PRN: 21070126039   Name: Jainil Patel   Batch: AI/ML A2
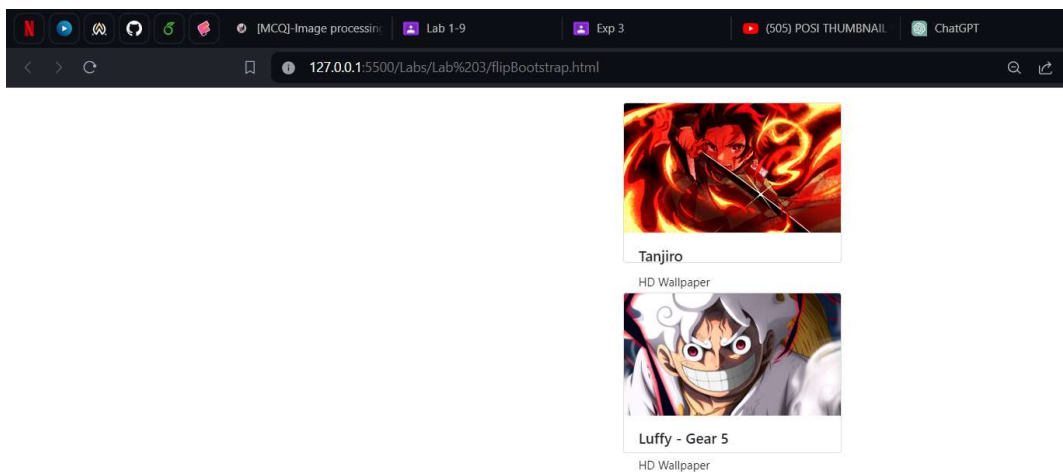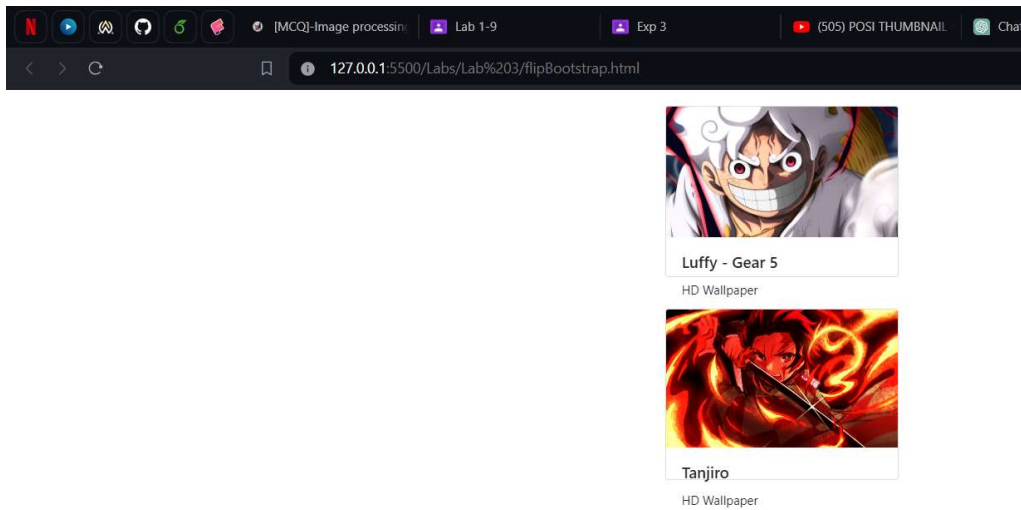
Full Stack Developments - LAB 3

Flip Card (Bootstrap)

Problem:

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:

HTML Tags used:

1. **<html>: Defines the root element of an HTML document.**

```html
<html>
    <!-- HTML content goes here -->
</html>
```

2. **<head>: Contains meta-information about the HTML document, such as title, links to stylesheets, and scripts.**

```
<head>
    <title>My Page Title</title>
    <!-- Other meta-information goes here -->
</head>
```

3. **<title>: Sets the title of the HTML document displayed in the browser's title bar or tab.**

```
<title>My Page Title</title>
```

4. **<style>: Defines CSS styles that apply to elements within the document.**

```
<style>
    body {
        font-family: Arial, sans-serif;
    }
</style>
```

5. **<body>: Contains the content of the HTML document that is displayed in the browser window.**

```
<body>
    <h1>Hello, World!</h1>
    <p>This is a paragraph.</p>
</body>
```

Code:

```
<html>
    <head>
        <title></title>

        <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">

        <style>
            .card-container {
                display: flex;
                flex-wrap: wrap;
                justify-content: center;
            }

            .card {
                width: 300px;
                height: 220px;
                perspective: 1000px;
                margin: 20px;
            }

            .card-inner {
```

```css
            width: 100%;
            height:  100%;
            transition: transform 0.6s;
            transform-style: preserve-3d;
        }

        .card-front , .card-back {
            width: 100%;
            height:  100%;
            position: absolute;
            backface-visibility: hidden;
        }

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

        .card-back {
            transform: rotateY(180deg);
        }

    </style>
</head>
<body>


    <div class="container">
        <div class="card-container">


            <div class="card">
                <div class="card-inner">
                    <div class="card-front">
                        <img src="luffy.png" class="card-img-top" alt="Front Img">
                        <div class="card-body">
                            <h5 class="card-title">Luffy - Gear 5</h5>
                            <p class="card-text">HD Wallpaper</p>
                        </div>

                    </div>

                    <div class="card-back">
                        <img src="tanjiro.jpg" class="card-img-top" alt="Front Img">
                        <div class="card-body">
                            <h5 class="card-title">Tanjiro </h5>
                            <p class="card-text">HD Wallpaper</p>
                        </div>

                    </div>

                </div>
```

```html
                </div>

            </div>

        </div>


    <div class="container">
        <div class="card-container">


            <div class="card">
                <div class="card-inner">
                    <div class="card-front">
                        <img src="luffy.png" class="card-img-top" alt="Front Img">
                        <div class="card-body">
                            <h5 class="card-title">Luffy - Gear 5</h5>
                            <p class="card-text">HD Wallpaper</p>
                        </div>

                    </div>

                    <div class="card-back">
                        <img src="tanjiro.jpg" class="card-img-top" alt="Front Img">
                        <div class="card-body">
                            <h5 class="card-title">Tanjiro </h5>
                            <p class="card-text">HD Wallpaper</p>
                        </div>

                    </div>

                </div>

            </div>

        </div>

    </div>

    <div class="container">
        <div class="card-container">


            <div class="card">
                <div class="card-inner">
                    <div class="card-front">
                        <img src="luffy.png" class="card-img-top" alt="Front Img">
                        <div class="card-body">
                            <h5 class="card-title">Luffy - Gear 5</h5>
                            <p class="card-text">HD Wallpaper</p>
```

```html
                        </div>

                    </div>

                    <div class="card-back">
                        <img src="tanjiro.jpg" class="card-img-top" alt="Front Img">
                        <div class="card-body">
                            <h5 class="card-title">Tanjiro </h5>
                            <p class="card-text">HD Wallpaper</p>
                        </div>

                    </div>

                </div>

            </div>

        </div>

    </div>

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                    <div class="card-front">
                        <img src="luffy.png" class="card-img-top" alt="Front Img">
                        <div class="card-body">
                            <h5 class="card-title">Luffy - Gear 5</h5>
                            <p class="card-text">HD Wallpaper</p>
                        </div>

                    </div>

                    <div class="card-back">
                        <img src="tanjiro.jpg" class="card-img-top" alt="Front Img">
                        <div class="card-body">
                            <h5 class="card-title">Tanjiro </h5>
                            <p class="card-text">HD Wallpaper</p>
                        </div>

                    </div>

                </div>

            </div>

        </div>
```

```
        </div>




    </body>
</html>
```

CSS Code:

```html
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">

    <style>
        .card-container {
            display: flex;
            flex-wrap: wrap;
            justify-content: center;
        }

        .card {
            width: 600px;
            height: 440px;
            perspective: 1000px;
            margin: 20px;
        }

        .card-inner {
            width: 100%;
            height:  100%;
            transition: transform 0.6s;
            transform-style: preserve-3d;
        }

        .card-front , .card-back {
            width: 100%;
            height:  100%;
            position: absolute;
            backface-visibility: hidden;
        }

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

        .card-back {
```

```
        transform: rotateY(180deg);
    }
```