

EXPERIMENT 3

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PROBLEM: Task Description:

You are tasked with implementing a card-flip effect using Bootstrap. Your goal is to create a responsive web page that displays a set of cards, each of which can be flipped to reveal additional content on the back side. Your implementation should utilize Bootstrap for layout and styling, ensuring compatibility across various devices and screen sizes.

Requirements:

Front-end Design: Design a web page layout using Bootstrap that includes multiple cards.

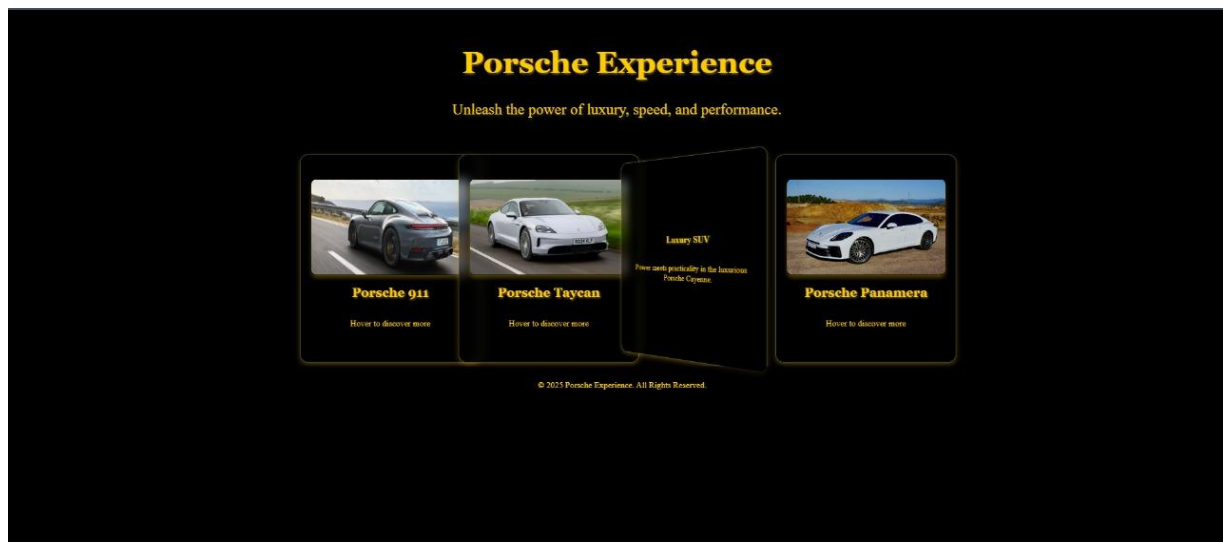
Card Flip Effect: Implement a card-flip effect using Bootstrap's built-in features or custom CSS.

Content Display: Each card should initially display a front side with a brief summary or image. On flipping, the back side should reveal additional content, such as detailed information or related images.

Responsive Design: Ensure that your implementation is responsive, adapting gracefully to different screen sizes and devices.

Optional Enhancements: You may choose to add additional features or styling to enhance the user experience, such as animations or transitions.

OUTPUT:



CODE:

HTML:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Porsche Experience</title>

  <link rel="stylesheet" href="style.css">

</head>

<body>

  <!-- Video Background -->

  <div class="video-background">

    <video autoplay muted loop>

      <source src="porsche-bg.mp4" type="video/mp4">

    </video>

  </div>

  <!-- Header -->

  <header>

    <h1>Porsche Experience</h1>

    <p>Unleash the power of luxury, speed, and performance.</p>

  </header>
```

<!-- Car Showcase Section -->

<section class="car-showcase">

<div class="car-item">

<div class="card-flip">

<div class="card-flip-inner">

<div class="card-front">

<h2>Porsche 911</h2>

<p>Hover to discover more</p>

</div>

<div class="card-back">

<h3>Timeless Icon</h3>

<p>The Porsche 911 combines heritage with cutting-edge performance.</p>

</div>

</div>

</div>

</div>

<div class="car-item">

<div class="card-flip">

<div class="card-flip-inner">

<div class="card-front">

<h2>Porsche Taycan</h2>

<p>Hover to discover more</p>

</div>

<div class="card-back">

<h3>Electric Revolution</h3>

<p>Experience unmatched electric power with the Porsche Taycan.</p>

</div>

</div>

</div>

</div>

<div class="car-item">

<div class="card-flip">

<div class="card-flip-inner">

```
<div class="card-front">

  <h2>Porsche Cayenne</h2>

  <p>Hover to discover more</p>

</div>

<div class="card-back">

  <h3>Luxury SUV</h3>

  <p>Power meets practicality in the luxurious Porsche Cayenne.</p>

</div>

</div>

</div>

</div>
```

```
<div class="car-item">

  <div class="card-flip">

    <div class="card-flip-inner">

      <div class="card-front">

        <h2>Porsche Panamera</h2>

        <p>Hover to discover more</p>

      </div>

      <div class="card-back">

        <h3>Executive Power</h3>

        <p>The perfect blend of sports car performance and luxury sedan comfort.</p>

      </div>

    </div>

  </div>

</div>

</div>

</section>
```

```
<!-- Footer -->

<footer>

  <p>&copy; 2025 Porsche Experience. All Rights Reserved.</p>

</footer>
```

```
</body>

</html>
```

CSS:

```
/* Video Background */
.video-background {
  position: fixed;
  top: 0;
  left: 0;
  width: 100%;
  height: 100%;
  z-index: -1;
  overflow: hidden;
}

.video-background video {
  width: 100%;
  height: 100%;
  object-fit: cover;
  background: black;
}

/* Header */
header {
  background: rgba(0, 0, 0, 0.7);
  color: #ffcc00;
  padding: 20px;
  text-align: center;
  font-size: 1.8rem;
  text-shadow: 3px 3px 6px rgba(255, 255, 255, 0.2);
}

/* Car Showcase */
.car-showcase {
  display: flex;
  flex-wrap: wrap;
  justify-content: center;
  margin: 20px;
}

/* Card Flip Effect */
.card-flip {
  perspective: 1000px;
  margin-bottom: 30px;
  width: 300px;
}

.card-flip-inner {
  position: relative;
  width: 100%;
  height: 350px;
  text-align: center;
  transition: transform 0.8s;
  transform-style: preserve-3d;
  cursor: pointer;
}

.card-flip:hover .card-flip-inner {
  transform: rotateY(180deg);
}

.card-front, .card-back {
  position: absolute;
```

```

width: 100%;
height: 100%;
backface-visibility: hidden;
border-radius: 15px;
padding: 20px;
background: rgba(0, 0, 0, 0.4);
backdrop-filter: blur(10px);
border: 1px solid rgba(255, 255, 255, 0.3);
color: #ffcc00;
box-shadow: 0 4px 10px rgba(255, 204, 0, 0.3);
}

.card-front {
display: flex;
flex-direction: column;
align-items: center;
justify-content: center;
}

.card-front img {
width: 100%;
height: 180px;
border-radius: 10px;
box-shadow: 0 4px 8px rgba(255, 204, 0, 0.3);
transition: transform 0.3s ease-in-out;
}

.card-front img:hover {
transform: scale(1.1);
}

.card-back {
transform: rotateY(180deg);
display: flex;
flex-direction: column;
justify-content: center;
align-items: center;
}

/* Typography */
h1, h2 {
font-family: 'Georgia', serif;
text-shadow: 2px 2px 4px rgba(255, 204, 0, 0.5);
}

h3 {
color: #ffcc00;
text-shadow: 2px 2px 4px rgba(255, 255, 255, 0.3);
}

/* Footer */
footer {
background-color: rgba(0, 0, 0, 0.7);
color: #ffcc00;
padding: 10px;
position: relative;
bottom: 0;
width: 100%;
text-align: center;
font-size: 1rem;
}

```

TAGS & SELECTORS:

HTML Tags List:

1. <!DOCTYPE html> - Declares the document type.
2. <html> - Root element of the HTML document.
3. <head> - Contains meta-information and links to stylesheets.
4. <meta> - Provides metadata (charset, viewport settings).
5. <title> - Sets the title of the webpage.
6. <link> - Links external stylesheets.
7. <body> - Defines the main content of the document.
8. <div> - A generic container element.
9. <h2> - Defines a heading (level 2).
10. <form> - Creates an input form.
11. <label> - Labels input fields.
12. <input> - Creates an input field.
 - type="text" (Text input) ○ type="email" (Email input)
 - type="password" (Password input) ○
 - type="date" (Date input) ○ type="radio"
 - (Radio buttons) ○ type="file" (File upload) ○
 - type="submit" (Submit button)
13. <select> - Creates a dropdown list.
14. <option> - Defines options inside a <select> element.
15. <button> - Defines a clickable button.