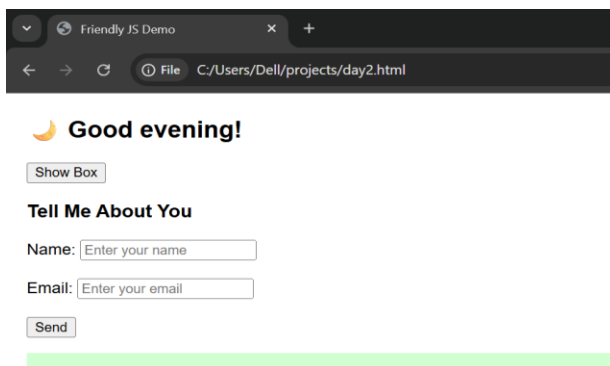
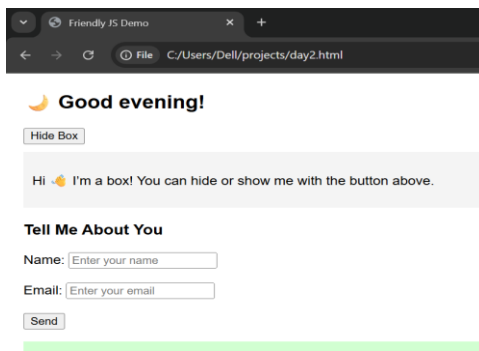


AeroAspire -SDE Intern Training

John Nikhil G

Day 2-Week1

- The toggle section is closed which says (show box) and when it is opened it says(hide box).
- Here the use of a simple toggle button is used in order to create an option of either on/off type condition.



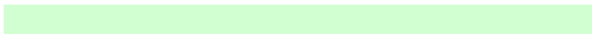
- About the content supposed to fill in, there are two boxes which are name and email.
- The condition is if only either one of them is filled it shows an error that says enter input in the box which has no content.
- There is also a condition present in the content filled in the email box, if (@) is not present in the box it declines the input and returns output as to fill in the individual's email correctly.

Tell Me About You

Name:

Email:

⚠ Hmm... that email doesn't look right.



Tell Me About You

Name:

Email:

Your name is **John** and your email is **john191121@gmail.com**.

QUESTIONS:

Q: Difference between let, const, var?

- let and const are block-scoped, whereas var is function-scoped.
 - With let and const, you must declare before using them, but var can be used even before declaration.
 - Another difference is that let and const don't bind to the this keyword, but var does.
 - Also, var gets hoisted, while let and const don't.
-

Q: What is an event listener?

An event listener is simply a way to tell JavaScript: *"When this event happens, run this function."*

So when an event like a click, hover, or keypress occurs, the listener catches it and triggers the function you wrote.

Q: Walkthrough when you click a button:-

- You click → an event (click) happens.
 - The event listener detects that click.
 - It then calls the function you linked to it.
 - The function runs, and the work gets done.
-

Q: How does JS know which DOM element, which listener, and which callback to use?

JavaScript maintains a list of event listeners tied to each DOM element. When the event fires, it looks up the list and runs the specific function you attached for that event.

Q: What's the difference between event capturing and bubbling?

- **Capturing:** The event moves from the top (document) down to the target element.
- **Bubbling:** The event starts at the target element and then travels upward to its parent elements.

Q: How do you debug JS errors in browser dev tools?

Open **Inspect** → **Console tab** in the browser. You'll see errors, warnings, and logs.

You can also go to the **Sources tab** to set breakpoints, check variable values, and see event listeners in action.

Q: What is `event.preventDefault()` and when do you use it?

`event.preventDefault()` stops the browser's default action.

Example: If you click a link, normally it would take you to another page. If you use `preventDefault()`, you can stop that and maybe run your own code first. Same for forms—it prevents automatic submission so you can validate the data before sending.

Q: How do you validate form fields in JS (required, email format, etc.)?

- Check if the required fields have values.
- For email, ensure it has the proper format (like containing @).
- If a field is empty or invalid, return false or show an error message.

For example, in my code I checked email validity using `email.includes("@")`.

Q: Describe the data flow from user input → validation → UI feedback.

1. User types data into the form.
2. The code checks if the data is valid (required fields filled, email has the right format, etc.).
3. If invalid → show an error message or highlight the field.
4. If valid → continue with normal flow (like showing success message or processing data).

The UI feedback could be a red error message or some CSS changes to catch the user's attention.