

PEMROGRAMAN WEB MOBILE

PERTEMUAN 15



Disusun oleh :

Nama : RICKY HANANDITYA R
NIM : 225411017
Kelas : IF-K1

**PROGRAM STUDI INFORMATIKA
PROGRAM SARJANA
FAKULTAS TEKNOLOGI INFORMASI
UNIVERSITAS TEKNOLOGI DIGITAL INDONESIA
YOGYAKARTA
2024/2025**

Index

```
<> index.html
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    <meta name="theme-color" content="#4CAF50" />
7    <title>Perpustakaan PWA</title>
8    <link rel="manifest" href="manifest.json" />
9    <link rel="stylesheet" href="style.css" />
10 </head>
11 <body>
12   <div id="status" class="online">● Online</div>
13   <div class="container">
14     <h1>📖 Perpustakaan Sederhana</h1>
15     <form id="book-form">
16       <input type="text" id="title" placeholder="Judul Buku" required />
17       <input type="text" id="author" placeholder="Penulis" required />
18       <button type="submit">Tambah Buku</button>
19     </form>
20     <ul id="book-list"></ul>
21   </div>
22
23   <script src="main.js"></script>
24   <script>
25     if ('serviceWorker' in navigator) {
26       navigator.serviceWorker.register('sw.js').then(() => console.log('Service Worker Registered'));
27     }
28   </script>
29 </body>
30 </html>
```

Activate Wi

Css

```
1  √ * {
2    box-sizing: border-box;
3    margin: 0;
4    padding: 0;
5    font-family: 'Segoe UI', sans-serif;
6  }
7
8  √ body {
9    background: ■ #f4f6f9;
10   color: □ #333;
11   display: flex;
12   justify-content: center;
13   align-items: start;
14   padding: 40px 20px;
15   min-height: 100vh;
16 }
17
18 √ .container {
19   width: 100%;
20   max-width: 500px;
21   background: ■ #fff;
22   padding: 30px;
23   border-radius: 15px;
24   box-shadow: 0 4px 20px □ rgba(0,0,0,0.1);
25 }
26
27 √ h1 {
28   text-align: center;
29   margin-bottom: 25px;
30   color: ■ #4CAF50;
31 }
32
```

```
33 form {
34   display: flex;
35   gap: 10px;
36   flex-wrap: wrap;
37   margin-bottom: 20px;
38 }
39
40 input {
41   flex: 1 1 45%;
42   padding: 10px;
43   border: 1px solid #ccc;
44   border-radius: 8px;
45 }
46
47 button {
48   flex: 1 1 100%;
49   padding: 12px;
50   border: none;
51   border-radius: 8px;
52   background-color: #4CAF50;
53   color: white;
54   font-weight: bold;
55   cursor: pointer;
56   transition: background 0.3s ease;
57 }
58
59 button:hover {
60   background-color: #45a049;
61 }
62
```

```
63   ul {
64     list-style: none;
65   }
66
67   ✓ li {
68     background: ■ #e9f5ec;
69     padding: 12px 16px;
70     border-radius: 8px;
71     display: flex;
72     justify-content: space-between;
73     align-items: center;
74     margin-bottom: 10px;
75   }
76
77   ✓ .actions button {
78     margin-left: 5px;
79     background-color: ■ #ff6f61;
80     border: none;
81     padding: 6px 10px;
82     color: ■ white;
83     border-radius: 5px;
84     cursor: pointer;
85   }
86
87   ✓ .actions button.edit {
88     background-color: ■ #2196f3;
89   }
90
91
92   ✓ #status {
93     position: fixed;
94     top: 0;
```

```
92  ✓ #status {  
93      position: fixed;  
94      top: 0;  
95      left: 0;  
96      right: 0;  
97      padding: 8px;  
98      text-align: center;  
99      font-weight: bold;  
100     z-index: 1000;  
101 }  
102  
103  ✓ .online {  
104     background-color: #d4edda;  
105     color: #155724;  
106 }  
107  
108  ✓ .offline {  
109     background-color: #f8d7da;  
110     color: #721c24;  
111 }  
112
```

Sw.js

```
JS sw.js
1  const CACHE_NAME = 'perpustakaan-v1';
2  const ASSETS = [
3    '/',
4    'index.html',
5    'style.css',
6    'main.js',
7    'manifest.json'
8  ];
9
10 self.addEventListener('install', e => {
11   e.waitUntil(
12     caches.open(CACHE_NAME).then(cache => cache.addAll(ASSETS))
13   );
14   self.skipWaiting();
15 });
16
17 self.addEventListener('fetch', e => {
18   e.respondWith(
19     caches.match(e.request).then(res => res || fetch(e.request))
20   );
21 });
22
```

```

1  JS main.js > ...
2  1  const bookForm = document.getElementById('book-form');
3  2  const bookList = document.getElementById('book-list');
4  3  let books = JSON.parse(localStorage.getItem('books')) || [];
5  4
6  5  function renderBooks() {
7  6      bookList.innerHTML = '';
8  7      books.forEach((book, index) => {
9  8          const li = document.createElement('li');
10 9          li.innerHTML = `<span><strong>${book.title}</strong> - ${book.author}</span>
1110          |         <span class="actions">
1211          |             <button class="edit" onclick="editBook(${index})">Edit</button>
1312          |             <button onclick="deleteBook(${index})">Hapus</button>
1413          |         </span>`;
1514          bookList.appendChild(li);
1615      });
1716  }
18
19  bookForm.addEventListener('submit', (e) => {
20  1  e.preventDefault();
21  2  const title = document.getElementById('title').value.trim();
22  3  const author = document.getElementById('author').value.trim();
23  4  if (title && author) {
24  5      books.push({ title, author });
25  6      localStorage.setItem('books', JSON.stringify(books));
26  7      renderBooks();
27  8      bookForm.reset();
28  9  }
29  });

```

```
1 const bookForm = document.getElementById('book-form');
2 const bookList = document.getElementById('book-list');
3 let books = JSON.parse(localStorage.getItem('books')) || [];
```

```
18 bookForm.addEventListener('submit', (e) => {
19     e.preventDefault();
20     const title = document.getElementById('title').value.trim();
21     const author = document.getElementById('author').value.trim();
22     if (title && author) {
23         books.push({ title, author });
24         localStorage.setItem('books', JSON.stringify(books));
25         renderBooks();
26         bookForm.reset();
27     }
28 });
29
```



```
29
30 function deleteBook(index) {
31     books.splice(index, 1);
32     localStorage.setItem('books', JSON.stringify(books));
33     renderBooks();
34 }
35
36 function editBook(index) {
37     const book = books[index];
38     document.getElementById('title').value = book.title;
39     document.getElementById('author').value = book.author;
40     books.splice(index, 1);
41 }
42
43 renderBooks();
44 const statusIndicator = document.getElementById('status');
45
46 function updateOnlineStatus() {
47     if (navigator.onLine) {
48         statusIndicator.textContent = '● Online';
49         statusIndicator.className = 'online';
50     } else {
51         statusIndicator.textContent = '● Offline';
52         statusIndicator.className = 'offline';
53     }
54 }
55
56 window.addEventListener('online', updateOnlineStatus);
57 window.addEventListener('offline', updateOnlineStatus);
58 updateOnlineStatus(); // Set awal
59
```

Manifest.json

```
{  
  "name": "Perpustakaan Sederhana",  
  "short_name": "Perpustakaan",  
  "start_url": "index.html",  
  "display": "standalone",  
  "background_color": "#ffffff",  
  "theme_color": "#4CAF50",  
  "icons": [  
    {  
      "src": "icon.png",  
      "sizes": "192x192",  
      "type": "image/png"  
    }  
  ]  
}
```

Tampilan

● Online



Perpustakaan Sederhana

Tambah Buku

Offline



Perpustakaan Sederhana

Tambah Buku

http://127.0.0.1:5500/

Network requests

Update

Unregister

Source

[sw.js](#)

Received 7/22/2025, 7:18:39 AM

Status

● #1789 activated and is running

Stop

Clients

http://127.0.0.1:5500/favicon.ico

Push

Test push message from DevTools.

Push

Sync

test-tag-from-devtools

Sync

Periodic sync

test-tag-from-devtools

Periodic sync

Update Cycle

| Version | Update Activity | Timeline |
|---------|-----------------|----------|
|---------|-----------------|----------|

▶ #1789

Install



▶ #1789

Wait



▶ #1789

Activate



● Online



Perpustakaan Sederhana

Tambah Buku

Sejarah Indonesia - Ricky

Edit

Hapus

● Online



Perpustakaan Sederhana

Tambah Buku

Sejarah Indonesia - Ricky

Edit

Hapus



Perpustakaan Sederhana

Tambah Buku

Sejarah Php - Yoga

Edit

Hapus