Experiment - 3
Implementing a card-flip effect using Bootstrap.

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OBJECTIVE -
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.

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CODE -

```html
<!-- Done by Najeeb Fariduddin Saiyed -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Card Flip Effect</title>
    <!-- Bootstrap CSS: Companies expect to link Bootstrap CSS for styling -->
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2HN" crossorigin="anonymous">
    <style>
    /* Custom CSS styles */
    h1 {
        color: #89600e; /* Set color for h1 elements */
    }
    h3 {
        color: #7a560d; /* Set color for h3 elements */
    }
    h5, p {
        color: #614204; /* Set color for h5 and p elements */
    }
```

```css
    body {
        width: 90%;
        margin: 0 auto; /* Center the page horizontally */
        background-color:#d2ba8a; /* Set background color */
        font-size: 14px; /* Set base font size */
    }
    .card-container {
        display: flex;
        justify-content: space-around; /* Space evenly around cards */
        margin-top: 30px; /* Set top margin for card container */
    }
    .card {
        width: 300px; /* Set width of each card */
        height: 400px; /* Set height of each card */
        perspective: 1000px; /* Set perspective for 3D effect */
        margin: 0px; /* Remove margin */
        cursor: pointer; /* Set cursor to pointer */
        border: none; /* Remove border */
        background-color:#d2ba8a; /* Set background color for cards */
    }
    .card-inner {
        width: 100%;
        height: 100%;
        transition: transform 0.7s; /* Add transition for smooth flip effect */
        transform-style: preserve-3d; /* Preserve 3D transformations */
    }
    .card:hover .card-inner {
        transform: rotateY(-180deg); /* Rotate card on hover */
    }
    .card-front, .card-back {
        width: 100%;
        height: 100%;
        position: absolute;
        backface-visibility: hidden; /* Hide back face of the card */
    }
    .card-back {
        transform: rotateY(180deg); /* Initially hide back of card */
    }
    .card-body {
        padding: 20px; /* Add padding inside card body */
    }
  </style>
</head>
<body>
  <div class="container">
    <h1 class="text-center mt-5">Welcome to the Card Flip Effect Showcase!</h1>
```

```html
<div class="text-center mb-4">
  <h3>Hover over the card to reveal its magic!</h3>
  <p>Created with 💜 by Najeeb Saiyed</p>
</div>
<div class="card-container">
  <div class="card">
    <div class="card-inner">
      <div class="card-front">
        <img src="card-back.png" class="card-img-top" alt="Front Image">
        <div class="card-body">
          <h5 class="card-title">Yu-Gi-Oh! - A Trading Card Game</h5>
          <p>Guess which card could it be? Hover over the card to find out!</p>
        </div>
      </div>
      <div class="card-back">
        <img src="card-front.png" class="card-img-top" alt="Back Image">
        <div class="card-body">
          <h5 class="card-title">Dark Magician</h5>
          <p>The card flipped is the legendary Dark Magician!</p>
          <p>This ancient wizard is a favorite among duelists for its incredible powers and elegant design.</p>
        </div>
      </div>
    </div>
  </div>
  <!-- Duplicate the card structure twice -->
  <div class="card">
    <div class="card-inner">
      <div class="card-front">
        <img src="card-back.png" class="card-img-top" alt="Front Image">
        <div class="card-body">
          <h5 class="card-title">Yu-Gi-Oh! - A Trading Card Game</h5>
          <p>Guess which card could it be? Hover over the card to find out!</p>
        </div>
      </div>
      <div class="card-back">
        <img src="blueeyes.jpeg" class="card-img-top" alt="Back Image">
        <div class="card-body">
          <h5 class="card-title">Blue Eyes White Dragon</h5>
          <p>The card flipped is the Blue Eyes White Dragon!</p>
          <p>The legendary powerful blue eyes white dragon wielded by Seto Kaiba.</p>
        </div>
      </div>
    </div>
  </div>
```

```html
<div class="card">
  <div class="card-inner">
    <div class="card-front">
      <img src="card-back.png" class="card-img-top" alt="Front Image">
      <div class="card-body">
        <h5 class="card-title">Yu-Gi-Oh! - A Trading Card Game</h5>
        <p>Guess which card could it be? Hover over the card to find out!</p>
      </div>
    </div>
    <div class="card-back">
      <img src="raigeki.jpeg" class="card-img-top" alt="Back Image">
      <div class="card-body">
        <h5 class="card-title">Reigeki</h5>
        <p>The card flipped is Reigeki!</p>
        <p>The strongest popular Magic card.</p>
      </div>
    </div>
  </div>
</div>
</div>
<!-- Bootstrap JS: Companies expect to link Bootstrap JS for functionality -->
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-C6RzsynM9kWDrMNeT87bh95OGNyZPhcTNXj1NW7RuBCsyN/o0jlpcV
8Qyq46cDfL" crossorigin="anonymous"></script>
</body>
</html>
```
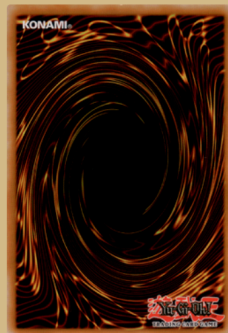
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OUTPUT -

Welcome to the Card Flip Effect Showcase!

Hover over the card to reveal its magic!

Created with 💜 by Najeeb Saiyed
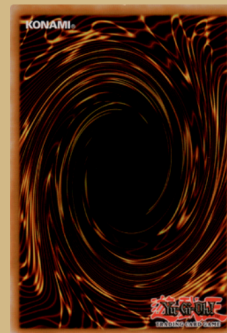
Yu-Gi-Oh! - A Trading Card Game

Guess which card could it be? Hover over the card to find out!

Blue Eyes White Dragon

The card flipped is the Blue Eyes White Dragon!

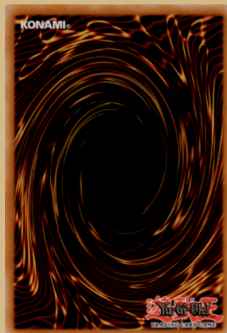The legendary powerful blue eyes white dragon weilded by Seto Kaiba.

Yu-Gi-Oh! - A Trading Card Game

Guess which card could it be? Hover over the card to find out!
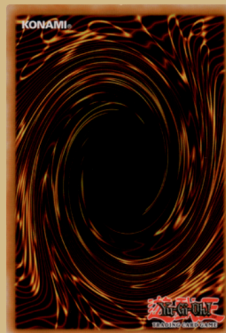
Welcome to the Card Flip Effect Showcase!

Hover over the card to reveal its magic!

Created with 💜 by Najeeb Saiyed

Yu-Gi-Oh! - A Trading Card Game

Guess which card could it be? Hover over the card to find out!

Yu-Gi-Oh! - A Trading Card Game

Guess which card could it be? Hover over the card to find out!

Reigeki
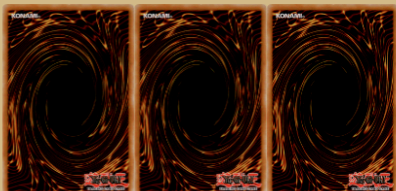
The card flipped is Reigeki!

The strongest popular Magic card.

WEBSITE RUNNING ON MOBILE

Welcome to the Card Flip Effect Showcase!

Hover over the card to reveal its magic!

Created with 💜 by Najeeb Saiyed

Yu-Gi-Oh! - A Trading Card Game

Guess which card could it be? Hover over the card to find out!

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Dark Magician

The card flipped is the legendary Dark Magician!

This ancient wizard is a favorite among duelists for its incredible powers and elegant design.

Yu-Gi-Oh! - A Trading Card Game

Guess which card could it be? Hover over the card to find out!

Yu-Gi-Oh! - A Trading Card Game

Guess which card could it be? Hover over the card to find out!

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Hover over the card to reveal its magic!

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Yu-Gi-Oh! - A Trading Card Game

Guess which card could it be? Hover over the card to find out!

Blue Eyes White Dragon

The card flipped is the Blue Eyes White Dragon!

The legendary powerful blue eyes white dragon wielded by Seto Kaiba.

Yu-Gi-Oh! - A Trading Card Game

Guess which card could it be? Hover over the card to find out!

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Yu-Gi-Oh! - A Trading Card Game

Guess which card could it be? Hover over the card to find out!

Yu-Gi-Oh! - A Trading Card Game

Guess which card could it be? Hover over the card to find out!

Reigeki

The card flipped is Reigeki!

The strongest popular Magic card.

Tags Used -
let's delve deeper into the specific CSS tags and components used in my code:

Global Styles:

<body> tag: Sets overall appearance for the entire page using:
width: 90%: Creates a centered content area with margins on both sides.
margin: 0 auto: Horizontally centers the content within the viewport.
background-color: Defines the page background color.
font-size: Sets the default font size for all text elements.

Bootstrap Integration:

<link> tag: Imports the Bootstrap CSS framework, providing pre-defined styles.
<div> with container class: Creates a responsive container element (inherited from Bootstrap).

Card Container:

.card-container class: Styles the container holding all the cards:
display: flex: Arranges cards in a row using Bootstrap's flexbox functionality.
justify-content: space-around: Distributes cards evenly with space between them.

Individual Cards:

.card class: Defines the overall structure and appearance of each card:
width and height: Set the dimensions of each card.
perspective: Creates a 3D perspective for the flip animation.
margin: Adds slight margins around each card.
cursor: pointer: Changes cursor to a hand on hover, indicating interactivity.

Flip Animation:

.card-inner class: Responsible for the flip animation:
width and height: Ensures it fills the entire card area.
transition: Defines the smooth flipping animation on hover.
transform-style: Preserves the 3D context during the animation.
transform: rotateY(-180deg); (applied on hover): Rotates the back side 180 degrees to create the flip effect.

Card Sides:

.card-front and .card-back classes: Represent the front and back sides of each card:
position: absolute: Positions them within the card container.

backface-visibility: hidden: Hides the back side when it's not facing forward.

Card Content:

.card-body class: Styles the area holding text and image within each card:
padding: Adds space around the content for better readability.

Headings and Paragraphs:

h1, h3, h5, p tags: Used for titles, subtitles, and descriptions:
Specific color styles are applied using CSS selectors for each heading level.

Images:

<img> tags: Display the card images on both sides:
src attribute specifies the image source.
alt attribute provides alternative text for accessibility.

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By Najeeb Fariduddin Saiyed - 21070126057

THANK YOU FOR READING
HAVE A GREAT DAY!