COLLEGECODE:9528
COLLEGE NAME: SCAD COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT COMPUTER SCIENCE ENGINEERING

STUDENT NM ID: BE8E860DE4B96978D3E4C13F359FD5F1

Roll no : 952823104167

DATE : 24.10.2025

Completed the project named as:

Phase 5

TECHNOLOGYPROJECTNAME : **USER REGISTERATION AND VALIDATION**

SUBMITTED By,

NAME: SUVETHA M

MOBILE: 9342663469

Phase 5-Project demonstration and validation

1.Final Demo Walkthrough

The final demo walkthrough of the User Registration and Validation project provides a comprehensive overview of the system's complete functionality from start to finish. It begins with the user accessing the registration form, where fields such as name, email address, password, and confirm password are entered. The demo highlights real-time validation for each field, ensuring that users are immediately notified if they enter invalid or incomplete information. For example, the system checks if the email address follows the correct format, if the password meets the required strength criteria, and if both password fields match. Upon successful input, the system stores the data securely in the database and displays a confirmation message. The walkthrough also includes error handling
demonstrations for invalid or duplicate entries, providing a clear understanding of how the application maintains data integrity and user security.

Project Report:

The project report provides a detailed insight into the design, development, and implementation of the User Registration and Validation system. The primary objective of the project is to build a reliable registration platform that verifies user details before storing them in the database, thereby reducing the chances of invalid data and enhancing security. The report explains the motivation behind the project, its scope, and its importance in real-world applications such as login systems, membership platforms, and online services. The chosen technology stack includes HTML, CSS, and JavaScript for the frontend interface, while Node.js, Express, and MongoDB are used to handle backend operations and data storage. The report also outlines the modular design of the system, detailing the validation logic, middleware setup, and database schema. Testing results and analysis are included to demonstrate how the system performs under various scenarios. Finally, the report concludes with key takeaways, lessons learned, and potential future enhancements such as integrating email verification, OTP authentication, or password recovery features.

Screenshots / API Documentation:

To support the documentation and demonstration process, several screenshots have been captured to show different aspects of the project. These include images of the user interface with the registration form, examples of valid and invalid data inputs, and alert messages displayed when validation fails. Screenshots also display the successful registration confirmation and the data being recorded in the database. Along with the visual evidence, the API

documentation section provides a structured description of all backend endpoints used in the project. The main API routes include /register for adding a new user and /validateUser for checking the validity of entered details. Each endpoint is documented with its HTTP method, expected parameters, response formats, and example payloads. This section is especially useful for developers and testers who may wish to integrate the registration module into a larger system or extend its functionality.

5. GitHub README & Setup Guide

Explanation: Your README.md file on GitHub should help anyone understand and run your project.

Include:

1.Project Title & Description

2.Features list

3.Tech Stack (Languages, Frameworks, Database)

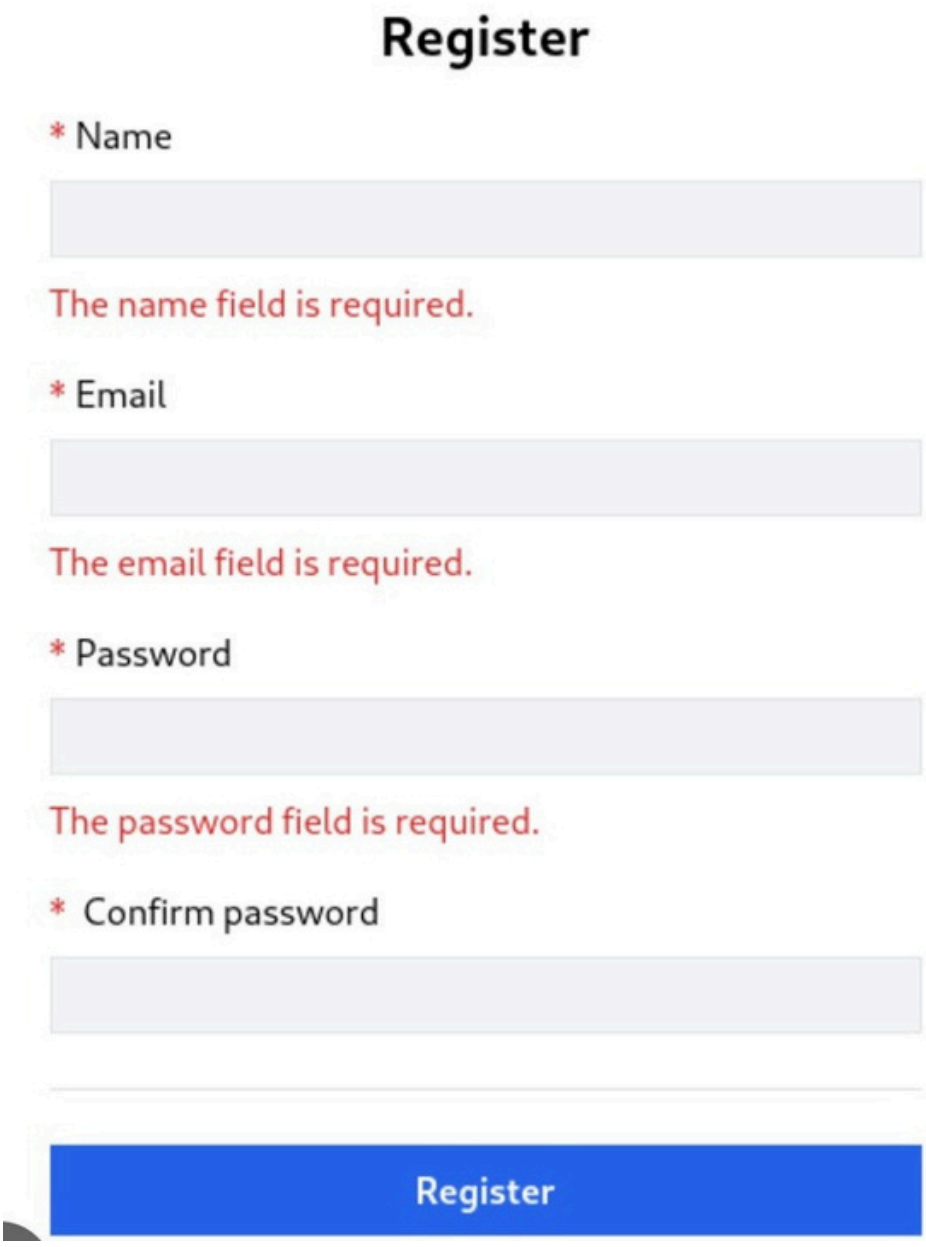
Installation Steps:

git clone https://github.com/yourusername/user-registration-validation.git
cd user-registration-validation
npm install
npm start

:

Screenshot :

:


Register
* Name
The name field is required.
* Email
The email field is required.
* Password
The password field is required.
* Confirm password
Register

6. Final Submission :

Explanation: This is your final handover stage.

GitHub Repository Link:
https://github.com/suvethaug23cs-lab/Project.git

User Registration and Validation System designed to allow users to securely create and manage their accounts. It includes a registration form where users can enter their details such as name, email, and password. The system performs both frontend and backend validation to ensure that the input data is accurate, complete, and follows proper formats (like valid email and strong password). Once validated, user information is securely stored in a database with encrypted passwords. The project also includes a login feature that verifies user credentials, ensuring that only registered users can access protected areas of the application.

: