

MIT Art Design and Technology University
MIT School of Computing, Pune
Department of Computer Science and Engineering
Third Year B. Tech Academic Year 2022-2023. (SEM-I)
Subject: Web Technology Laboratory

Assignment 11

Assignment Title: Write a JQuery code to add dynamic element on page on click of button

Aim: Create dynamic element like creating a div element in a web page on click of a button using jQuery

Objectives:

1. To understand how jQuery can be used to beautify to manipulate DOM
2. Understand the syntax of jQuery

Outcomes:

Upon Completion of the assignment the students will be able to

1. Create animated web pages using various DOM manipulation by jQuery
2. Understand relationship between HTML and jQuery

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jQuery:

```
<head>

    <meta charset="UTF-8">

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

    <title>jQuery Dynamic Element</title>

    <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.
6.4/jquery.min.js"></script>

    <script>

        $(document).ready(function() {

            $("button").click(function () {

                $("body").append("<p> You
```

```
dynamically created this by clicking the button
</p>");
```

```
});
```

```
});
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h1>jQuery dynamically create < p > Element
</h1>
```

```
<button>
```

```
Click here!!!
```

```
</button>
```

```
</body>
```

```
</html>
```

Output :

Before clicking

jQuery dynamically create < p > Element

Click here!!!

After clicking

jQuery dynamically create < p > Element

Click here!!!

You dynamically created this by clicking the button

You dynamically created this by clicking the button

You dynamically created this by clicking the button

You dynamically created this by clicking the button

Explanation :

- a. **HTML Structure:** The code is written in HTML and has a basic structure that includes the `<head>` and `<body>` tags. The `<head>` tag contains meta information about the webpage and the `<body>` tag contains the content of the webpage.
- b. **jQuery Usage:** The code uses jQuery, a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, and animation much simpler with an easy-to-use API that works across a multitude of browsers.
- c. **Dynamic Content Creation:** The script within the `<head>` tag uses jQuery to dynamically create a paragraph element (`<p>`) in the body of the HTML document when the button is clicked. This is done using the `append()` method which inserts specified content at the end of the selected elements.
- d. **Event Handling:** The script also demonstrates how to use jQuery to handle events - in this case, a click event on the button element (`<button>`). This is done using the `click()` method which attaches an event handler function to the click event.
- e. **Document Ready Event:** The `$(document).ready()` function is used to make a function available after the document is loaded. Whatever code you write inside this block will run once the page DOM is ready to execute JavaScript code.

This code provides a good introduction to how jQuery can be used for dynamic content creation and event handling in web development.