

EXPERIMENT NO. 9: AJAX

Name of Student	Anuprita Mhapankar
Class Roll No	D15A_28
D.O.P.	03/04/2025
D.O.S.	10/04/2025
Sign and Grade	

AIM : To study AJAX

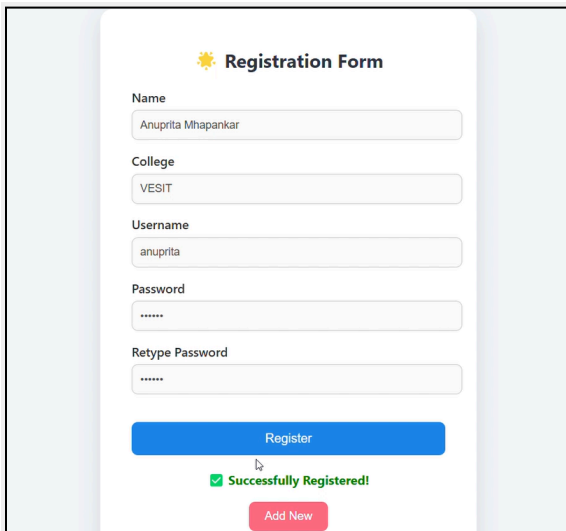
OVERVIEW OF TASKS PERFORMED :

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/Anuprita2022-26/WebX_Exp9

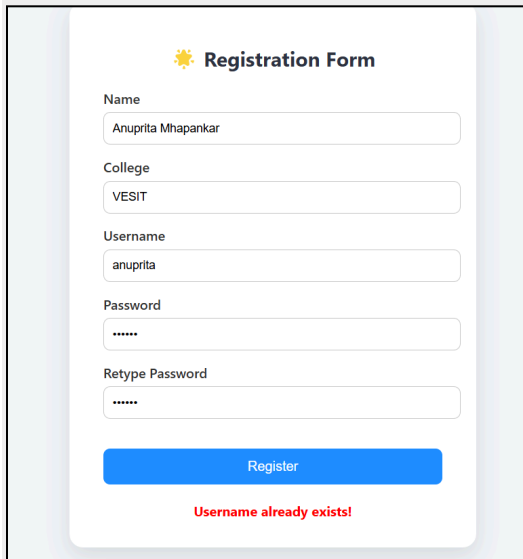
OUTPUT:

a) Successful Registration Message

A screenshot of a web application's registration form. The form is titled "Registration Form" with a sun icon. It contains five input fields: "Name" (filled with "Anuprita Mhapankar"), "College" (filled with "VESIT"), "Username" (filled with "anuprita"), "Password" (filled with "*****"), and "Retype Password" (filled with "*****"). Below the fields is a blue "Register" button. A green checkmark icon and the text "Successfully Registered!" are displayed below the button. At the bottom, there is a red "Add New" button.

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

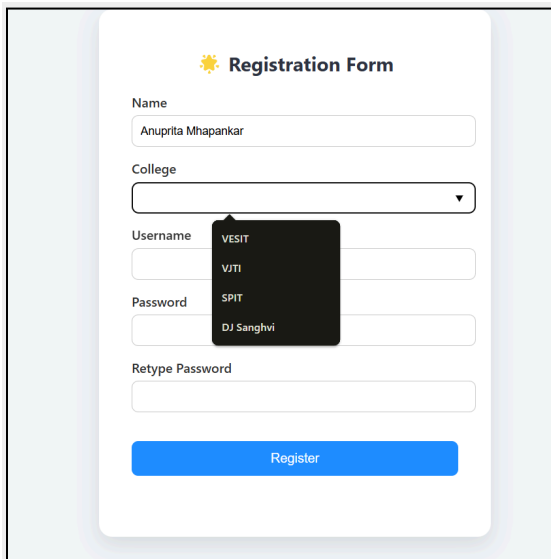
b) Duplicate Username Validation



The screenshot shows a registration form titled "Registration Form" with a sun icon. The form contains the following fields: Name (Anuprita Mhapankar), College (VESIT), Username (anuprita), Password (masked with dots), and Retype Password (masked with dots). A blue "Register" button is at the bottom. 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) College Name Auto-suggestion



The screenshot shows the same registration form as in (b). The College field is a dropdown menu with a list of suggestions: VESIT, VJTI, SPIT, and DJ Sanghvi. The Username field is empty. The Password and Retype Password fields are masked with dots. A blue "Register" button is at the bottom.

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.