
Introduction to CSS

Definition: CSS is a style-sheet language used to describe the presentation of a document written in HTML. If HTML is the "skeleton," CSS is the skin, hair, clothes, and makeup.

- **Working Procedure:** CSS works on a **Rule-Based** system. We select an HTML element and declare how it should look (e.g., "Make all paragraphs blue").

Methods of Integrating CSS

There are three ways to connect our styles to our HTML.

Method	Definition	Best Use Case
Inline CSS	Written directly inside the HTML tag using the <code>style</code> attribute.	Quick, one-time fixes.
Internal CSS	Written inside a <code><style></code> tag in the <code><head></code> section.	Single-page projects.
External CSS	Written in a separate <code>.css</code> file and linked via <code><link></code> .	Professional Standard. Reusable across many pages.

Designing a Login Page using CSS

To design a login page, we move from "default" to "custom."

- **The Box Model:** Every element is a box. We use `padding` (inner space), `margin` (outer space), and `border` to shape them.
- **Alignment:** We use `Flexbox` to center the login card perfectly in the middle of the screen.

Security Aspect (The "Hacked" Effect):

Bad CSS can lead to UI Redressing or Clickjacking. An attacker could use CSS to make a malicious button invisible but placed directly over a "Login" button. The user thinks they are logging in, but they are actually clicking "Authorize Transfer."

Classes and IDs

To apply styles, we must "select" elements.

- **ID (#):** Used for a **unique** element. Like a person's ID card, there should only be one per page.
 - *Example:* `#main-login-button`
- **Class (.):** Used for **multiple** elements. Like a school uniform, many elements can wear the same class.
 - *Example:* `.input-field` (used for both email and password boxes).

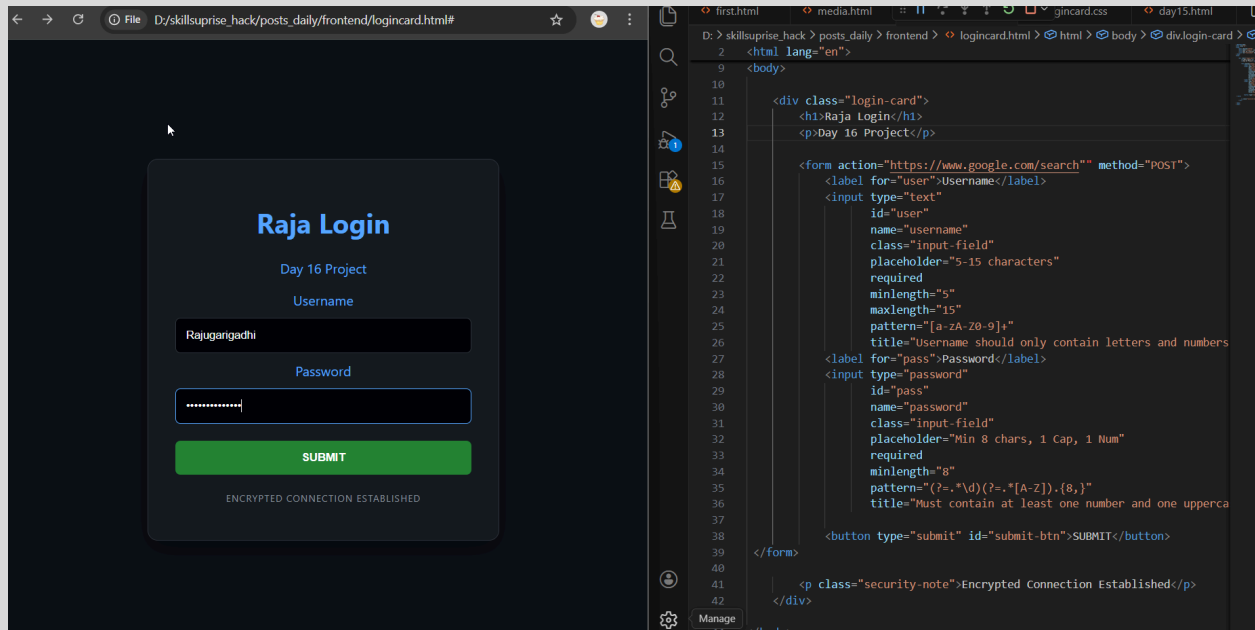
Simplifying Designs using Classes

Instead of writing 10 lines of code for every button, we create a "utility class." This follows the **DRY** principle (**D**on't **R**epeat **Y**ourself).

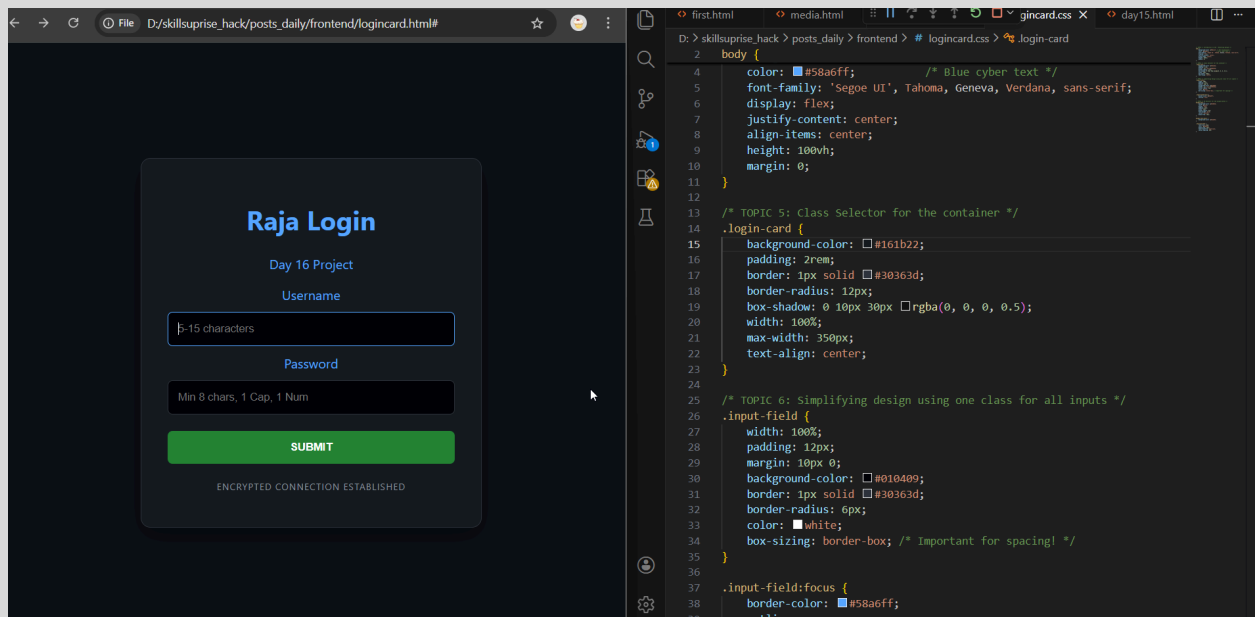
- **Working Procedure:** Create one class called `.btn-blue`. Apply it to every button we want to be blue. If we ever want to change that blue to purple, we only change **one** line of CSS instead of 50 lines of HTML.
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Project: Login Card

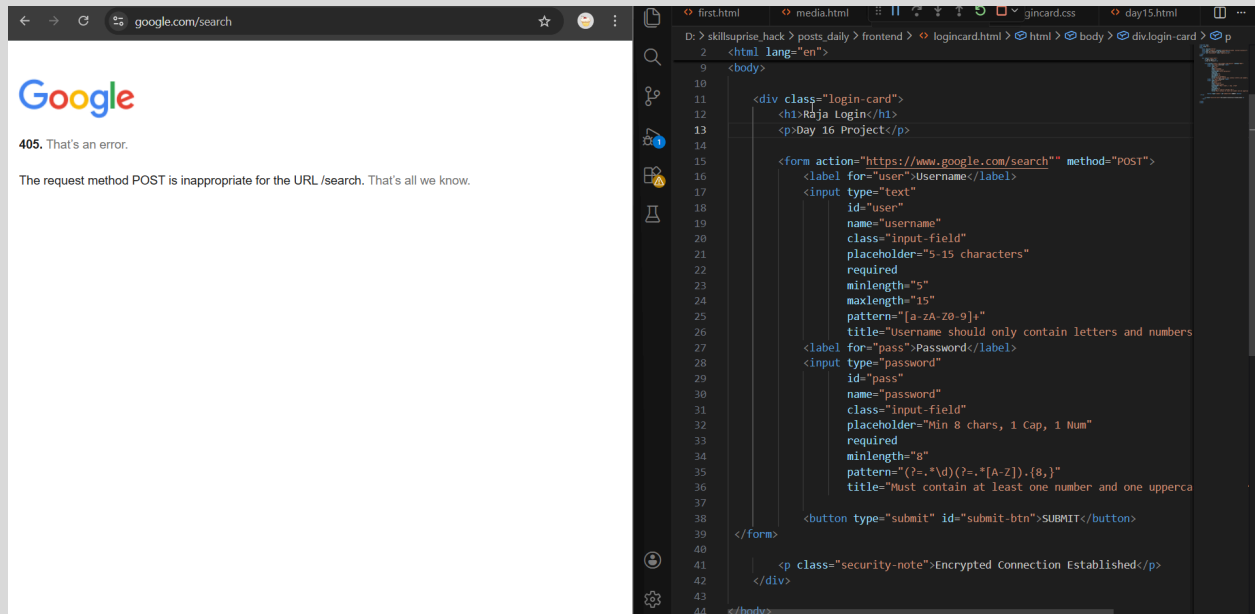
logincard.html (HTML code)



logincard.css (CSS code)



Output: for redirection added for google search page



- **CSS** is the "skin" of the web.
- **External CSS** is the professional choice for clean code.
- **Classes** are for repeating styles; **IDs** are for unique items.
- Ensure CSS code doesn't allow for overlapping elements that could trick users.