

1a.nama aplikasi:pembelian online handphone

b.aplikasi ini dilengkapi dengan pwa:add to home screen,service worker, offline fitur dan responsive, dengan konten home,pesn product dan contact.

c. pwa:add to home screen,service worker, offline fitur dan responsive.

2. a.web yng mendukung responsive web layout

<meta name="viewport" content="width=device-width, initial-scale=1">

b.service worker

script instal:

<script>

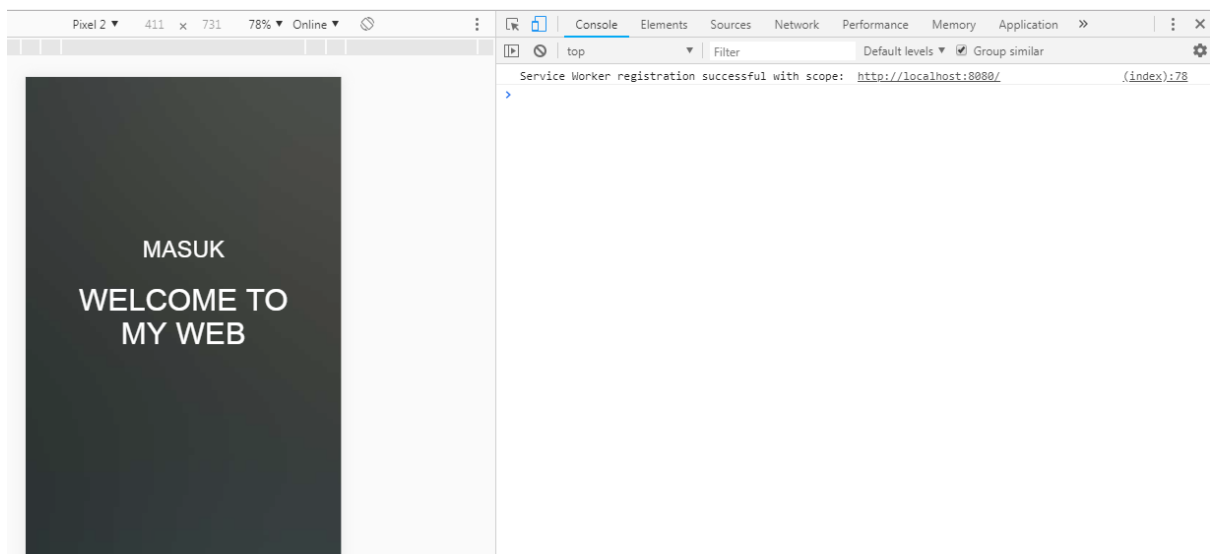
```
if ('serviceWorker' in navigator) {  
  navigator.serviceWorker.register('service-worker.js')  
    .then(function(registration) {  
      console.log('Service Worker registration successful with scope: ',  
        registration.scope);  
    })  
    .catch(function(err) {  
      console.log('Service Worker registration failed: ', err);  
    });  
}
```

</script>

Service worker.js:

```
(function() {  
  'use strict';  
  
  // TODO 2.1 - Cache static assets on install  
  var CACHE_NAME = 'elektronik';  
  var urlsToCache = [  
    '.',  
    'index.html',  
    'cover_bg_1.jpg',  
    'app/index.html',  
    'app/admin/css/materialize.css',  
    'app/admin/js/materialize.js',  
    'app/css/nivo-slider.css',  
    'app/js/jquery.tools.min.js',  
    'app/contact.html',  
    'app/img/demo/xi2.jpg',  
    'app/img/demo/xi3.jpg',  
    'app/img/demo/xi4a.jpg',  
    'app/img/demo/xi5.jpg',  
    'app/img/demo/xinot5.jpg',  
    'app/css/style.css'  
  ];  
};
```

Hasil eksekusi service worker ter instal



Application	◀ ▶ ↺ ✕
<ul style="list-style-type: none"> Manifest Service Workers Clear storage 	
Storage	
<ul style="list-style-type: none"> Local Storage Session Storage IndexedDB Web SQL Cookies 	
Cache	
<ul style="list-style-type: none"> Cache Storage elektronik - http://localhost Application Cache 	
Frames	

Path	Content-T...	Content-L...	Time Cach...
/	text/html; ...	2,168	7/30/2018...
app/admin/css/materialize.css	text/css; c...	197,725	7/30/2018...
app/admin/js/materialize.js	applicatio...	250,752	7/30/2018...
app/contact.html	text/html; ...	2,985	7/30/2018...
app/css/nivo-slider.css	text/css; c...	1,524	7/30/2018...
app/css/style.css	text/css; c...	44,850	7/30/2018...
app/img/body_bg.png	image/pn...	133	7/30/2018...
app/img/demo/1.jpg	image/jpe...	5,899	7/30/2018...
app/img/demo/2.jpg	image/jpe...	8,646	7/30/2018...

C.fungsi yang di jalankan saat service worker

Application	Service Workers
<ul style="list-style-type: none"> Manifest Service Workers Clear storage 	<input type="checkbox"/> Offline <input type="checkbox"/> Update on reload <input type="checkbox"/> Bypass for network
Storage	
<ul style="list-style-type: none"> Local Storage Session Storage IndexedDB Web SQL Cookies 	
Cache	
<ul style="list-style-type: none"> Cache Storage Application Cache 	
Frames	
<ul style="list-style-type: none"> top 	

localhost	Update Unregister
Source	service-worker.js
Received	7/30/2018, 3:14:03 PM
Status	● #1751 activated and is running stop
Clients	http://localhost:8080/ focus
Push	<input type="text" value="Test push message from DevTools."/> <input type="button" value="Push"/>
Sync	<input type="text" value="test-tag-from-devtools"/> <input type="button" value="Sync"/>
<ul style="list-style-type: none"> Service workers from other domains 	

d.caching file yang di gunakan

script cahche file;

```
var CACHE_NAME = 'elektronik';
```

```
var urlsToCache = [  
    '',  
    'index.html',  
    'cover_bg_1.jpg',  
    'app/index.html',  
    'app/admin/css/materialize.css',  
    'app/admin/js/materialize.js',  
    'app/css/nivo-slider.css',  
    'app/js/jquery.tools.min.js',  
    'app/contact.html',  
    'app/img/demo/xi2.jpg',  
    'app/img/demo/xi3.jpg',  
    'app/img/demo/xi4a.jpg',  
    'app/img/demo/xi5.jpg',  
    'app/img/demo/xinot5.jpg',  
    'app/css/style.css'  
];
```

Hasil cache file

Terlihat file diatas tersimpan di cache storage.

e.fungsi index db

script index db

```

function buatDatabase() {
    var request = window.indexedDB.open('elektronika', 1);
    request.onerror = kesalahanHandler;
    request.onupgradeneeded = function(e) {
        var db = e.target.result;
        db.onerror = kesalahanHandler;
        var objectstore = db.createObjectStore('produk', { keyPath: 'id' });
        pesan.innerHTML += 'Object store produk berhasil dibuat.<br>';
    }
    request.onsuccess = function(e) {
        db = e.target.result;
        db.onerror = kesalahanHandler;
        pesan.innerHTML += 'Berhasil melakukan koneksi ke database!<br>';
        bacaDariDatabase();
    }
}

```

Script function menambah ke data base indexed db

```

// Tambah ke database
tambahKeDatabase({
    id: id.value,
    nama: nama.value,
    type: type.value,
    harga: harga.value
});

```

Form Input HandPhone

ID HANDPHONE

127

NAMA

xiaomi

TYPE

5d

HARGA

6000000

TAMBAH

ID HANDPHONE	NAMA	TYPE	HARGA	
123	xiaomi	5a	2000000	Hapus
124	xiaomi	5b	3000000	Hapus
125	xiaomi	5c	4000000	Hapus
126	xiaomi	5c	5000000	Hapus
127	xiaomi	5d	6000000	Hapus

Sebelumnya menginputkan terlebih dahulu seperti pada gambar di atas makan akan tersimpan di index db seperti dibawah ini

Application	<div> <div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div></div> <div></div> </div> <div>Start from key</div> </div>		
<div> <div>Manifest</div> <div>Service Workers</div> <div>Clear storage</div> </div>	#	Key (Key path: "id")	Value
	0	"123"	▶ {id: "123", nama: "xiaomi", type
	1	"124"	▶ {id: "124", nama: "xiaomi", type
	2	"125"	▶ {id: "125", nama: "xiaomi", type
	3	"126"	▶ {id: "126", nama: "xiaomi", type
	4	"127"	▶ {id: "127", nama: "xiaomi", type
Storage			
▶ Local Storage			
▶ Session Storage			
▼ IndexedDB			
▼ elektronika - http://localhost			
▶ produk			
Web SQL			
▶ Cookies			
Cache			
▼ Cache Storage			
▶ elektronika - http://localhost			
▶ Application Cache			
Frames			
▶ top			

3.a halaman utama



b.tampilan monitor service worker

Application

Manifest

Service Workers

Clear storage

Storage

Local Storage

Session Storage

IndexedDB

Web SQL

Cookies

Cache

Cache Storage

Application Cache

Frames

top

Service Workers

☐ Offline
☐ Update on reload
☐ Bypass for network

localhost

[Update](#)
[Unregister](#)

Source

[service-worker.js](#)

Received

7/30/2018, 3:14:03 PM

Status

● #1751 activated and is running

[stop](#)

Clients

<http://localhost:8080/>

[focus](#)

Push

Push

Sync

Sync

Service workers from other domains

c.tampilan hasil cache storage

Application

Manifest

Service Workers

Clear storage

Storage

Local Storage

Session Storage

IndexedDB

Web SQL

Cookies

Cache

Cache Storage

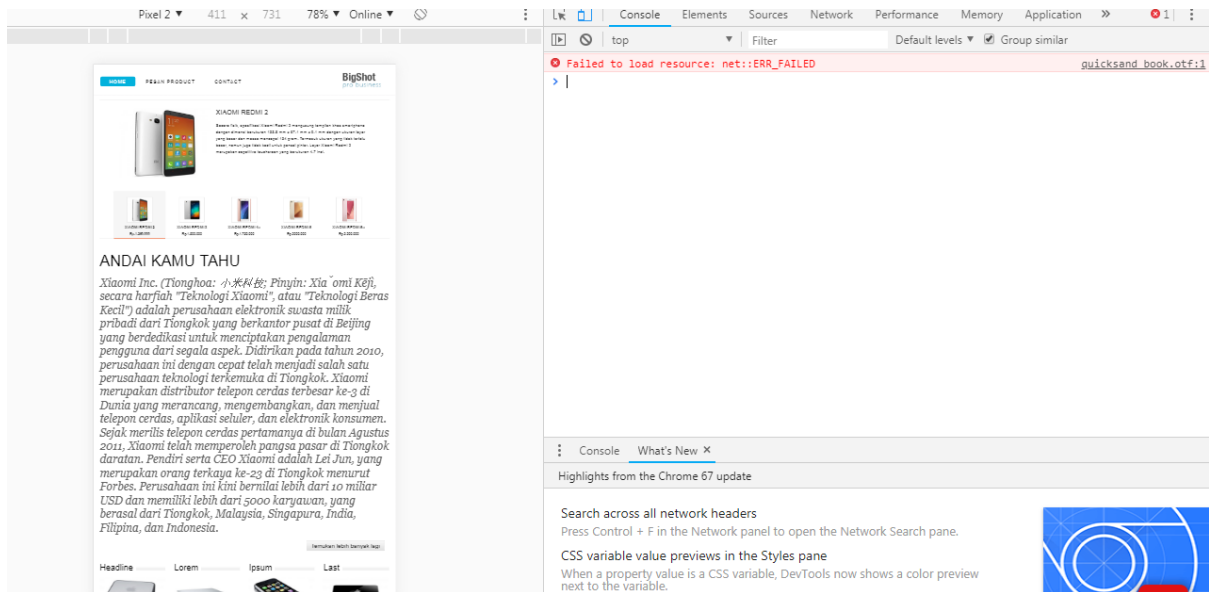
elektronik - http://localhost

Application Cache

Frames

Path	Content-T...	Content-L...	Time Cach...
/	text/html; ...	2,168	7/30/2018...
app/admin/css/materialize.css	text/css; c...	197,725	7/30/2018...
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app/contact.html	text/html; ...	2,985	7/30/2018...
app/css/nivo-slider.css	text/css; c...	1,524	7/30/2018...
app/css/style.css	text/css; c...	44,850	7/30/2018...
app/img/body_bg.png	image/pn...	133	7/30/2018...
app/img/demo/1.jpg	image/jpe...	5,899	7/30/2018...
app/img/demo/2.jpg	image/jpe...	8,646	7/30/2018...

d.tampilan object store dari indexed db



4 a.yang paling mudah; service-worker karena, pembuatan script yang simpel dan dan muda.

b.yang paling susah developer tools, karena masih terdapat error.

Alamat web host saya: <https://tepe16.github.io/praktikumwebmobiletegar/>