

# **LAPORAN DESAIN WEB**

## **MODUL 7 – JQUERY**

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## DESAIN WEB | MODUL 7 – JQUERY

### I. Tujuan Praktikum

1. Mahasiswa mampu menggunakan JQuery sebagai framework javascript untuk desain web
2. Mahasiswa mengerti cara kerja JQuery
3. Mahasiswa mampu mengembangkan teknik pengolahan konten web dengan JQuery dan JQueryUI

### II. Ringkasan Materi

JQuery adalah **library JavaScript** yang mempermudah pengembangan halaman web terutama dalam manipulasi tampilan, event handling, animasi, dan penerapan AJAX. Dengan jQuery, perintah JavaScript dapat ditulis lebih **sederhana**, sesuai motonya yaitu *"Write less, do more"*.

Manfaat penggunaan jQuery:

- Mempermudah mengakses dan memanipulasi elemen HTML.
- Mempermudah mengubah tampilan halaman menggunakan CSS.
- Mempermudah perubahan isi halaman seperti teks, gambar, dan tabel.
- Mempermudah penanganan event seperti klik, input, dan hover.
- Dapat menambahkan animasi sederhana pada elemen.
- Mendukung penggunaan AJAX untuk pertukaran data tanpa reload halaman.

Contoh Sintaks Dasar jQuery:

Semua pemanggilan fungsi jQuery diawali dengan simbol \$, dan dijalankan di dalam fungsi `$(document).ready()`

### III. Alat dan Bahan

1. Laptop/Komputer
2. Visual Studio Code

### IV. Langkah Kerja

- a. Latihan 1

```

1 <!DOCTYPE html>
2 <html lang="id">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Highlight Paragraf (jQuery)</title>
7
8   <style>
9     body {
10       font-family: "Times New Roman", Times, serif;
11       margin: 40px;
12       font-size: 18px;
13       line-height: 1.6;
14     }
15
16     .highlight {
17       background-color: yellow;
18       color: red;
19       font-weight: bold;
20     }
21
22     button {
23       margin-top: 15px;
24       padding: 8px 15px;
25       cursor: pointer;
26     }
27   </style>
28
29   <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
30 </head>
31 <body>

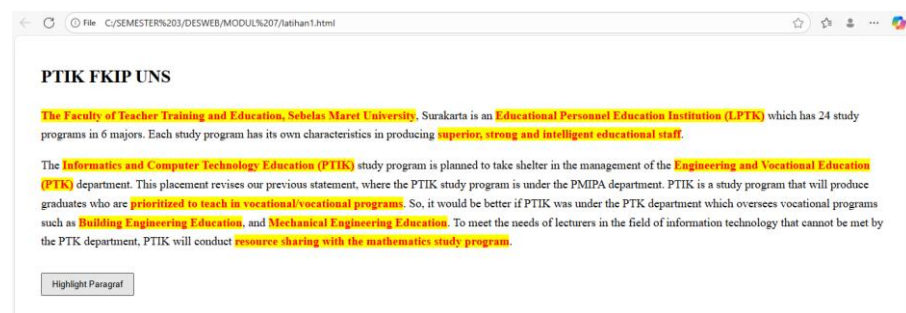
```

```

32 <h2>PTIK FKIP UNS</h2>
33
34 <p>
35   <span class="target">The Faculty of Teacher Training and Education, Sebelas Maret University</span>, Surakarta is an
36   <span class="target">Educational Personnel Education Institution (LPTK)</span> which has 24 study programs in 6 majors.
37   Each study program has its own characteristics in producing <span class="target">superior, strong and intelligent educational staff</span>.
38 </p>
39
40 <p>
41   The <span class="target">Informatics and Computer Technology Education (PTIK)</span> study program is planned to take
42   shelter in the management of the <span class="target">Engineering and Vocational Education (PTK)</span> department.
43   This placement revises our previous statement, where the PTIK study program is under the PMIPA department.
44   PTIK is a study program that will produce graduates who are <span class="target">prioritized to teach in vocational/vocational programs</span>.
45   So, it would be better if PTIK was under the PTK department which oversees vocational programs such as
46   <span class="target">Building Engineering Education</span>, and <span class="target">Mechanical Engineering Education</span>.
47   To meet the needs of lecturers in the field of information technology that cannot be met by the PTK department,
48   PTIK will conduct <span class="target">resource sharing with the mathematics study program</span>.
49 </p>
50
51 <button id="btnHighlight">Highlight Paragraf</button>
52
53 <script>
54   $(document).ready(function() {
55     $("#btnHighlight").click(function() {
56       $(".target").toggleClass("highlight");
57     });
58   });
59 </script>
60 </body>
61 </html>

```

Hasil :



b. Latihan 2

```

1  <!DOCTYPE html>
2  <html>
3  <head>
4      <meta charset="utf-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1">
6      <title>Jam Digital jQuery</title>
7      <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
8      <style>
9          body {
10             font-family: 'Poppins', sans-serif;
11          }
12          #jam {
13             font-size: 28px;
14             font-weight: bold;
15          }
16          center {
17             margin-top: 80px;
18             padding: 20px;
19             box-shadow: 0 0 8px rgba(0,0,0,0.2);
20             display: inline-block;
21          }
22      </style>
23 </head>
24 <body>
25     <center>
26         <h1 id="jam">Placeholder Jam</h1>
27         <br>
28         <button id="start">START/STOP</button>
29     </center>

```

```

31 <script>
32     let interval;
33     let running = false;
34
35     function updateClock() {
36         const hari = ["Minggu", "Senin", "Selasa", "Rabu", "Kamis", "Jumat", "Sabtu"];
37         const bulan = [
38             "Januari", "Februari", "Maret", "April", "Mei", "Juni",
39             "Juli", "Agustus", "September", "Oktober", "November", "Desember"
40         ];
41
42         const now = new Date();
43         const dayName = hari[now.getDay()];
44         const date = now.getDate();
45         const month = bulan[now.getMonth()];
46         const year = now.getFullYear();
47
48         let hours = now.getHours();
49         let minutes = now.getMinutes();
50         let seconds = now.getSeconds();
51
52         if (hours < 10) hours = "0" + hours;
53         if (minutes < 10) minutes = "0" + minutes;
54         if (seconds < 10) seconds = "0" + seconds;
55
56         const timeString = `${dayName}, ${date} ${month} ${year}<br>${hours}:${minutes}:${seconds}`;
57         $("#jam").html(timeString);
58     }

```

```

60     $("#start").click(function() {
61         if (!running) {
62             updateClock();
63             interval = setInterval(updateClock, 1000);
64             running = true;
65         } else {
66             clearInterval(interval);
67             running = false;
68         }
69     });
70 </script>
71 </body>
72 </html>

```

Hasil :



## V. Simpulan

Dari praktikum yang telah dilakukan, dapat disimpulkan bahwa jQuery merupakan library JavaScript yang sangat membantu dalam pembuatan halaman web yang interaktif. Dengan jQuery, proses manipulasi elemen HTML, pengaturan style, pemrosesan event, dan pembuatan efek visual dapat dilakukan dengan lebih **mudah, ringkas, dan efisien** dibandingkan menggunakan JavaScript murni. Selain itu, jQuery mendukung kompatibilitas lintas browser, sehingga sangat sesuai digunakan pada pengembangan web modern.