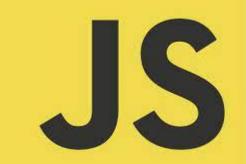
JAVASCRIPT

ASAS PENGATURACARAAN JAVASCRIPT
API DAN JS FETCH

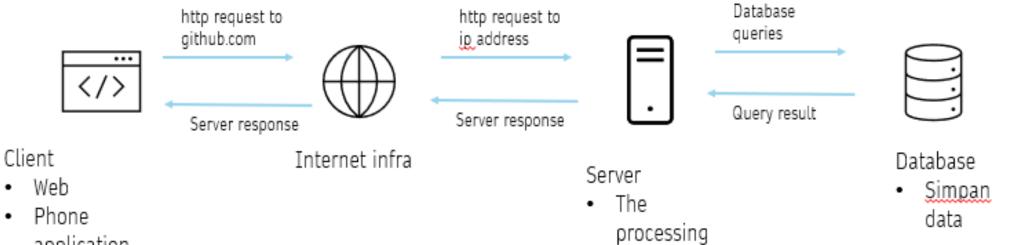


API(Application Programming Interface)

- ► An application programming interface (API) is a way for two or more computer programs or components to communicate with each other. It is a type of software interface, offering a service to other pieces of software. (https://en.wikipedia.org/wiki/API)
- Satu antara muka pengantara yang membolehkan dua aplikasi untuk berhubung dan bekerjasama.
- Contoh antaramuka
 - Database dengan backend
 - Backend dengan frontend
 - Backend dengan backend lain

WEB API

- ► API Protocol yang lazim digunakan
 - ► REST
 - ► SOAP
 - Graphql
 - Websocket
- Membolehkan aplikasi kita bekerjasama dengan aplikasi lain
- Atau aplikasi frontend dengan aplikasi backend



unit

application

Iot device

REST API

- Pilihan standad sekarang
- Dibangunkan di atas HTTP Protocol

METHOD	Name	example
GET	Index	https://jsonplaceholder.typicode.com/todos/
GET	Show	https://jsonplaceholder.typicode.com/todos/1
POST	Create	https://jsonplaceholder.typicode.com/todos/
PUT/PATCH	Update	https://jsonplaceholder.typicode.com/todos/1
DELETE	Destroy	https://jsonplaceholder.typicode.com/todos/1

JS FETCH

- ► A promise based function
 - Asynchronous

```
39  // GET index
40  fetch('https://jsonplaceholder.typicode.com/posts')
41    .then((response) => response.json())
42    .then((json) => console.log(json))
43    .catch((err) => {debugger});
44
```

```
// GET show
fetch('https://jsonplaceholder.typicode.com/posts/1')
.then((response) => response.json())
.then((json) => console.log(json))
.catch((err) => {debugger});
```

```
// POST create
52 v fetch('https://jsonplaceholder.typicode.com/posts', {
53
         method: 'POST',
         body: JSON.stringify({
54 🗸
        title: 'foo',
55
         body: 'bar',
          userId: 1,
57
        }),
         headers: {
           'Content-type': 'application/json; charset=UTF-8',
61
        },
62
       .then((response) => response.json())
63
       .then((json) => console.log(json))
64
       .catch((err) => {debugger});
```

```
68
     //PUT update
69
     fetch('https://jsonplaceholder.typicode.com/posts/1', {
       method: 'PUT',
70
       body: JSON.stringify({
72
         id: 1,
         title: 'foo',
73
         body: 'bar',
74
         userId: 1,
75
76
       }),
77
       headers: {
78
          'Content-type': 'application/json; charset=UTF-8',
79
       },
80
81
       .then((response) => response.json())
       .then((json) ⇒ console.log(json))
82
       .catch((err) => {debugger})
83
84
```

Assignment

► GET and display images using https://www.pexels.com/api/documentation

Terima Kasih. Soalan?