

## **LAB 7**

### **OBJECTIVE**

To introduce with jQuery

### **DESCRIPTION**

jQuery is a JavaScript library designed to simplify HTML DOM tree traversal and manipulation, as well as event handling, CSS animation, and Ajax. It is free, open-source software using the permissive MIT License. As of May 2019, jQuery is used by 73% of the 10 million most popular websites. Web analysis indicates that it is the most widely deployed JavaScript library by a large margin, having 3 to 4 times more usage than any other JavaScript library.

jQuery's syntax is designed to make it easier to navigate a document, select DOM elements, create animations, handle events, and develop Ajax applications. jQuery also provides capabilities for developers to create plug-ins on top of the JavaScript library. This enables developers to create abstractions for low-level interaction and animation, advanced effects and high-level, themeable widgets. The modular approach to the jQuery library allows the creation of powerful dynamic web pages and Web applications.

## HTML

```
<!DOCTYPE html>
<html>
<head>
  <title>jQuery Tutorial</title>
  <script src ="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js">
  </script>
  <!-- <script type="text/javascript" src="js/jquery.min.js">
  </script> -->
  <script type="text/javascript" src="js/script.js"></script>
</head>
<body>
  <h2 id="title">jQuery Title</h2>
  <div class="content">jQuery Content</div>
  <button>Click Here</button>
</body>
</html>
```

## JavaScript

```
var interval = 0;

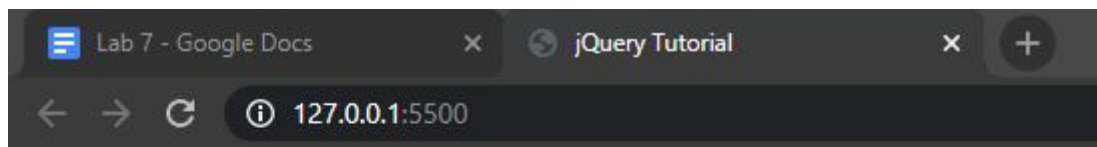
$(document).ready(function()
{
  $('button').click(function()
  {
    // $('#title').css({'color':'red','opacity':'0.5'});

    $('.content').html('This is my content');
    $('#title').css('opacity','1');

    var interval= setInterval(function(){
      var oldOpacity = $('#title').css('opacity');
      if (oldOpacity==0)
      {
        clearInterval(interval);
      }
      else
```

```
        {
            $('#title').css('opacity',oldOpacity - 0.1);
        }
    },100);
})
})
```

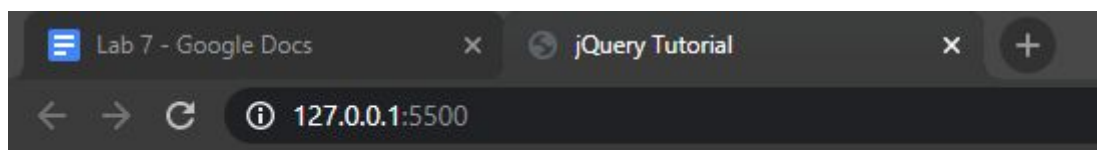
## OUTPUT



jQuery Title

jQuery Content

Click Here



This is my content

Click Here

## SUMMARY

In this lab, we got familiar with the JavaScript library; jQuery and its syntax. We wrote a simple program to manipulate the content of the page using jQuery. jQuery syntax was a bit complex at first to learn but it was fun learning.

## COMMENT