



Native

PHP: Hypertext Preprocessor

Bootstrap + PHP Native

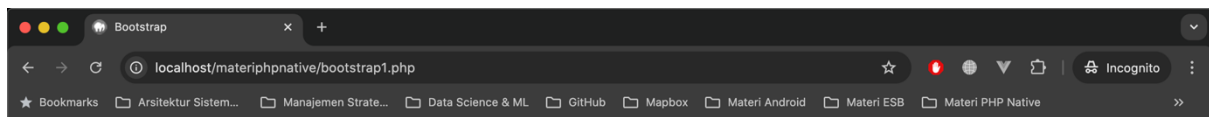
Materi berikut ini kita akan membahas penggunaan Bootstrap sebagai *framework* antarmuka web dan mengkombinasikan dengan bahasa pemrograman PHP.

Bootstrap Online

Kita dapat menggunakan Bootstrap dengan langsung menuliskan alamat URL CSS-nya pada head html seperti berikut.

```
bootstrap1.php X
bootstrap1.php
1 <!doctype html>
2 <html lang="en">
3   <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1">
6     <title>Bootstrap</title>
7     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet" crossorigin="anonymous">
8   </head>
9   <body>
10    <h1>Hello, world!</h1>
11    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js" crossorigin="anonymous"></script>
12  </body>
13 </html>
```

Hasilnya sebagai berikut.



Hello, world!

Bootstrap Offline

Namun untuk menggunakan cara di atas, komputer/laptop harus terhubung ke internet. Agar dapat menggunakan Bootstrap tanpa internet, kita harus download Bootstrap ke dalam folder project. Dan ganti link URL CSS-nya seperti berikut.

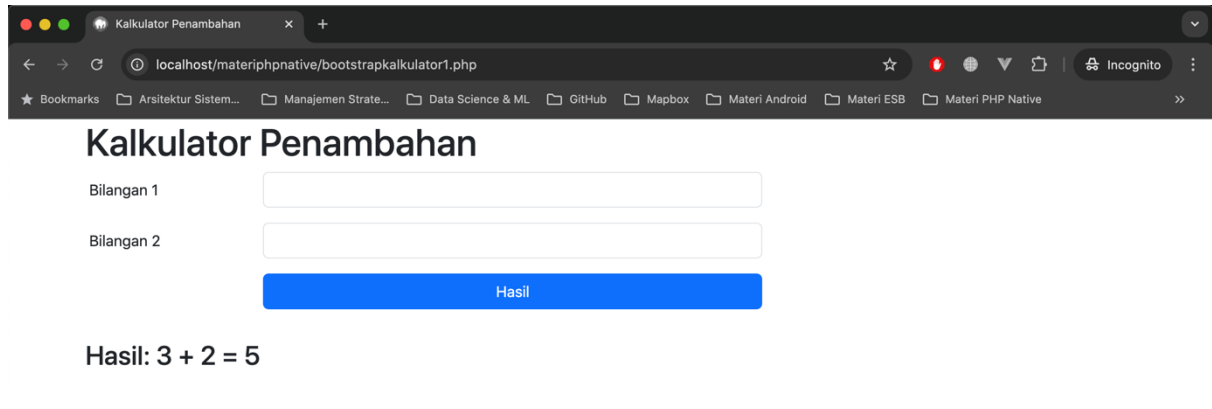
```
bootstrap1.php X
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1 <!doctype html>
2 <html lang="en">
3   <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1">
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12  </body>
13 </html>
```

Kalkulator PHP dengan Bootstrap Form

Setelah mempelajari komponen Bootstrap, mari kita langsung implementasikan form Bootstrap dengan membuat aplikasi kalkulator. Ketik kode seperti berikut.

```
bootstrapkalkulator1.php X
bootstrapkalkulator1.php
1 <html lang="en">
2 <head>
3 <title>Kalkulator Penambahan</title>
4 <link href="bootstrap-5.3.3-dist/css/bootstrap.min.css" rel="stylesheet" crossorigin="anonymous">
5 </head>
6 <body>
7 <div class="container">
8 <h1>Kalkulator Penambahan</h1>
9 <form class="row g-3" method="POST" action="">
10 <div class="row mt-3 mb-3">
11 <label for="inputEmail3" class="col-2 col-form-label">Bilangan 1</label>
12 <div class="col-6">
13 <input type="text" class="form-control" name="angka1">
14 </div>
15 </div>
16 <div class="row mb-3">
17 <label for="inputEmail3" class="col-2 col-form-label">Bilangan 2</label>
18 <div class="col-6">
19 <input type="text" class="form-control" name="angka2">
20 </div>
21 </div>
22 <div class="row mb-3">
23 <div class="col-2">
24 <!-- KOSONG -->
25 </div>
26 <div class="col-6">
27 <button type="submit" class="btn btn-primary w-100">Hasil</button>
28 </div>
29 </div>
30 </form>
31
32 <?php
33 // Mengecek apakah form telah disubmit
34 if ($_SERVER["REQUEST_METHOD"] == "POST") {
35 // Mengambil nilai dari input form
36 $angka1 = $_POST['angka1'];
37 $angka2 = $_POST['angka2'];
38
39 // Melakukan penjumlahan
40 $hasil = $angka1 + $angka2;
41
42 // Menampilkan hasil penjumlahan
43 echo "<h3>Hasil: $angka1 + $angka2 = $hasil</h3>";
44 }
45 ?>
46 </div>
47 </body>
48 </html>
```

Hasilnya.



The screenshot shows a web browser window with the title "Kalkulator Penambahan". The address bar displays "localhost/materiphpnative/bootstrapkalkulator1.php". The browser's bookmark bar includes "Arsitektur Sistem...", "Manajemen Strate...", "Data Science & ML", "GitHub", "Mapbox", "Materi Android", "Materi ESB", and "Materi PHP Native". The page content features a heading "Kalkulator Penambahan" followed by two input fields labeled "Bilangan 1" and "Bilangan 2". The first field contains the value "3" and the second contains "2". A blue button labeled "Hasil" is positioned below the inputs. The result is displayed as "Hasil: 3 + 2 = 5".

Kalkulator 4 Operator PHP dengan Bootstrap Form

Kemudian menggabungkan latihan kalkulator 4 operator sebelumnya namun dengan form bootstrap.

```
bootstrapkalkulator2.php x
bootstrapkalkulator2.php
1 <html lang="en">
2 <head>
3 <title>Kalkulator Penambahan</title>
4 <link href="bootstrap-5.3.3-dist/css/bootstrap.min.css" rel="stylesheet" crossorigin="anonymous">
5 </head>
6 <body>
7 <div class="container">
8 <h1>Kalkulator 4 Operator</h1>
9 <form class="row g-3" method="POST" action="">
10 <div class="row mt-3 mb-3">
11 <label for="inputEmail3" class="col-2 col-form-label">Bilangan 1</label>
12 <div class="col-6">
13 <input type="text" class="form-control" name="angka1">
14 </div>
15 </div>
16 <div class="row mb-3">
17 <div class="col-2">
18 <label for="inputState" class="form-label">Operator</label>
19 </div>
20 <div class="col-6">
21 <select name="operator" class="form-select">
22 <option selected>Pilih...</option>
23 <option value="tambah">Tambah</option>
24 <option value="kurang">Kurang</option>
25 <option value="kali">Kali</option>
26 <option value="bagi">Bagi</option>
27 </select>
28 </div>
29 </div>
30 <div class="row mb-3">
31 <label for="inputEmail3" class="col-2 col-form-label">Bilangan 2</label>
32 <div class="col-6">
33 <input type="text" class="form-control" name="angka2">
34 </div>
35 </div>
```

```
36 <div class="row mb-3">
37 <div class="col-2">
38 <!-- KOSONG -->
39 </div>
40 <div class="col-6">
41 <button type="submit" class="btn btn-primary w-100">Hasil</button>
42 </div>
43 </div>
44 </form>
45
46 <?php
47 // Mengecek apakah form telah disubmit
48 if ($_SERVER["REQUEST_METHOD"] == "POST") {
49     // Mengambil nilai dari input form
50     $angka1 = $_POST['angka1'];
51     $angka2 = $_POST['angka2'];
52     $operator = $_POST['operator'];
53
54     if ($operator == "tambah") {
55         $hasil = $angka1 + $angka2;
56         echo "Hasil Penambahan: " . $hasil;
57     } elseif ($operator == "kurang") {
58         $hasil = $angka1 - $angka2;
59         echo "Hasil Pengurangan: " . $hasil;
60     } elseif ($operator == "kali") {
61         $hasil = $angka1 * $angka2;
62         echo "Hasil Perkalian: " . $hasil;
63     } elseif ($operator == "bagi") {
64         $hasil = $angka1 / $angka2;
65         echo "Hasil Pembagian: " . $hasil;
66     }
67 }
68 ?>
69 </div>
70 </body>
71 </html>
```

Hasilnya.

Kalkulator Penambahan

localhost/materiphpnative/bootstrapkalkulator2.php

Kalkulator 4 Operator

Bilangan 1: 5

Operator: Pilih...

Bilangan 2: 3

Hasil

Hasil Pengurangan: 2