A close up of a logo

Description automatically generated

**CSS Styling**

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**LAB MANUAL**

**Creating Interactive Card Components with CSS Effects**

**Objective:**

The objective of this activity is to help learners understand how to enhance web page interactivity and visual appeal by creating card components styled and animated using CSS. Participants will learn to apply CSS properties such as transitions, transforms, shadows, and hover effects to produce engaging, responsive card designs. By the end of the activity, learners will be able to craft visually dynamic card components that respond to user interaction smoothly.

**Equipment Required:**

* A computer with a text editor (e.g., VS Code, Sublime Text, Notepad++)
* A modern web browser (Chrome, Firefox, Edge, etc.) with developer tools

**Prerequisites:**

* Basic understanding of HTML structure and tags
* Familiarity with fundamental CSS concepts such as selectors, properties, and values
* Knowledge of saving .html files and linking CSS to HTML

**Problem Statement:**

In this activity, you are tasked with creating one or more interactive card components that showcase content such as an image, title, description, and a call-to-action button. The cards should incorporate CSS effects like smooth hover transitions, scale transformations, shadows, and color changes to provide an engaging user experience. You will practice writing both the HTML structure for cards and the CSS styling that makes them interactive and visually appealing.

**Procedure:**

1. Create a new file named ***interactive\_cards.html, interactive\_cards.css, and interactive\_cards.js***.
2. Write the basic HTML structure including <head> and <body>.
3. Inside the <body>, create one or more card components using HTML elements such as <div>, <img>, <h3>, <p>, and <button>.
4. Add a <style> block in the <head> or link an external CSS file.
5. Use CSS to style the card components including layout, fonts, colors, and sizing.
6. Add CSS effects such as hover transitions, box shadows, and scaling using :hover and transition properties.
7. Save the file and open it in a browser to test the interactive effects on mouse hover.

**Code**

***interactive\_cards.html***

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Animal Cards</title>

<style>

body {

font-family: Arial, sans-serif;

background: #f8f9fa;

display: flex;

justify-content: center;

padding: 30px;

}

.card-container {

display: flex;

gap: 20px;

}

.card {

background: white;

border-radius: 10px;

box-shadow: 0 4px 8px rgba(0,0,0,0.1);

overflow: hidden;

width: 250px;

text-align: center;

transition: transform 0.2s;

}

.card:hover {

transform: scale(1.05);

}

.card img {

width: 100%;

height: 150px;

object-fit: cover;

}

.card h3 {

margin: 15px 0 10px;

}

.card p {

padding: 0 15px;

font-size: 14px;

color: #555;

}

.card button {

margin: 15px 0 20px;

padding: 10px 20px;

background: #0d6efd;

color: white;

border: none;

border-radius: 20px;

cursor: pointer;

}

.card button:hover {

background: #084298;

}

</style>

</head>

<body>

<div class="card-container">

<!-- Card 1: Dog -->

<div class="card">

<img src="https://images.unsplash.com/photo-1560807707-8cc77767d783" alt="Dog">

<h3>Card Title One</h3>

<p>This is a friendly dog enjoying nature. Dogs are loyal companions loved by many people worldwide.</p>

<button onclick="showMessage('Dog Card')">Learn More</button>

</div>

<!-- Card 2: Elephant -->

<div class="card">

<img src="https://images.unsplash.com/photo-1546182990-dffeafbe841d" alt="Elephant">

<h3>Card Title Two</h3>

<p>This card features a mighty elephant. Elephants are known for their intelligence and long memory.</p>

<button onclick="showMessage('Elephant Card')">Discover</button>

</div>

<!-- Card 3: Lion -->

<div class="card">

<img src="https://images.unsplash.com/photo-1599492180375-5c2d0d6a5f87" alt="Lion">

<h3>Card Title Three</h3>

<p>This card showcases the king of the jungle – the lion. Lions symbolize courage and strength.</p>

<button onclick="showMessage('Lion Card')">Explore</button>

</div>

</div>

<script>

function showMessage(cardName) {

alert("You clicked on " + cardName);

}

</script>

</body>

</html>

**Output**

