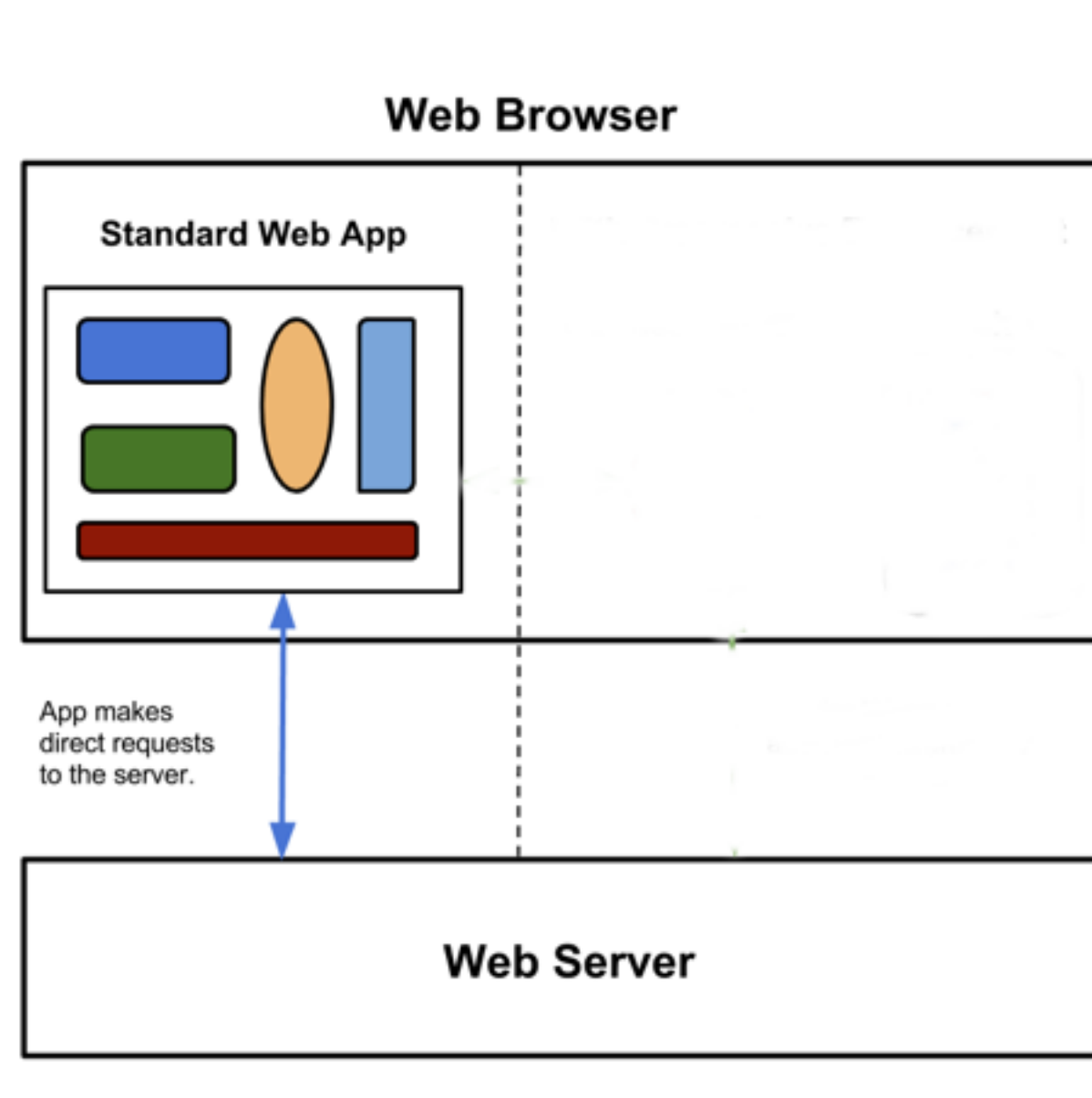


INIXINDO LAB

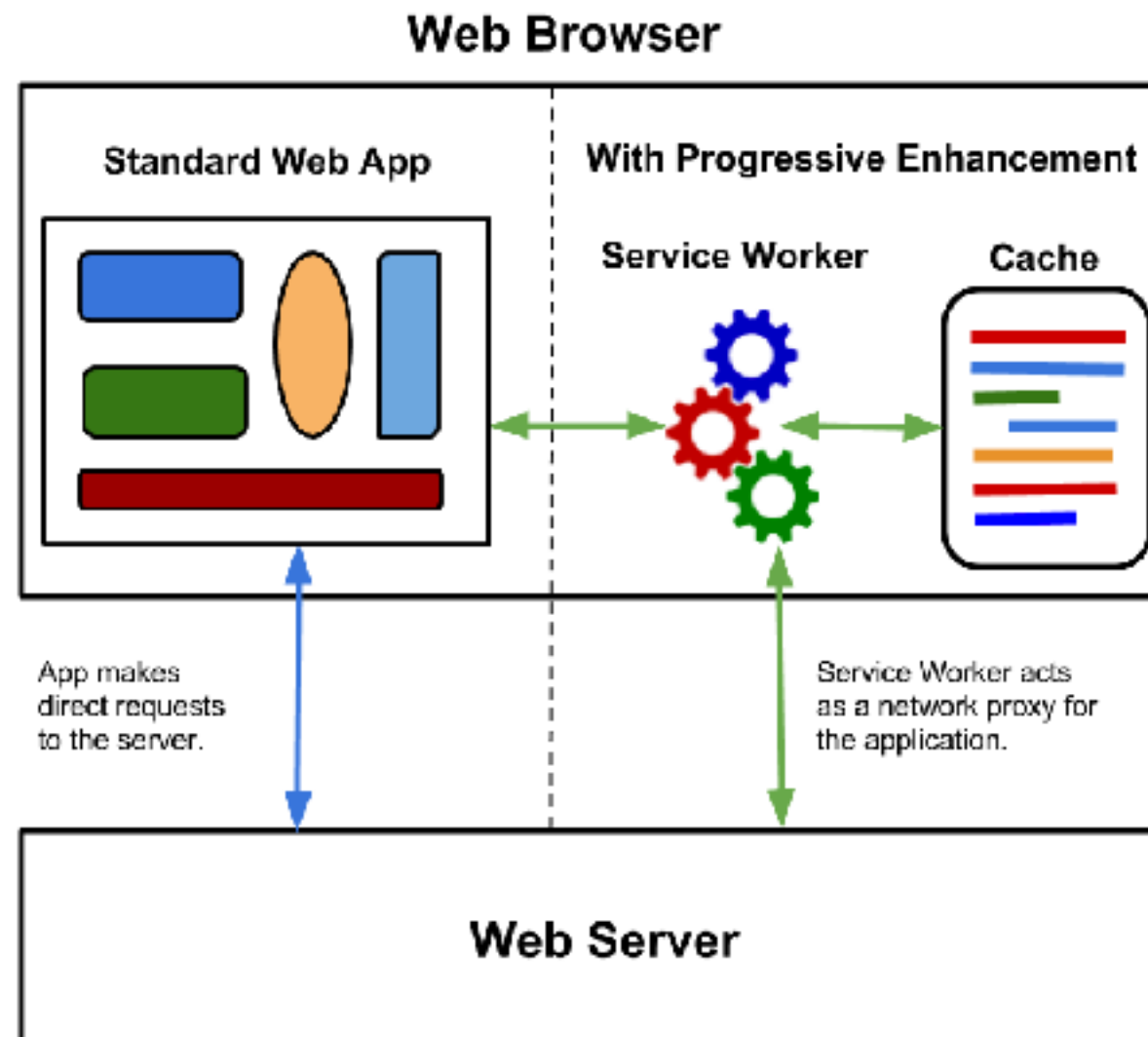
FUNDAMEN PWA



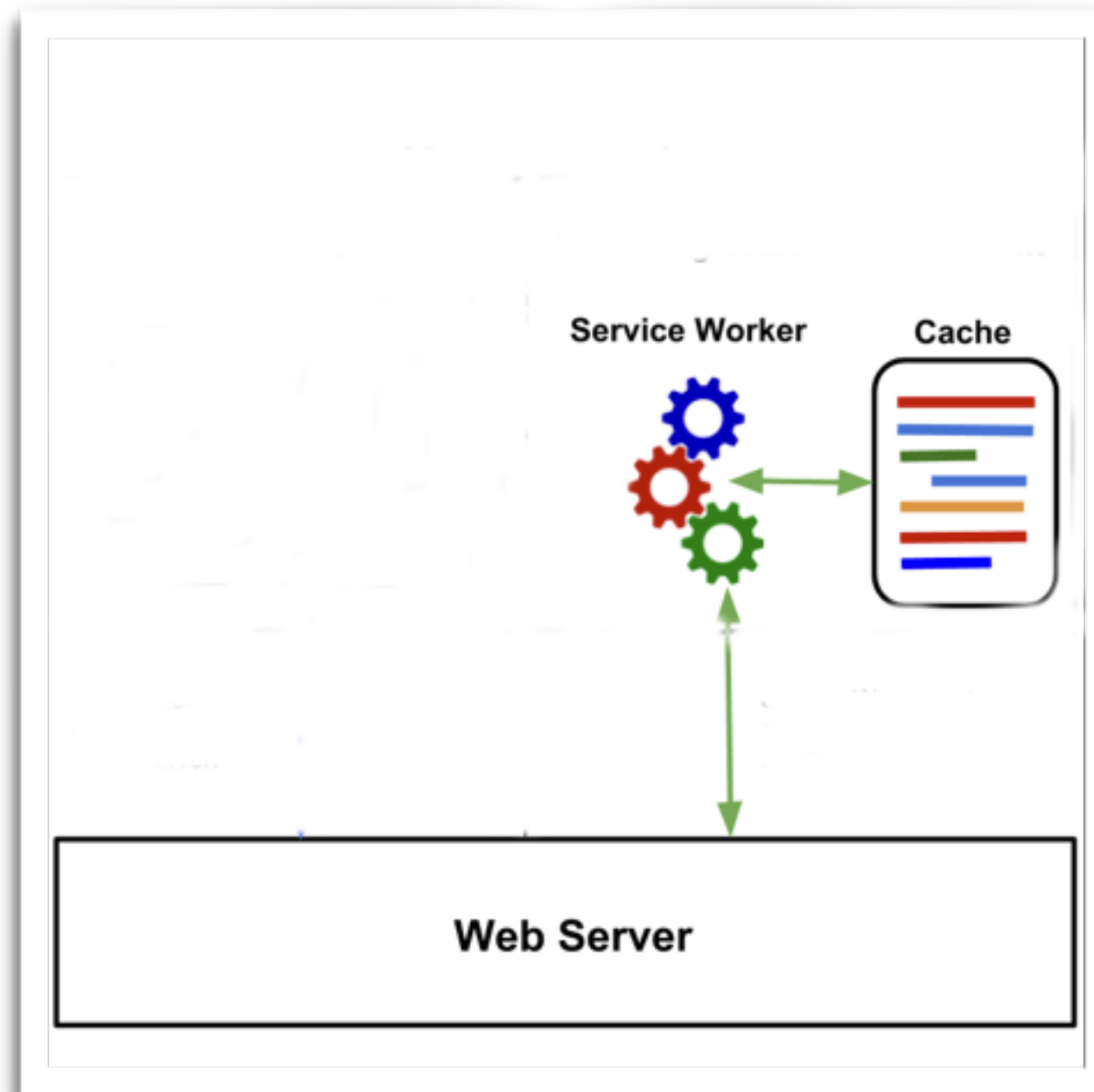
APLIKASI BERBASIS WEB



CLIENT SERVER



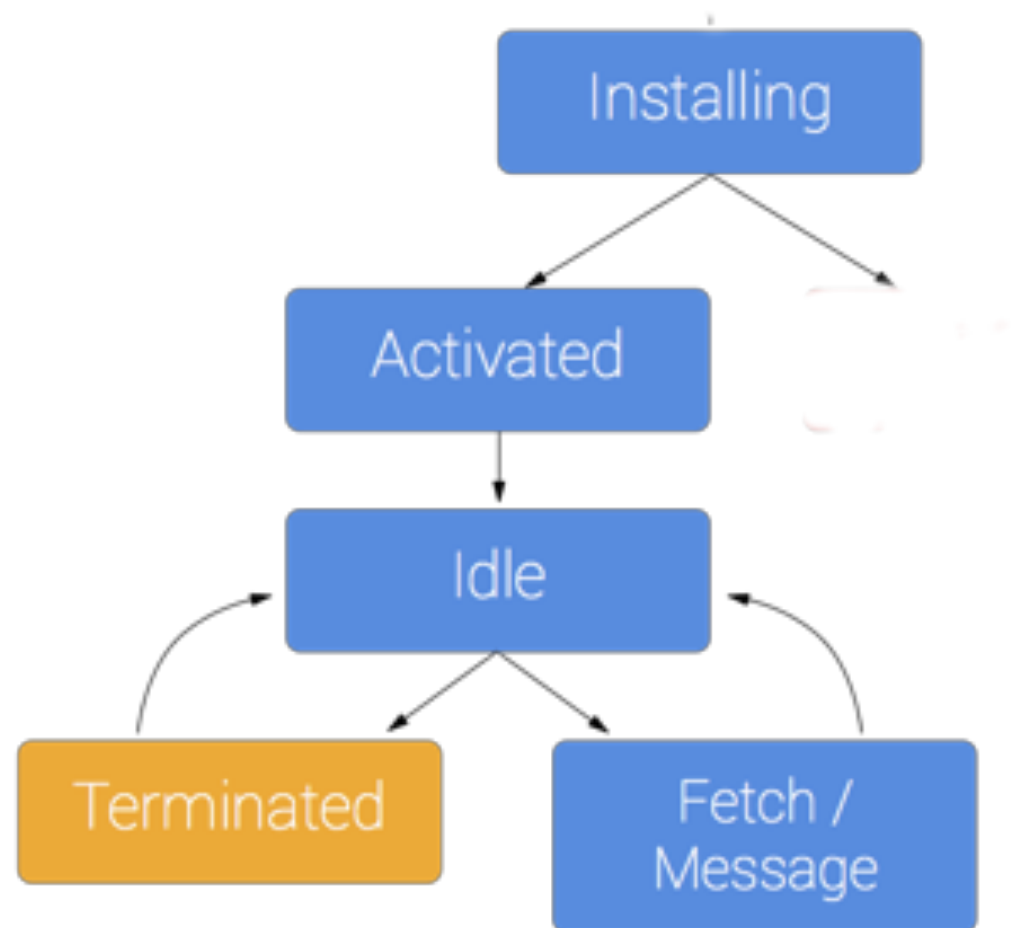
STAND-ALONE SERVICE-WORKER

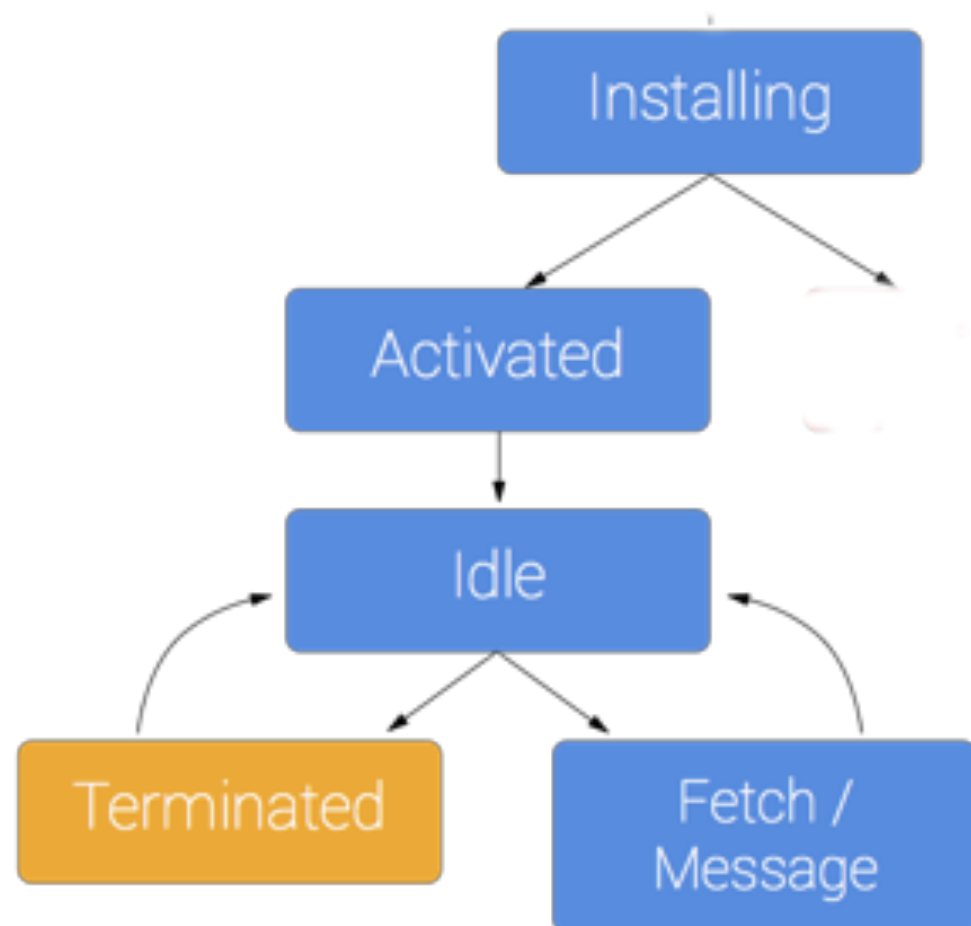


PENGERTIAN SERVICE-WORKER

- ▶ Service-Worker program JavaScript yang berjalan secara background didalam sebuah Web Browser.
- ▶ Service-Worker merupakan proses ringan (light-weight process) atau disebut juga sebagai Thread yang tidak mengkonsumsi banyak CPU-Time maupun memory.

TAHAPAN SERVICE-WORKER (EVENT)

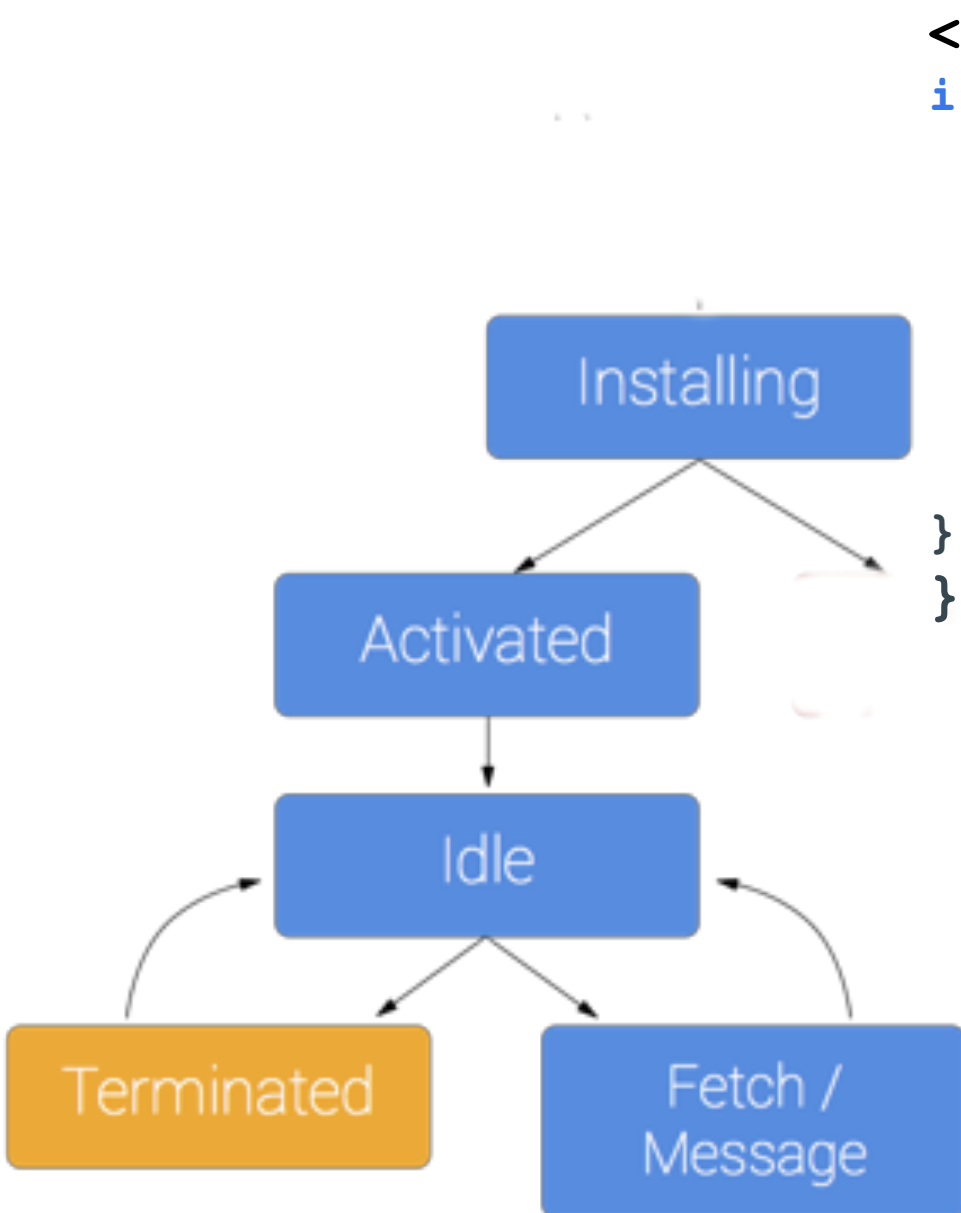




```
<script>
(function() {
  if ('serviceWorker' in navigator) {
    // SW ada
  }
  else {
    console.log('Service-Worker not supported
                in this Browser');

    return
  }
})();
```

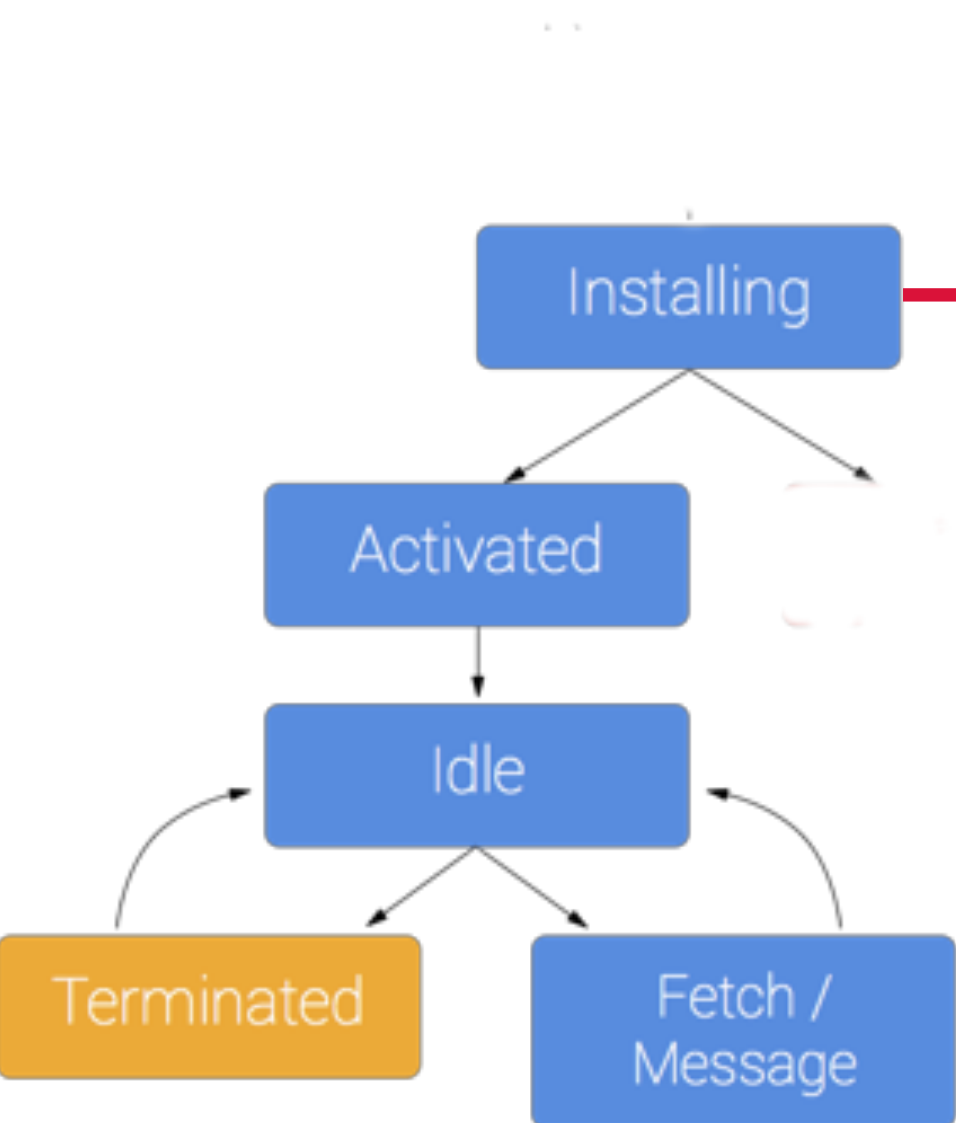
REGISTRASI SERVICE-WORKER VIA SW.JS



```
<script>
```

```
if ('serviceWorker' in navigator) {  
  // SW ada  
  // TODO: Lab 1  
  
  navigator.serviceWorker.register('SW.js')  
    .then ( () => console.log('Service Worker registered'))  
    .catch ( (error)=>console.log("Registration failed:",error))  
}  
})();
```

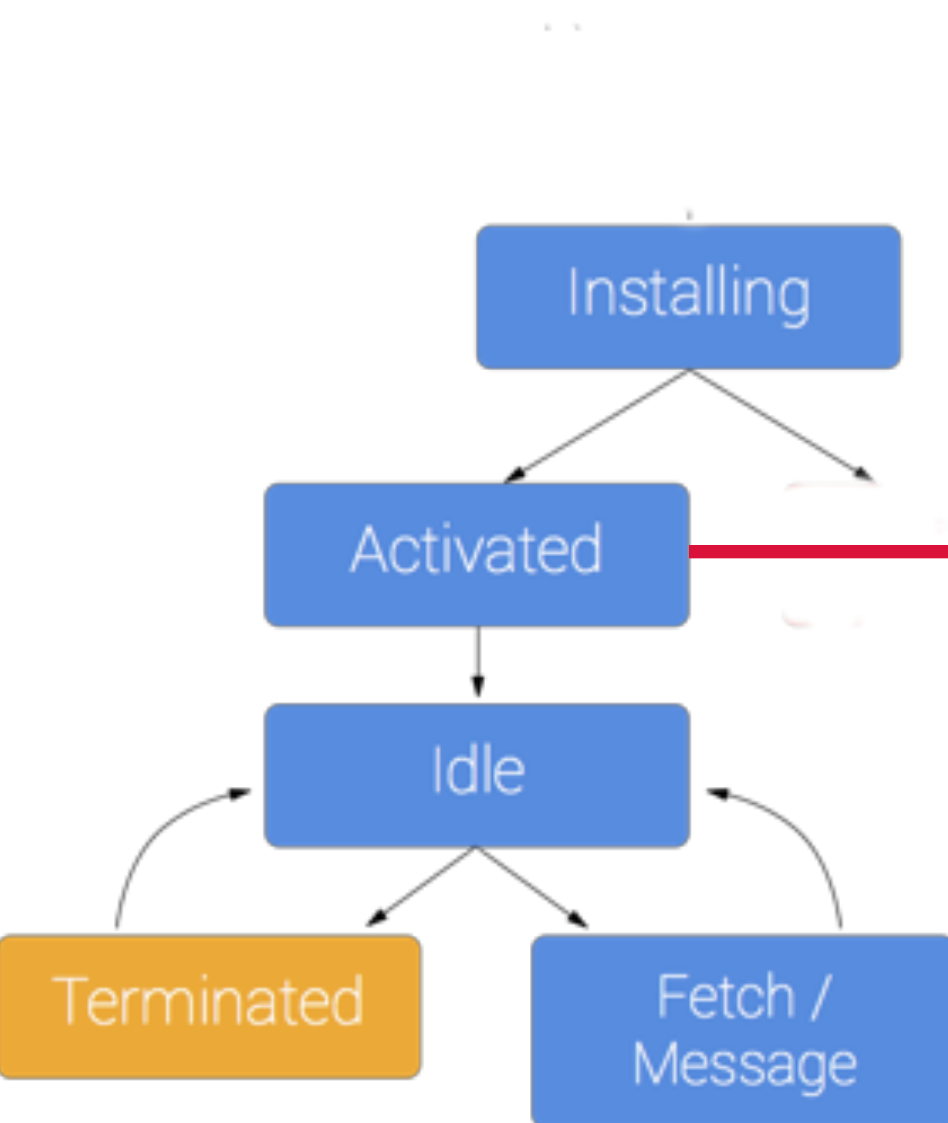

DITEKSI SERVICE-WORKER DI BROWSER



Program: sw.js

```
self.addEventListener('install', function(event) {  
  console.log('Service worker installing...');  
  // Disini program untuk inisialisasi -  
  //misalnya kreasi cache  
  // database, dan lainnya  
});  
  
self.addEventListener('activate', function(event) {  
  console.log('Service worker activating...');  
  // Program dapat melakukan peremajaan,  
  //misalnya update cache,  
  // update database, dan lainnya  
});
```

DITEKSI SERVICE-WORKER DI BROWSER



Program: sw.js

```
self.addEventListener('install', function(event) {  
  console.log('Service worker installing...');  
  // Disini program untuk inisialisasi -  
  //misalnya kreasi cache  
  // database, dan lainnya  
});  
  
self.addEventListener('activate', function(event) {  
  console.log('Service worker activating...');  
  // Program dapat melakukan peremajaan,  
  //misalnya update cache,  
  // update database, dan lainnya  
});
```

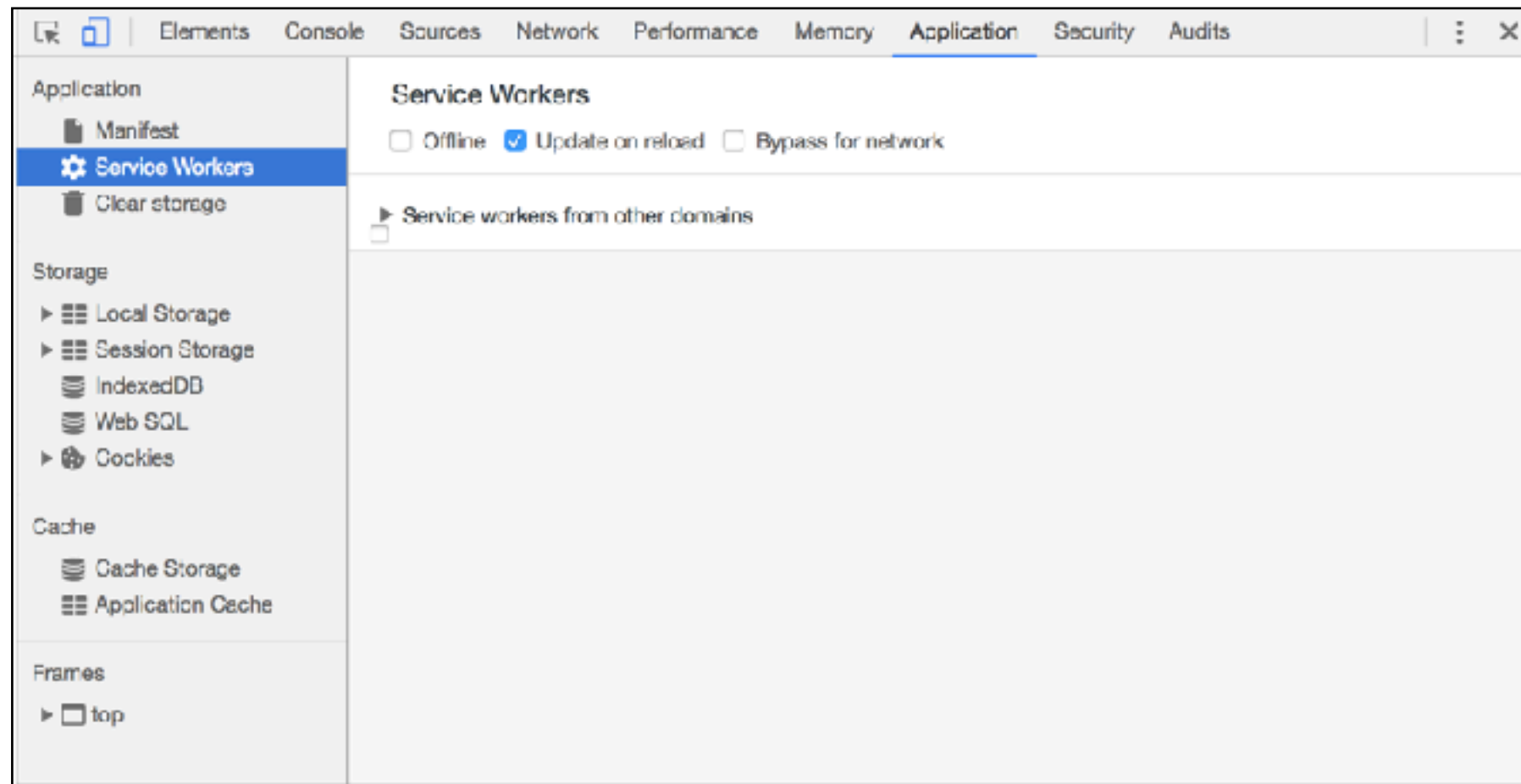
```
$ cd Workshop
```

```
$ cd wshop1
```

```
$ http-server -a localhost -c 0
```

Buka Web Browser: **<http://localhost:8080/index.html>**

Buka tiga titik icon pada layar atas kanan, pilih “Application”



checkbox “Update on reload”

TEST WEB SERVER

```
$ mkdir mypwa
```

```
$ cd mypwa
```

```
$ vi index.html
```

```
<html>
```

```
<head>
```

```
<title>test web server</title>
```

```
</head>
```

```
<body>
```

Web Server lokal berjalan dengan baik

```
</body>
```

```
</html>
```

```
#buka terminal kedua
```

```
$ http-server -p 8080 -a localhost -c 0
```

```
Starting up http-server, serving ./
```

```
Available on:
```

```
http://localhost:8080
```

```
Hit CTRL-C to stop the server
```

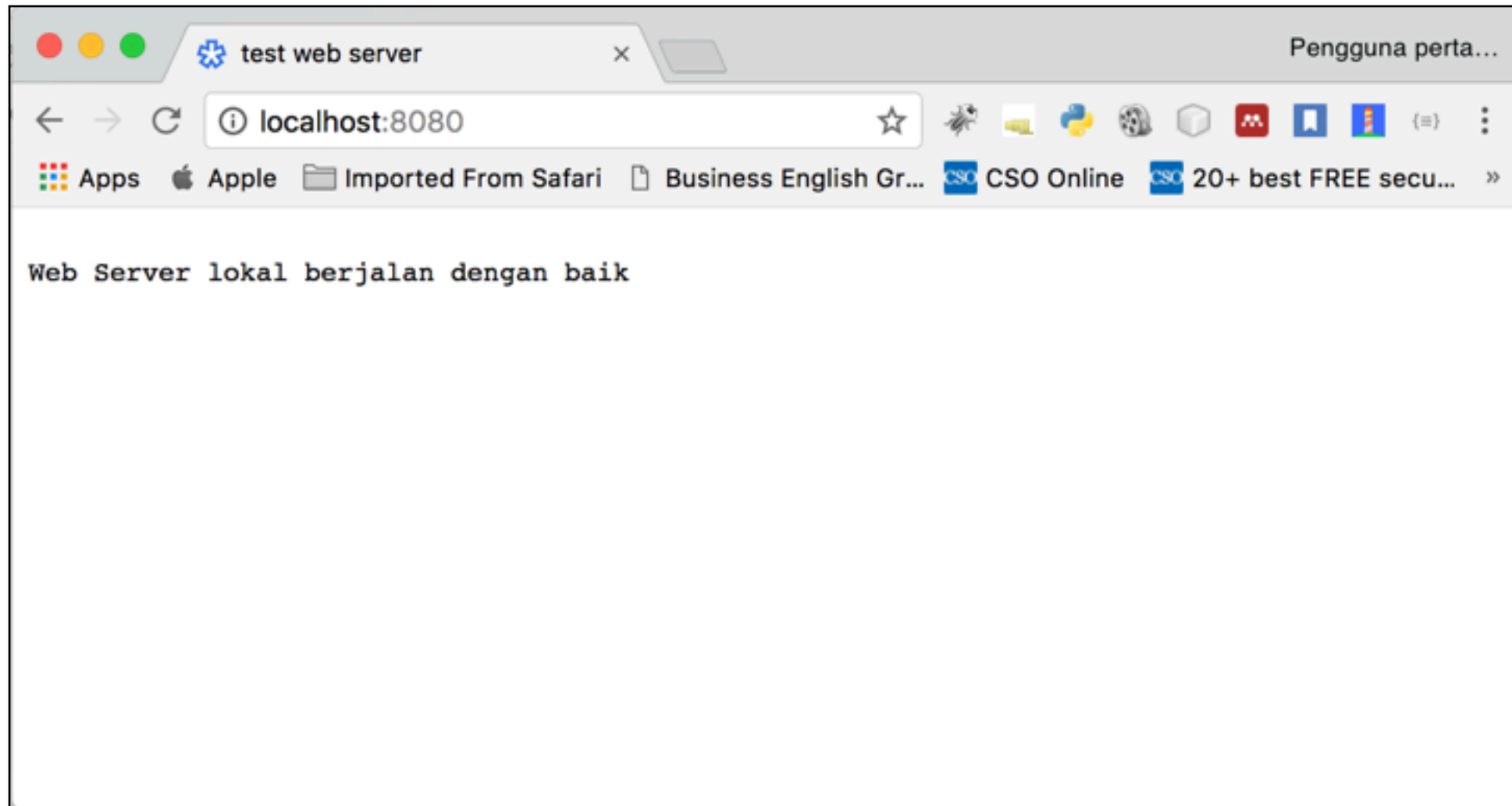
```
[Thu Sep 21 2017 12:46:38 GMT+0700 (WIB)] "GET /" "Mozilla/5.0  
(Macintosh; Intel Mac OS X 10_12_6) AppleWebKit/537.36 (KHTML, like Gecko)  
Chrome/61.0.3163.91 Safari/537.36"
```

```
[Thu Sep 21 2017 12:46:38 GMT+0700 (WIB)] "GET /favicon.ico" "Mozilla/5.0  
(Macintosh; Intel Mac OS X 10_12_6) AppleWebKit/537.36 (KHTML, like Gecko)  
Chrome/61.0.3163.91 Safari/537.36"
```

```
STOP Web Server dengan Ctrl-C
```

```
^Chttp-server stopped.
```

JALANKAN CHROME



[HTTPS://WWW.NPMJS.COM/PACKAGE/HTTP-SERVER](https://www.npmjs.com/package/http-server)

CHECK NODEJS WEBSITE HTTP-SERVER

