

Web Service

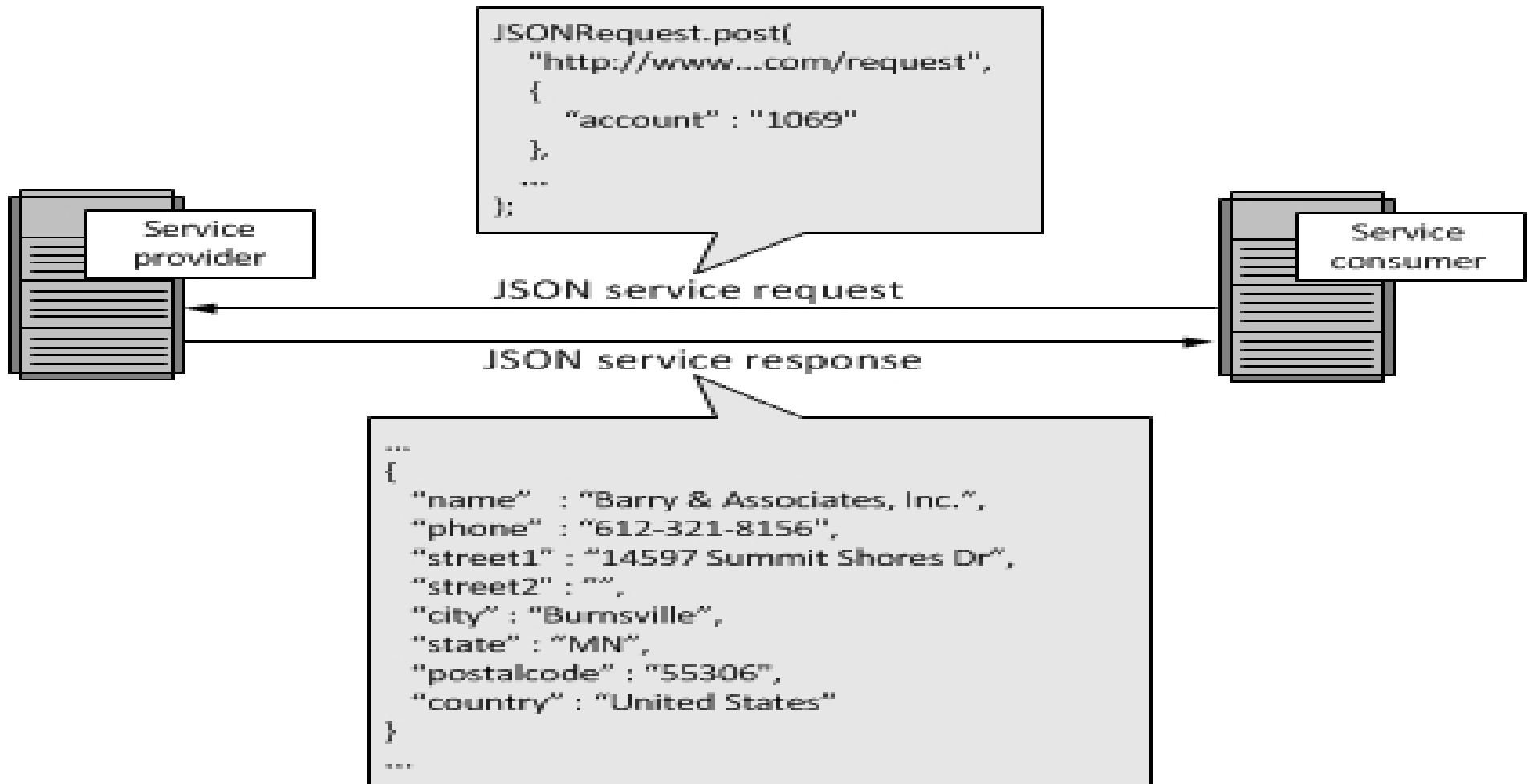
Aris Setyawan

Arissetyawan.campus@gmail.com

Mobile: +6285221807780

Profile: <https://www.linkedin.com/in/arisan>

W/S Architecture



Web Service

The API is like an artist performing on stage, and its users are the audience

Introduction

To Know

Let's Play

Facebook, Google, Github, Netflix and few other tech giants have given a chance to the developers and products to consume their data through APIs, and became a platform for them

We will consume facebook API in the next chance we meet (insyaAllah)

To Know

- (1) Terminologies
- (2) API endpoint
- (3) HTTP methods (verbs)
- (4) HTTP response status codes
- (5) Field name casing convention
- (6) Searching, sorting, filtering and pagination
- (7) Versioning

Introduction

To Know

Let's Play

Discussion

(1) Terminologies

- Resource eg. company
- Collections eg. companies
- URL eg. /companies/3

Introduction

To Know

Let's Play

(2) API endpoint

- method GET path /companies should get the list of all companies
- method GET path /companies/34 should get the detail of company 34
- method DELETE path /companies/34 should delete company 34
- method PUT path /companies/34 should update company 34

Clue: The paths should contain the plural form of resources and the HTTP method should define the kind of action to be performed on the resource

(3) HTTP methods (verbs)

- GET
- POST
- DELETE
- PUT

Introduction

To Know

Let's Play

(4) HTTP response status codes

- 200 Ok for GET, PUT or POST.
- 201 Created for instance is created
- 204 No Content eg. DELETE
- 400 Bad Request
- 401 Denied

Introduction

To Know

Let's Play

(5) Field name casing convention

We can follow any casing convention, but make sure it is consistent across the application. If the request body or response type is JSON then please follow camelCase to maintain the consistency. No strict rules, but keep consistent.

Introduction

To Know

Let's Play

```
{  
  "company":  
    {  
      "id": 4,  
      "name" : "Mukidi bin Salman",  
      "address": "Jl. Damai bahagia No. 1, Pemalang"  
      "secondAddress": "Jl. Jalan saja No. 1, Bandung"  
    }  
}
```

arissetyawan-webservices

(6) Searching, sorting, filtering and pagination

- Searching

GET /companies?keyword=Makmur

- Sorting

GET /companies?field=name&order=desc

- Filtering

GET /companies?region=Central Java

- Pagination

GET /companies?page=3

Introduction

To Know

Let's Play

(7) Versioning

- `Http://api.domain.com/v1/companies/2`
- `Http://api.domain.com/v2/companies/2`

Introduction

To Know

Let's Play

Let's Play

- Apiary.io
- RESTful
- HTTP Poster

Introduction

To Know

Let's Play

Thanks !

Door Price: Read this fast without any mistake :)

Aoccdrnig to a rseearch sduty at Cmabrigde Uinervtisy, it deosn't mtt aer in waht oredr the ltteers in a wrod are, the olny iprmoetnt tihng is taht the frist and lsat ltteer be in the rghit pclae. The rset can be a toatl mses and you can sitll raed it wouthit porbelm. Tihs is bcuseae the huamn mnid deos not raed ervey lteter by istlef, but the wrod as a wlohe.