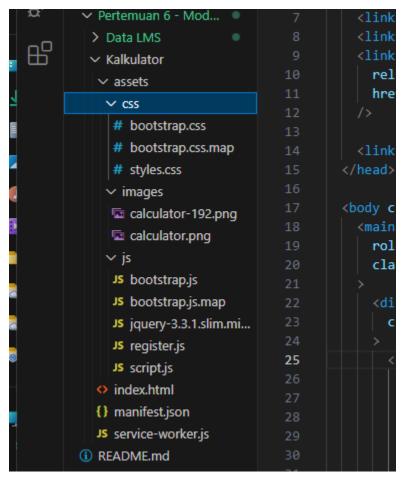
NAMA : RIFKI MAULANA

KELAS : TI VC

NIM : A2.2100111

MP. PENGEMBANGAN APLIKASI PLATFORM KHUSUS | HASIL PEMBELAJARAN MODUL 6 PERTEMUAN 6

1. Membuat directory baru Kalkulator



2. Code index.html

```
<link rel="stylesheet" type="text/css"</pre>
  href="assets/css/bootstrap.css" />
10.
      <link rel="stylesheet" type="text/css" href="assets/css/styles.css"</pre>
11.
      klink
12.
      rel="stylesheet"
13.
        href="https://fonts.googleapis.com/css?family=Open+Sans:600,700"
14.
15.
16.
     <link rel="manifest" href="manifest.json" />
17. </head>
18.
19. <body class="align-items-start pt-0 flex-column">
20.
     <main
21.
        role="main"
22.
        class="container-fluid col-xl-4 col-lg-4 col-md-6 col-sm-12 col-
  12 pt-0 pl-0 pr-0"
23.
24.
        <div
25.
          class="container-user d-flex flex-row justify-content-between
  px-3 py-4"
26.
27.
          <div class="content-text flex-xolumn w-100">
28.
           29.
             Selamat Datang
30.
           31.
           32.
             App Kalkulator Sederhana
33.
            34.
          </div>
35.
36.
          <a class="content-image-profile flex-shrink" href="profile">
37.
           <div class="frame-image">
38.
39.
               src="assets/images/calculator.png"
40.
               alt="profile"
41.
               srcset=""
42.
               id="dataImage"
43.
44.
           </div>
45.
          </a>
46.
        </div>
47.
48.
        <div id="calculator">
          <div id="result">
49.
```

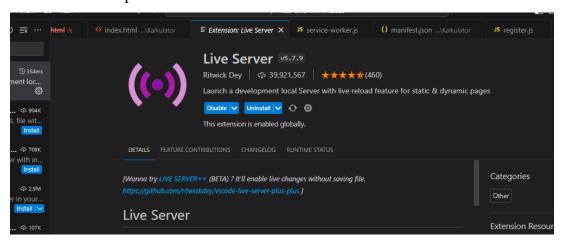
```
50.
            <div id="history">
51.
               52.
             </div>
53.
             <div id="output">
54.
              </div>
55.
56.
           </div>
57.
58.
           <div class="container-fluid">
59.
             <div class="row mb-3">
60.
               <div class="col-3 col-xs-3">
61.
                 <button
62.
                  class="btn btn-danger btn-circle btn-xl operator"
63.
                  id="clear"
64.
65.
                  C
66.
                 </button>
67.
               </div>
               <div class="col-3 col-xs-3">
68.
69.
                 <button
                  class="btn btn-danger btn-circle btn-xl operator"
70.
71.
                  id="backspace"
72.
73.
                  CE
74.
                </button>
75.
               </div>
76.
               <div class="col-3 col-xs-3">
77.
                 <button
78.
                  class="btn btn-dark btn-circle btn-xl operator"
79.
                  id="percent"
80.
81.
                  %
82.
                 </button>
83.
              </div>
84.
               <div class="col-3 col-xs-3">
85.
                 <button
86.
                  class="btn btn-dark btn-circle btn-xl operator"
87.
                  id="divide"
88.
89.
90.
                 </button>
91.
              </div>
92.
             </div>
93.
             <div class="row mb-3">
              <div class="col-3 col-xs-3">
94.
```

```
95.
                  <button class="btn btn-gray btn-circle btn-xl number"</pre>
   id="7">
96.
97.
                  </button>
98.
               </div>
99.
               <div class="col-3 col-xs-3">
100.
                     <button class="btn btn-gray btn-circle btn-xl number"</pre>
   id="8">
101.
                       8
102.
                     </button>
103.
                   </div>
104.
                   <div class="col-3 col-xs-3">
105.
                    <button class="btn btn-gray btn-circle btn-xl number"</pre>
  id="9">
106.
                       9
107.
                     </button>
108.
                   </div>
                   <div class="col-3 col-xs-3">
109.
110.
                    <button class="btn btn-dark btn-circle btn-xl</pre>
   operator" id="*">
111.
                       ×
112.
                    </button>
113.
                  </div>
114.
                </div>
115.
                <div class="row mb-3">
116.
                  <div class="col-3 col-xs-3">
117.
                     <button class="btn btn-gray btn-circle btn-xl number"</pre>
   id="4">
118.
                       4
119.
                     </button>
120.
                   </div>
121.
                   <div class="col-3 col-xs-3">
122.
                     <button class="btn btn-gray btn-circle btn-xl number"</pre>
   id="5">
123.
                       5
124.
                     </button>
125.
                   </div>
126.
                   <div class="col-3 col-xs-3">
127.
                     <button class="btn btn-gray btn-circle btn-xl number"</pre>
   id="6">
128.
                       6
129.
                     </button>
130.
                   </div>
                   <div class="col-3 col-xs-3">
131.
```

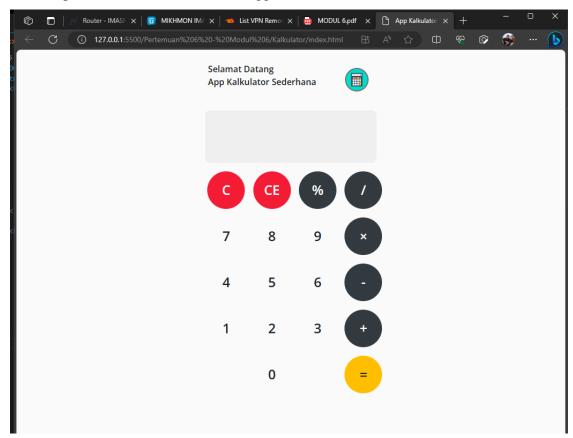
```
<button class="btn btn-dark btn-circle btn-xl</pre>
132.
   operator" id="-">
133.
134.
                   </button>
135.
                  </div>
136.
                </div>
137.
                <div class="row mb-3">
138.
                  <div class="col-3 col-xs-3">
139.
                    <button class="btn btn-gray btn-circle btn-xl number"</pre>
  id="1">
140.
141.
                    </button>
142.
                  </div>
143.
                  <div class="col-3 col-xs-3">
144.
                    <button class="btn btn-gray btn-circle btn-xl number"</pre>
  id="2">
145.
                      2
146.
                    </button>
147.
                  </div>
148.
                  <div class="col-3 col-xs-3">
149.
                    <button class="btn btn-gray btn-circle btn-xl number"</pre>
  id="3">
150.
151.
                    </button>
152.
                  </div>
153.
                  <div class="col-3 col-xs-3">
154.
                    <button class="btn btn-dark btn-circle btn-xl</pre>
  operator" id="+">
155.
156.
                    </button>
157.
                  </div>
158.
                </div>
159.
                <div class="row mb-3">
                  <div class="col-3 col-xs-3">
160.
161.
162.
                      class="btn btn-gray btn-circle btn-xl empty"
163.
                      id="empty"
164.
                    ></button>
165.
                  </div>
166.
                  <div class="col-3 col-xs-3">
167.
                    <button class="btn btn-gray btn-circle btn-xl number"</pre>
  id="0">
168.
                      0
169.
                    </button>
170.
                  </div>
```

```
171.
                  <div class="col-3 col-xs-3">
172.
                    <button
173.
                      class="btn btn-gray btn-circle btn-xl empty"
174.
                      id="empty"
175.
                    ></button>
176.
                  </div>
177.
                  <div class="col-3 col-xs-3">
178.
                    <button class="btn btn-warning btn-circle btn-xl</pre>
   operator" id="=">
179.
180.
                    </button>
181.
                  </div>
182.
               </div>
183.
             </div>
184.
            </div>
185.
          </main>
186.
187.
          <script src="assets/js/jquery-3.3.1.slim.min.js"></script>
188.
         <script src="assets/js/bootstrap.js"></script>
189.
          <script src="assets/js/script.js"></script>
190.
          <script src="assets/js/register.js"></script>
191.
       </body>
192. </html>
193.
```

2. Install live server pada VS CODE



3. Tampilan index.html didalam menggunakan url live server



4. Code js/script.js

```
5. function getHistory() {
6.    return document.getElementById("history-value").innerText;
7. }
8.
9. function printHistory(num) {
10. document.getElementById("history-value").innerText = num;
11.}
12.
13. function getOutput() {
14. return document.getElementById("output-values").innerText;
15.}
16.
17. function printOutput(num) {
18. if (num == "") {
19. document.getElementById("output-values").innerText = num;
19.
```

```
20.
    } else {
21.
       document.getElementById("output-values").innerText =
22.
         getFormattedNumber(num);
23. }
24.}
25.
26.function getFormattedNumber(num) {
    if (num == "-") {
28.
       return "";
29. }
30. var n = Number(num);
31. var value = n.toLocaleString("en");
32. return value;
33.}
34.
35.function reverseNumberFormat(num) {
36. return Number(num.replace(/,/g, ""));
37.}
38.
39.var operator = document.getElementsByClassName("operator");
40.for (var i = 0; i < operator.length; i++) {
     operator[i].addEventListener("click", function () {
42.
       if (this.id == "clear") {
43.
         printHistory("");
44.
         printOutput("");
45.
       } else if (this.id == "backspace") {
46.
         var output = reverseNumberFormat(getOutput()).toString();
47.
         if (output) {
48.
           //if output has a value
49.
           output = output.substr(0, output.length - 1);
50.
           printOutput(output);
51.
52.
       } else {
53.
         var output = getOutput();
54.
         var history = getHistory();
         if (output == "" && history != "") {
55.
56.
           if (isNaN(history[history.length - 1])) {
57.
             history = history.substr(0, history.length - 1);
58.
59.
         if (output != "" || history != "") {
60.
61.
           output = output == "" ? output : reverseNumberFormat(output);
62.
           history = history + output;
63.
           if (this.id == "=") {
64.
             var result = eval(history);
```

```
65.
             printOutput(result);
66.
             printHistory("");
67.
           } else {
68.
             history = history + this.id;
69.
             printHistory(history);
70.
             printOutput("");
71.
72.
73.
74. });
75.}
76.
77.var number = document.getElementsByClassName("number");
78. for (var i = 0; i < number.length; i++) {
     number[i].addEventListener("click", function () {
80.
       var output = reverseNumberFormat(getOutput());
81.
       if (output != NaN) {
82.
         output = output + this.id;
83.
         printOutput(output);
84.
85. });
86.}
87.
```

5. code js/register.js

```
document.addEventListener("DOMContentLoaded", init, false);

function init() {
   if ("serviceWorker" in navigator && navigator.onLine) {
      navigator.serviceWorker.register("/service-worker.js").then(
          (reg) => {
          console.log("Registrasi service worker Berhasil", reg);
      },
      (err) => {
          console.error("Registrasi service worker Gagal", err);
      }
    );
   }
}
```

6. Menyisipkan js/script.js dan js/register.html pada index.html

```
# bootstrap.css.map
# styles.css

vimages
calculator-192.png
calculator.png
vjs
Js bootstrap.js.map
Js piquery-3.3.1.slim.min.js"></script src="assets/js/jaquery-3.3.1.slim.min.js"></script>
<script src="assets/js/bootstrap.js"></script>
<script src="assets/js/script.js"></script>
<script src="assets/js/script.js"></script>
<script src="assets/js/script.js"></script>
<script src="assets/js/register.js"></script>
<script src="assets/js/script.js"></script>
<script src="assets/js/script.js"></script src="assets/js/script.js"></scri
```

7. Membuat Manifest.json dan service-worker.js didalam directory: root atau /kalkulator

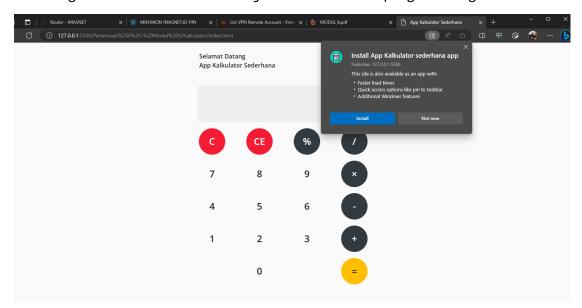
8. Code manifest.json

9. Code service-worker.html

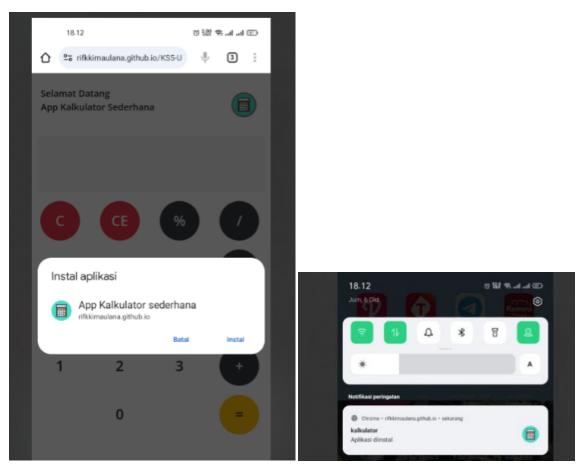
```
const CACHE_NAME = "SW-001";
const toCache = [
   "/",
   "manifest.json",
```

```
"assets/js/register.js",
  "assets/img/icon.png",
];
let deferredPrompt;
self.addEventListener("beforeinstallprompt", (e) => {
  e.preventDefault();
  deferredPrompt = e;
  showInstallPromotion();
});
self.addEventListener("install", function (event) {
  event.waitUntil(
    caches.open(CACHE_NAME).then(function (cache) {
      return cache.addAll(toCache);
    })
  );
});
self.addEventListener("fetch", function (event) {
  event.respondWith(
    fetch(event.request).catch(() => {
      return caches.open(CACHE_NAME).then((cache) => {
        return cache.match(event.request);
      });
    })
  );
});
self.addEventListener("activate", function (event) {
  event.waitUntil(
    caches.keys().then((keyList) => {
      return Promise.all(
        keyList.map((key) => {
          if (key !== CACHE_NAME) {
            console.log("[ServiceWorker] Hapus cache lama", key);
            return caches.delete(key);
        })
     );
    })
```

10. Langkah terakhir adalah menjalankan kembali program dengan live server

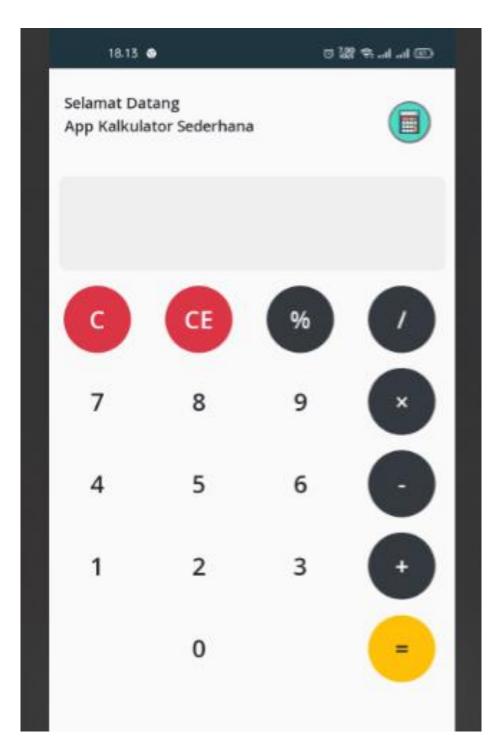


11. Uci coba menjalankan program melalui smartphone









TERIMAKASIH