

## Task 9: Client-Side Form Validation Using JavaScript

### Tools:

- Primary: VS Code, Browser DevTools
- Alternatives: CodePen, JSFiddle

### Hints / Mini Guide:

1. Create a registration form with inputs like name, email, password, confirm password, and submit button.
2. Disable HTML default validation to fully control validation behavior using JavaScript.
3. Write JavaScript functions to validate each input field individually using conditions and regular expressions.
4. Display meaningful error messages below each input field dynamically instead of using alert boxes.
5. Prevent form submission using `event.preventDefault()` until all validations pass.
6. Add real-time validation using keyup or blur events to improve user experience.
7. Style error and success states using CSS classes toggled through JavaScript.
8. Test edge cases like empty inputs, invalid email formats, and weak passwords thoroughly.
9. Refactor repeated validation logic into reusable functions.

### Deliverables:

- Robust client-side validated form
- Clear error handling and user feedback

### Interview Questions Related To Above Task:

- What is client-side vs server-side validation?
- Why use regular expressions?
- What is `preventDefault()`?
- How do you improve UX in forms?
- What are common validation mistakes?

## Task Submission Guidelines

-  **Time Window:**

You can complete the task anytime between 10:00 AM to 10:00 PM on the given day. Submission link closes at 10:00 PM

-  **Self-Research Allowed:**

You are free to explore, Google, or refer to tutorials to understand concepts and complete the task effectively.

-  **Debug Yourself:**

Try to resolve all errors by yourself. This helps you learn problem-solving and ensures you don't face the same issues in future tasks.

-  **No Paid Tools:**

If the task involves any paid software/tools, do not purchase anything. Just learn the process or find free alternatives.

-  **GitHub Submission:**

Create a new GitHub repository for each task.

Add everything you used for the task — code, datasets, screenshots (if any), and a short README.md explaining what you did.

### Submit Here:

After completing the task, paste your GitHub repo link and submit it using the link below:

-  [\[Submission Link\]](#)

