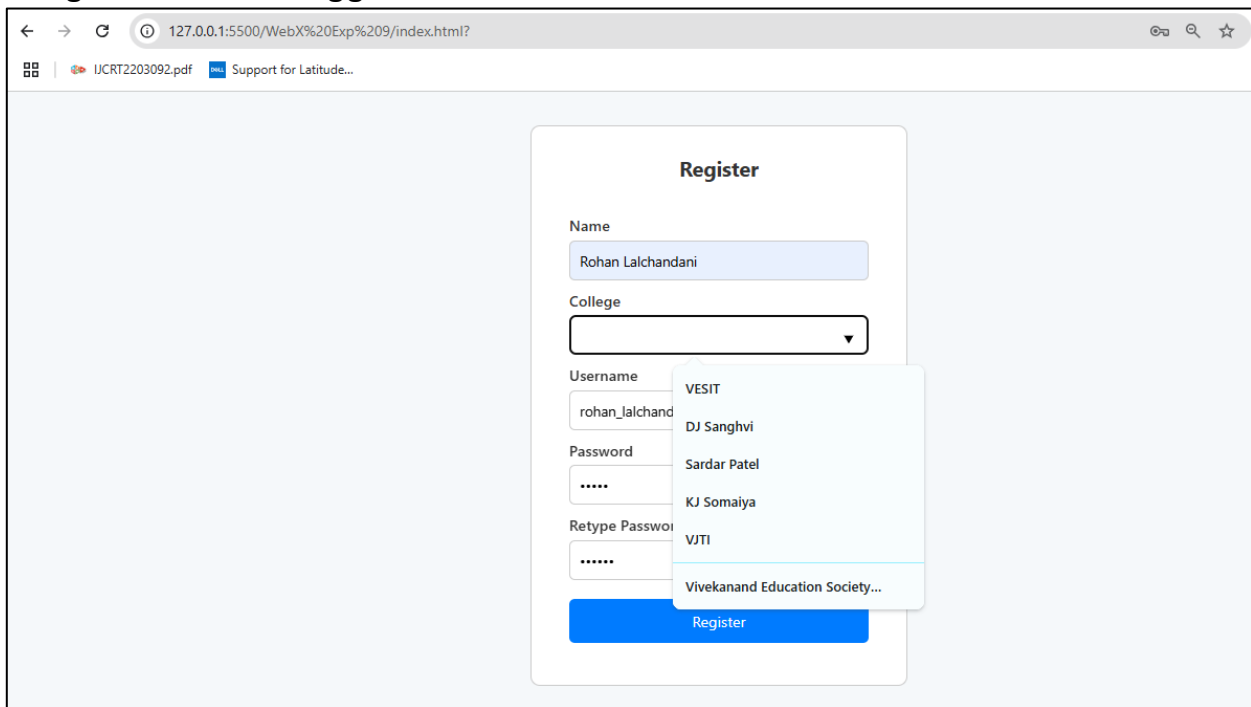
## c) Password Match Confirmation



The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5500/WebX%20Exp%209/index.html?". The browser tabs include "IJCRT2203092.pdf" and "Support for Latitude...". The main content area displays a "Register" form with the following fields: Name (Rohan Lalchandani), College (VESIT), Username (rohan\_lalchandani08), Password (masked with dots), and Retype Password (masked with dots). A blue "Register" button is at the bottom of the form. Below the button, a red error message states "Passwords do not match!".

This screenshot confirms that the **Password and Re-typed Password match**, ensuring data integrity.

#### d) College Name Auto-suggestion



The screenshot shows a web browser window with the address bar displaying '127.0.0.1:5500/WebX%20Exp%209/index.html?'. The browser tabs include 'UCRT2203092.pdf' and 'Support for Latitude...'. The main content area features a 'Register' form with the following fields and values:

- Name:** Rohan Lalchandani
- College:** A dropdown menu is open, showing a list of suggested college names: VESIT, DJ Sanghvi, Sardar Patel, KJ Somaiya, VITI, and Vivekanand Education Society... (truncated).
- Username:** rohan\_lalchandani
- Password:** \*\*\*\*\*
- Retype Password:** \*\*\*\*\*

A blue 'Register' button is located at the bottom of the form.

This screenshot demonstrates the **auto-suggestion feature for the College field**, where users can choose from suggested college names.

#### CONCLUSION:

The experiment successfully demonstrated the use of the **XMLHttpRequest object** to implement **AJAX-based asynchronous form submission and validation**. Key features such as **form field validation**, **duplicate username detection**, **password match checking**, and **college name auto-suggestions** were efficiently implemented without reloading the page. This experiment highlighted the effectiveness of **AJAX in enhancing user experience** by allowing **dynamic content updates** and **real-time feedback** during user interaction.