



Backend Web Development (2)

Pertemuan #5
Kamis, 8 April 2021

Andre Rusli

Silabus (1)

HTML, CSS, JS (#1)

- Perkenalan
- Alur materi dan target capaian
- Konsep dasar pengembangan aplikasi web

Frontend Development (#2-3)

- Apa, mengapa, bagaimana
- VueJS & Buefy

Silabus (2)

Backend Development & Integration (#4-5)

- Apa, mengapa, bagaimana
- Konsep dasar API (Application Programming Interface)
- Google Firebase
- Menghubungkan frontend dan backend dalam membangun aplikasi web

Wrap Up (#6)

- Review
- What's next
- Penutup



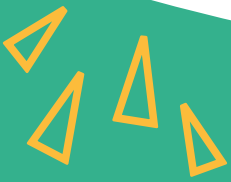
Hari Ini

- **Review** ± 50 menit

Setup Tutorial: VueJS + Buefy + Firebase ± 20 menit

Coding Tutorial: VueJS + Buefy + Firebase ± 30 menit

- **Coding Tutorial (contd.): VueJS + Firebase** ± 30 menit
- **Coding Challenge: Details** ± 10 menit



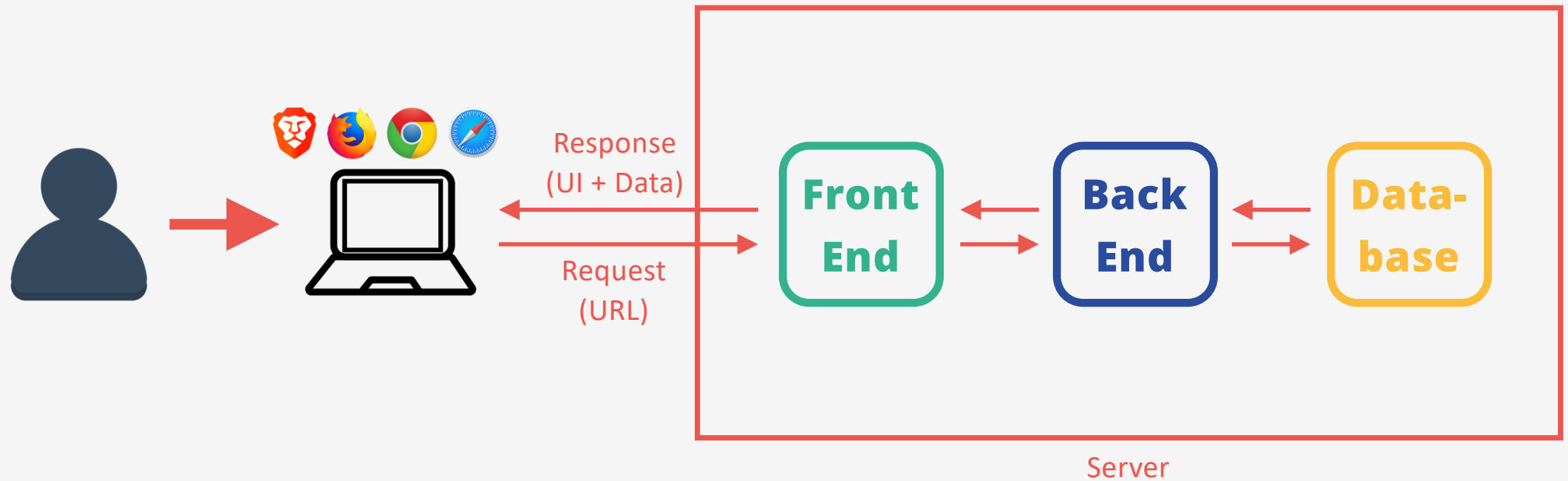


Review

1/3

± 50 menit

Web Application: How it Works



Database / Basis Data

Secara umum ada dua tipe, SQL dan NoSQL

ID	Nama	Umur	Alamat
1112	Andre	87	Jakarta
...
2224	Rusli	12	Tangerang



```
students: {  
  1112: {  
    nama: "Andre",  
    umur: 87,  
    alamat: "Jakarta",  
  },  
  ...,  
  2224: {  
    nama: "Rusli",  
    umur: 12,  
    alamat: "Tangerang",  
  },  
}
```



Firestore Realtime Database

ekskul-vue-app-default-rtdb



classes



-MWcdYbn1-S0mS9bi_En



className: "Introduction to Web Development"

classType: "paid"

instructorName: "Andre Rusli"

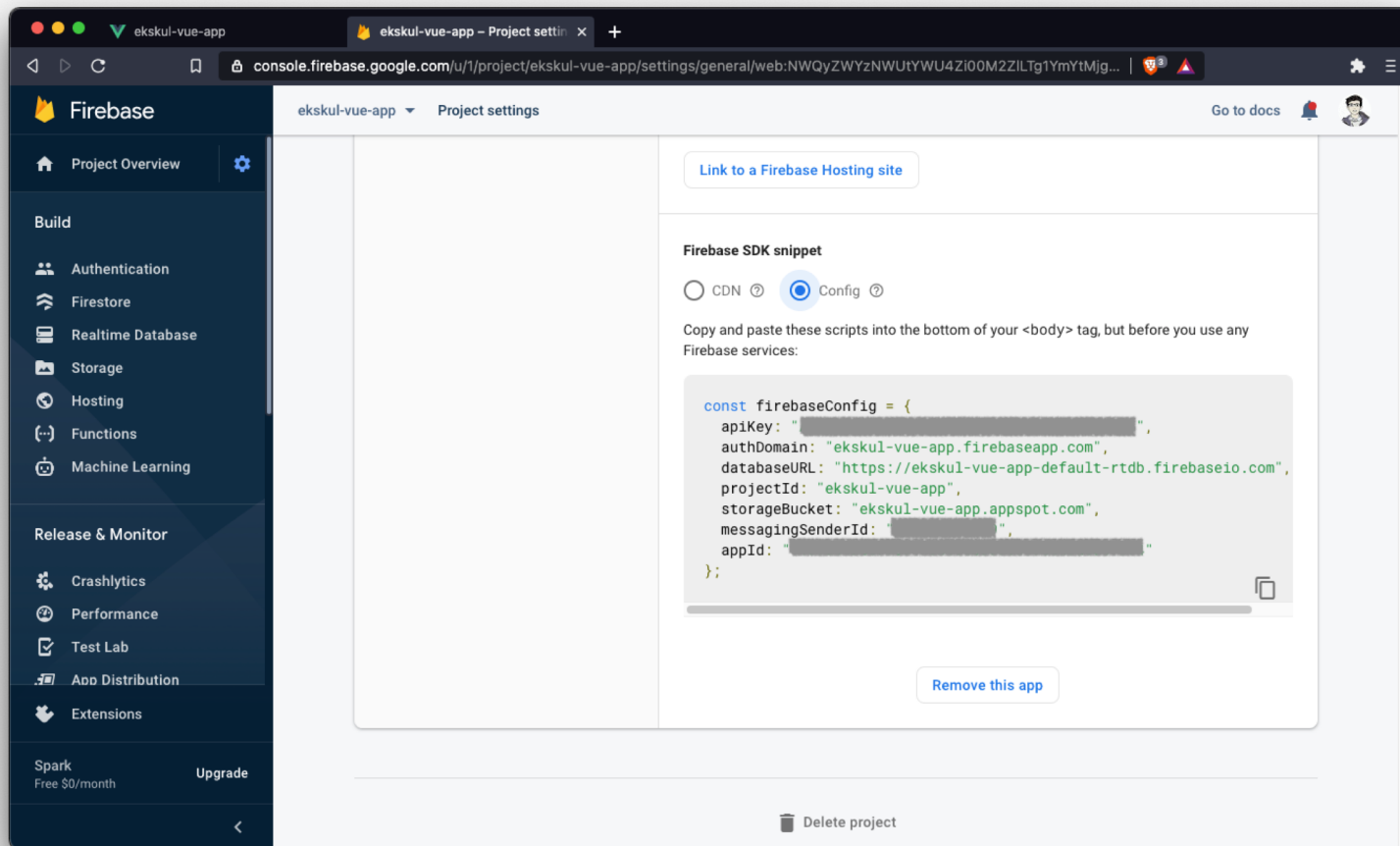
<https://console.firebase.google.com/>

<https://firebase.google.com/docs/database>

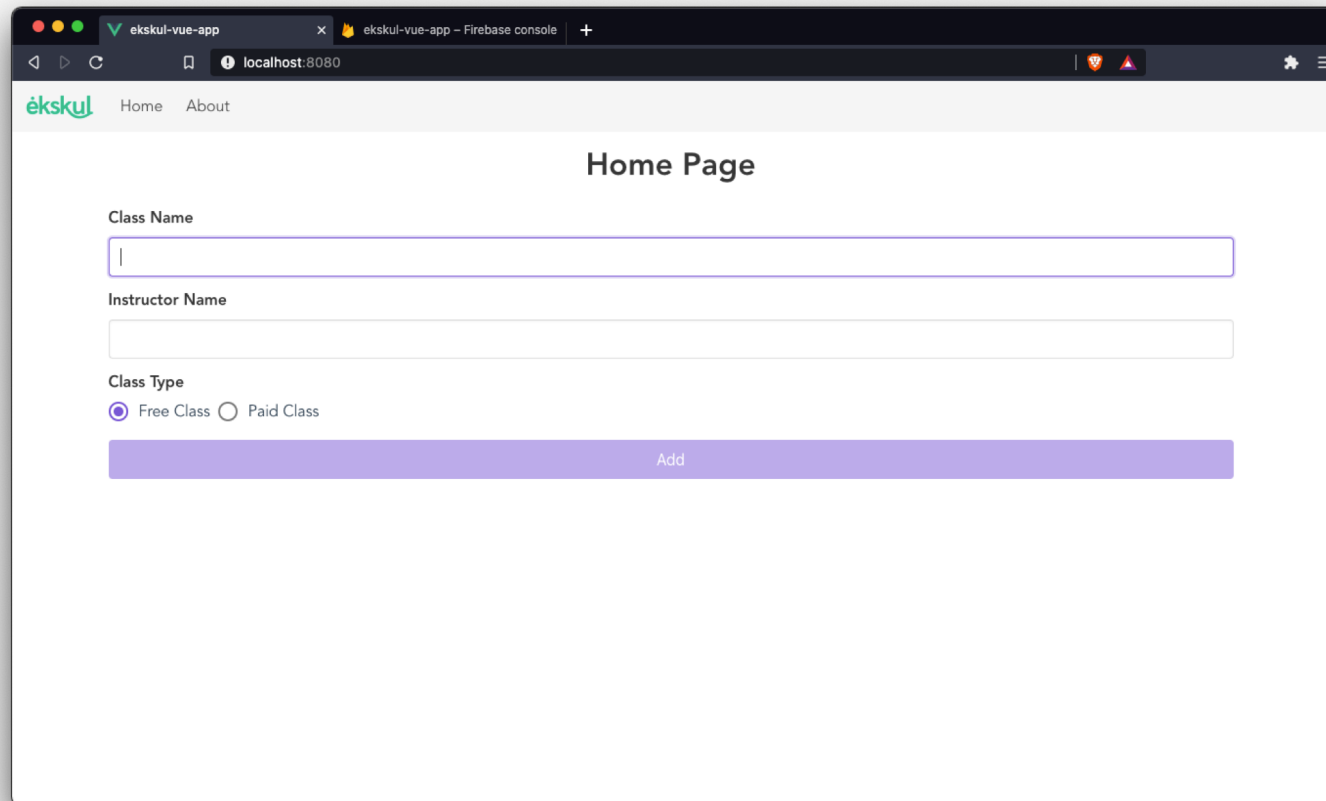


Server

Lanjutan Aplikasi Pertemuan 4



Lanjutan Aplikasi Pertemuan 4



ekskul Home About

Home Page

Class Name

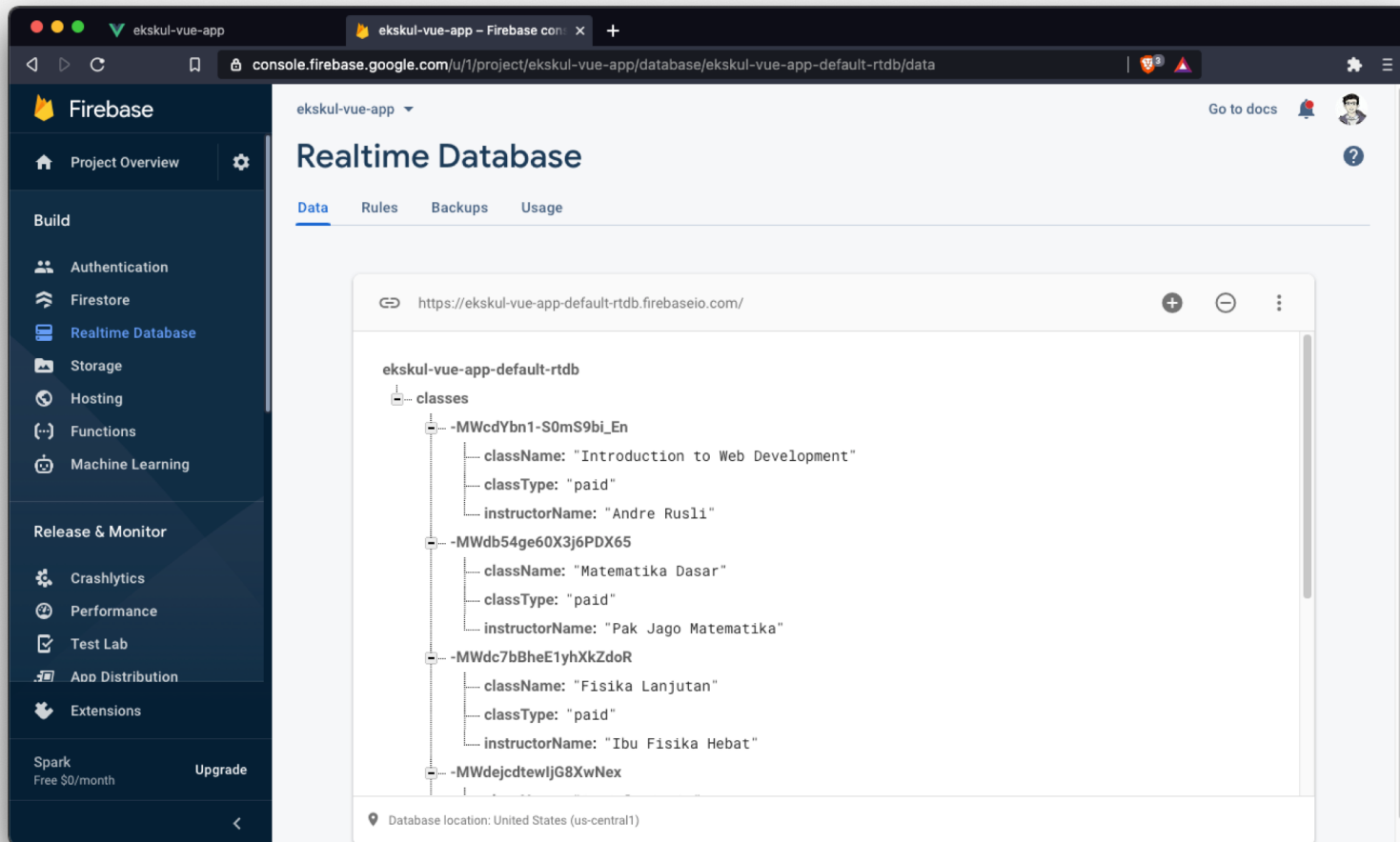
Instructor Name

Class Type

☒ Free Class ☐ Paid Class

Add

Lanjutan Aplikasi Pertemuan 4



Lanjutan Aplikasi Pertemuan 4

Buka terminal, lalu jalankan:

1. `git clone https://github.com/arusl/ekskul-vue-app.git`
2. `cd ekskul-vue-app`
3. `npm install`
4. Copy-Paste data config Firebase pada file `firebase.js`
5. `npm run serve`
6. Buka browser dan akses `http://localhost:8080/`

Menggunakan Firebase RTDB pada Vue App

```
firebase.js — ekskul-vue-app

JS firebase.js ×

src > JS firebase.js > [🔗] firebaseConfig > 🔗 storageBucket

1  import firebase from "firebase";
2
3  // Your web app's Firebase configuration
4  var firebaseConfig = {
5    apiKey: "AIzaSyA...",
6    authDomain: "ekskul-vue-app.firebaseio.com",
7    databaseURL: "https://ekskul-vue-app-default-rtdb.firebaseio.com",
8    projectId: "ekskul-vue-app",
9    storageBucket: "ekskul-vue-app.appspot.com",
10   messagingSenderId: "1018916886886",
11   appId: "1:1018916886886:web:...",
12 };
13 // Initialize Firebase
14 firebase.initializeApp(firebaseConfig);
15
16 // Get a reference to the database service
17 const fdb = firebase.database();
18
19 export { fdb };
20
```



Coding Tutorial: VueJS + Buefy + Firebase

Review: Setup, Connect, Add Data to Database

<https://firebase.google.com/docs/database/web/start>



Coding Tutorial (contd.): VueJS + Firebase

Read & Delete Data to/from Database

2/3

± 30 menit



Coding Tutorial: VueJS + Buefy + Firebase

Read, Delete, and Re-fetch Data

https://firebase.google.com/docs/database/web/read-and-write#updating_or_deleting_data



Coding Challenge: Details

3/3

± 10 menit

Challenge

- Kembangkan aplikasi Vue sesuai kebutuhan dan keinginan sendiri, lalu integrasikan dengan Firebase Realtime Database untuk penyimpanan data
- Lanjutkan aplikasi ekskul-vue-app dengan menambahkan fitur-fitur atau halaman lain. Kreasikan halaman About sesuai keinginan anda.

Kirim ke

Email address: andrerusli19@gmail.com

Subject: Ekskul Web Development – Showcase

Body: Minimal berisi *nama lengkap* pengirim, serta file *screenshot/screen recording tampilan* hasil aplikasi web atau link Google Drive

Tidak perlu mengirimkan source code.

Max. April 21, jam 5 pm WIB.



Pertemuan Berikutnya

Wrap Up
App Showcase



Thank You!

Vue Router:

- <https://router.vuejs.org/>

Firebase:

- <https://console.firebase.google.com/>
- <https://firebase.google.com/docs/database>