Front-End Development

JSON-Server

Create a fake REST API

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API

- ***API*** *(Application Programming Interface)* is a software intermediary which allows applications to talk to each other.

- When you use an application on your mobile phone, the application connects to the Internet and sends data to a server. The server then retrieves that data, interprets it, performs the necessary actions and sends it back to your phone. The application then interprets that data and presents to you with the information that you wanted, in a readable way. This is what an API is - all of this happens via API.

API

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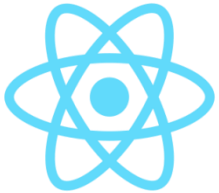

JSON-Server

- ***JSON-Server*** is created for web front-end developers who need a quick back-end for prototyping and mocking.
- With this package, developers can get a full fake REST API with ***zero coding*** in less than ***30 seconds***!
- More information click: ***github.com/typicode/json-server***

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Create Fake REST API with JSON-Server #1

- Create a project folder, for eg ***lin_fake_api***
- Create a json file on project folder, for eg ***db.json***

```
{
 "karyawan":[
  {"id":1,"nama":"Andi","usia":25,"kota":"Jakarta"},
  {"id":2,"nama":"Budi","usia":27,"kota":"Yogya"},
  {"id":3,"nama":"Caca","usia":25,"kota":"Bandung"},
  {"id":4,"nama":"Dedi","usia":31,"kota":"Jakarta"},
  {"id":5,"nama":"Euis","usia":22,"kota":"Bandung"}
 ]
}
```

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Create Fake REST API with JSON-Server #2

- On project folder, type:

  $ npm init

- Install json-server:

  $ npm install –g json-server --save

- Activate json-server:

  $ json-server --watch db.json

- Done, see on browser

  http://localhost:3000

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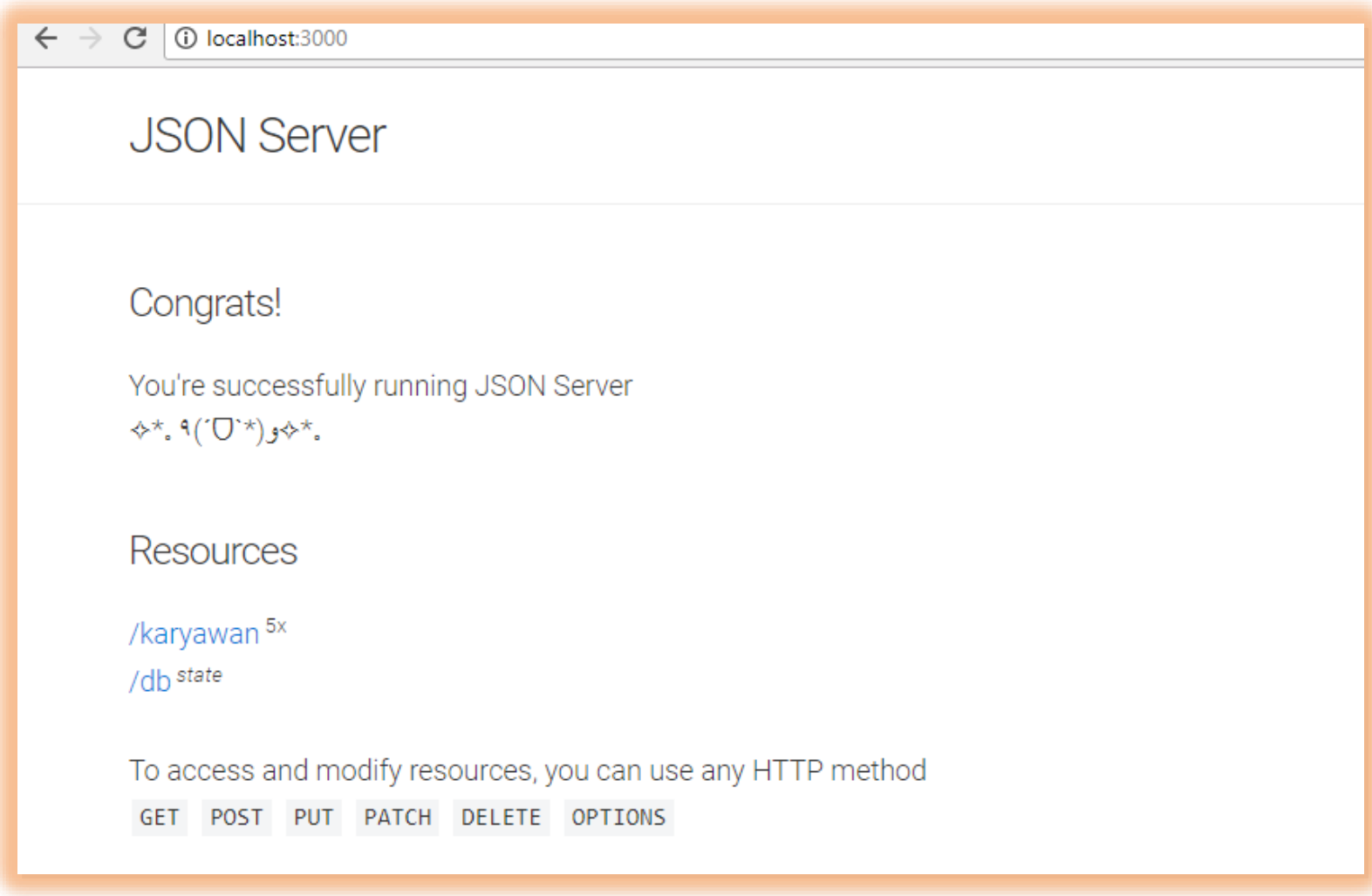
http://localhost:3000



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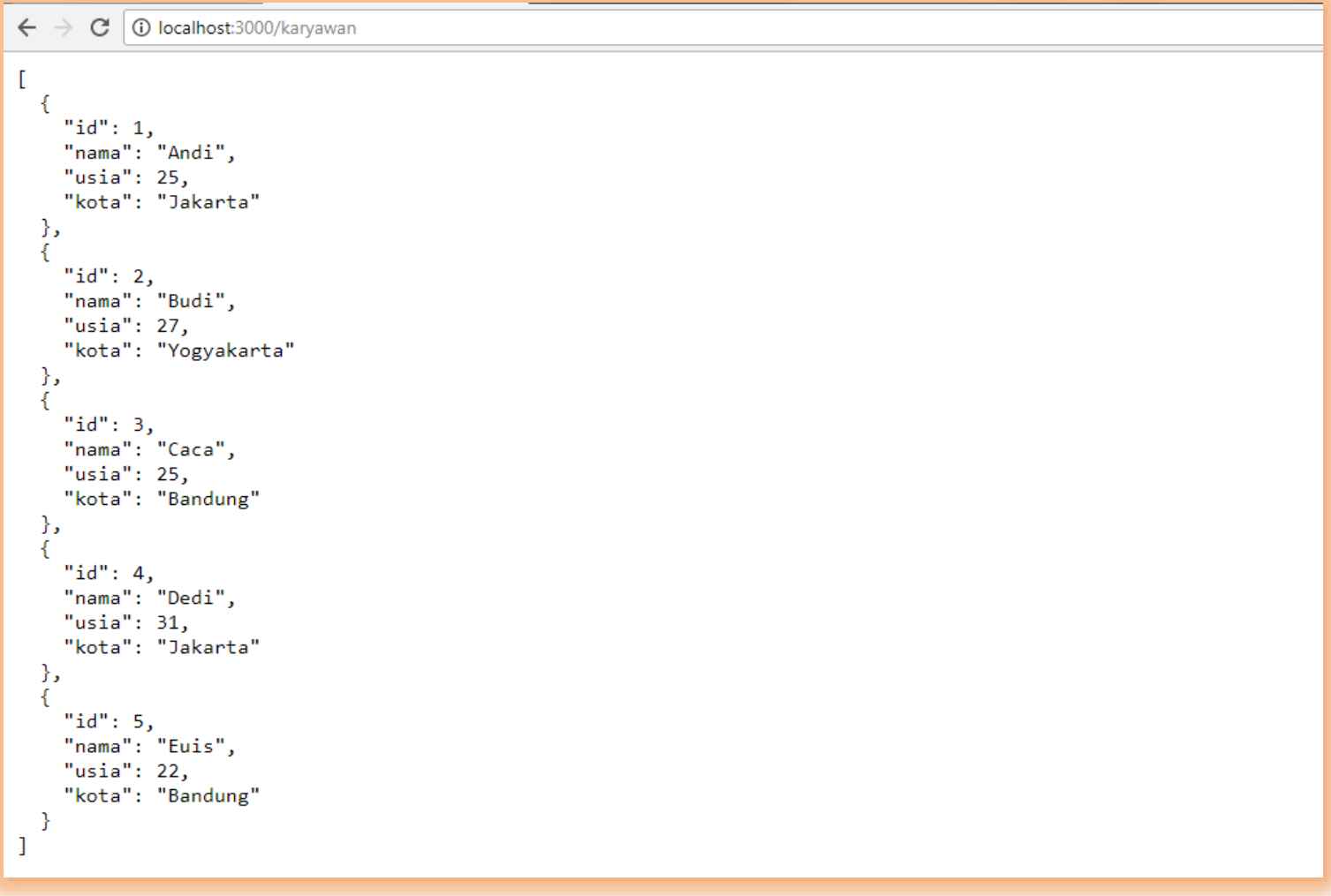
http://localhost:3000/karyawan



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GET on Postman

localhost:3000/db
localhost:3000/karyawan

localhost:3000/karyawan/3
localhost:3000/karyawan?id=3
localhost:3000/karyawan?usia=25

localhost:3000/karyawan?_limit=3
localhost:3000/karyawan?_sort=nama&_order=desc
localhost:3000/karyawan?usia_gte=26
localhost:3000/karyawan?usia_gte=23&usia_lte=27

localhost:3000/karyawan?q=Jakarta

POST on Postman

- Set POST to http://localhost:3000/karyawan
- Set Headers Key: Content-Type & value: app/json
- Insert data json on Body raw & send it, for eg:

```
{
   "id":6,
   "nama" : "Fifi",
   "usia" : 28,
   "kota" : "Medan"
}
```

- Data on db.json is updated!

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DELETE on Postman

- Set DELETE to http://localhost:3000/karyawan/5 to delete data karyawan number 5.

UPDATE on Postman

- Set PATCH to http://localhost:3000/karyawan/2 to update data karyawan number 2.
- Set Headers Key: Content-Type & value: app/json. Insert data json on Body raw & send it, for eg:

```
{
    "kota" : "Solo"
}
```

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Try to connect React Project to Fake REST API!

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