



# Wrap Up

Pertemuan #6

Kamis, 22 April 2021

Andre Rusli

# Hari Ini

- Review Pertemuan 5 + Tanya Jawab
- Review Keseluruhan + Tanya Jawab
- Penutup

# Target Capaian

## Casual

Mengikuti pemaparan materi dan sesi tanya jawab pada kelas online Ekskul

### Target:

- Memahami keseluruhan alur pengembangan aplikasi web
- Memahami tools-tools minimum yang dibutuhkan dalam membangun sebuah aplikasi web

## Enthusiast

Mengikuti pemaparan materi dan sesi tanya jawab pada kelas online Ekskul, lalu mempelajari dan mempraktekkan hal-hal yang dibahas lebih lanjut secara mandiri.

### Target:

- Seluruh target peserta Casual
- Mampu membangun sebuah website sederhana dengan fungsionalitas komplit dari sisi frontend, backend, dan database.

# Software Engineering

“The application of systematic, disciplined, quantifiable approach to the development, operation, and maintenance, of software; that is, the application of engineering to software.”

Communication

Planning

Modelling

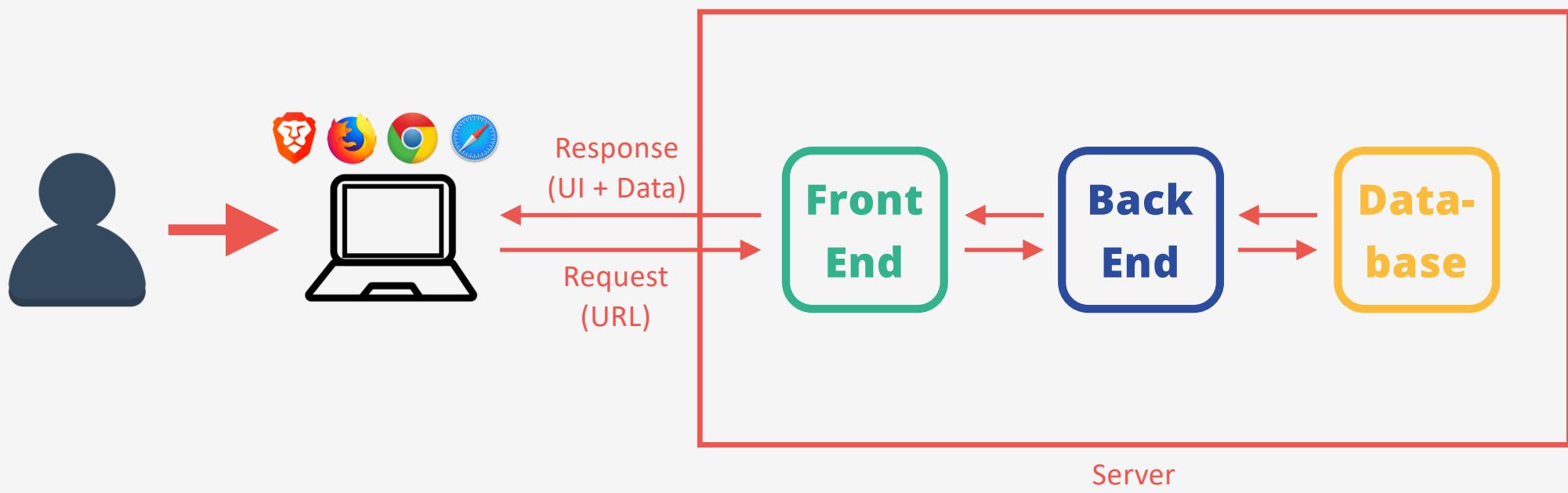
Construction

Deployment



Fokus kita di Ekskul ini.

# Web Application: **How it Works**



# **HTML, CSS, JS**

**HTML** (HyperText Markup Language) mengatur struktur dan elemen-elemen dasar sebuah website, yang berikutnya akan dipoles dan dikembangkan oleh CSS dan JavaScript.

**CSS** (Cascading Style Sheets) mengatur styling dan formatting (warna, ukuran, jarak, dsb.) elemen-elemen yang ada pada website.

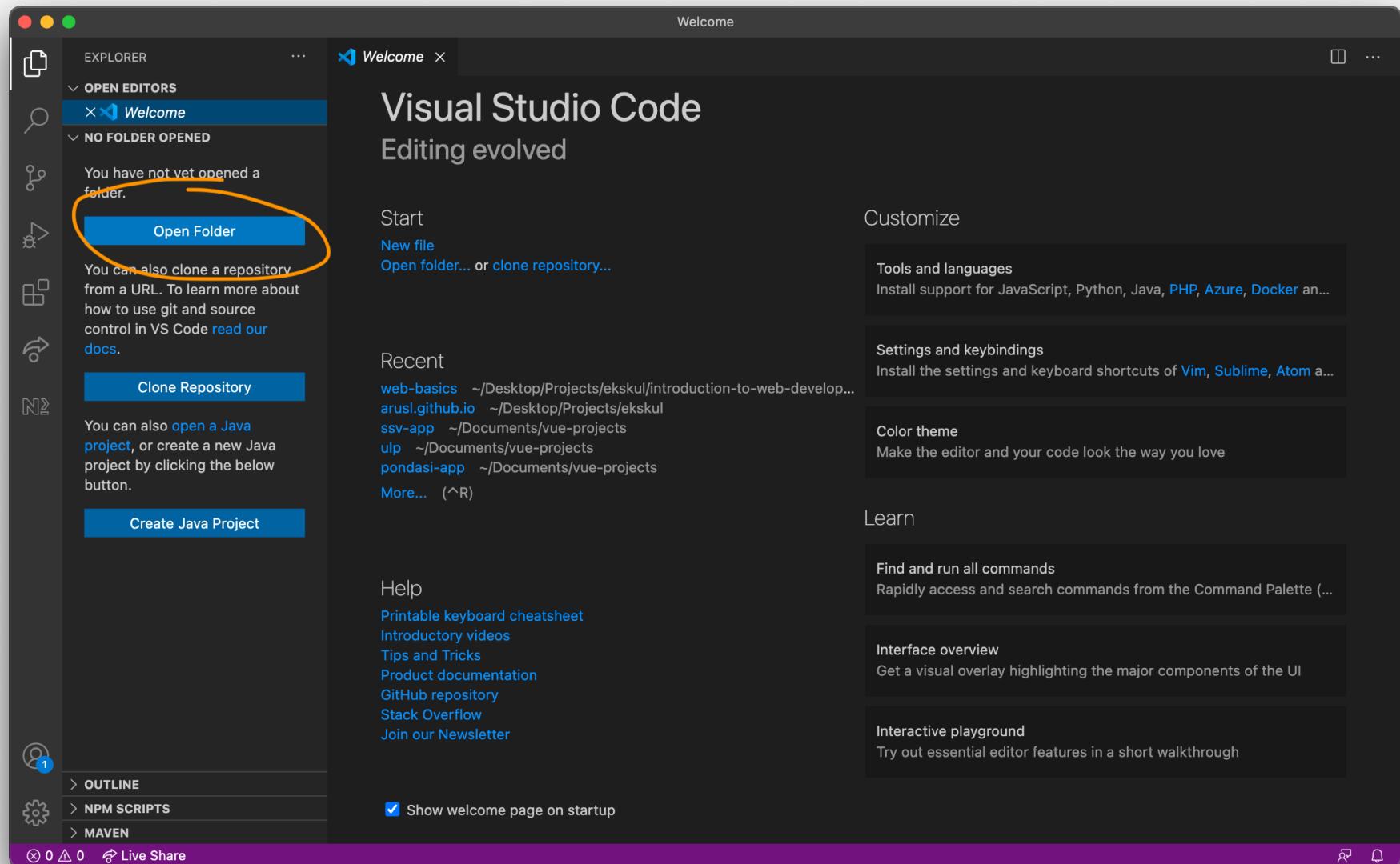
**JS** (Java Script) mengatur logika dan *behavior* elemen-elemen yang ada pada website.

# Visual Studio Code

Salah satu Text Editor yang umum digunakan untuk coding.

Download dan install VSCode:

- <https://code.visualstudio.com>



# Git and GitHub Repository

Download dan install git pada komputer:

- <https://git-scm.com/book/en/v2/Getting-Started-Installing-Git>

Buat akun pada website GitHub:

- <https://github.com>

Software development platform yang dapat digunakan untuk sharing source code, version management, dan kolaborasi antar programmer.

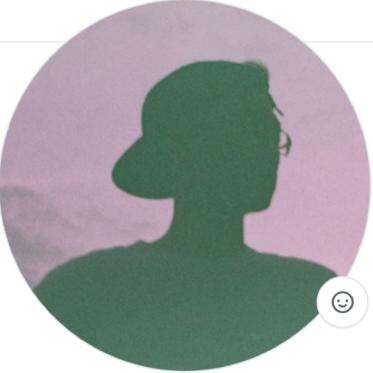
```
Last login: Wed Feb 24 11:16:14 on ttys000
The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
(base) andreRs-MacBook-Pro:~ andrer$ git --version
git version 2.24.3 (Apple Git-128)
(base) andreRs-MacBook-Pro:~ andrer$
```

arosl (Andre) x +

github.com/arosl

Search or jump to... / Pull requests Issues Marketplace Explore

Overview Repositories 16 Projects Packages



Andre  
arosl

Javascript for Web and Mobile App Development. Python for Machine Learning and Natural Language Processing.

Edit profile

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Tokyo, Japan

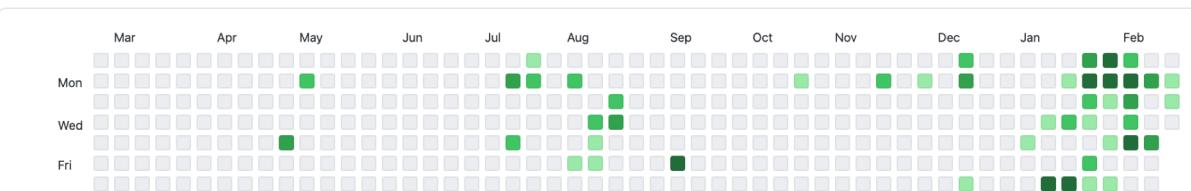
Popular repositories

- introduction-to-web-development**  
CSS 2 stars
- arosl.github.io**  
CSS
- ulp**  
A web app for assisting asset management in universities.  
Vue

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121 contributions in the last year

Contribution settings ▾



Learn how we count contributions.

Less Tip More

Contribution activity

2021

# **VueJS + Buefy**

<https://vuejs.org/>

<https://buefy.org/>

VueJS untuk kontrol behavior aplikasi, Buefy sebagai penyedia komponen user interface (button, grid system, navigation bar, dsb.)

# 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",  
    },  
}
```

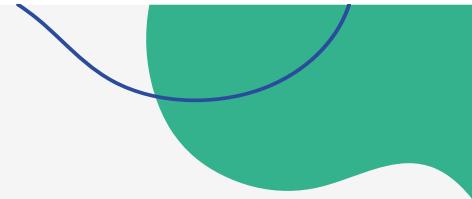


# Firebase Realtime Database

```
ekskul-vue-app-default-rtbd
  ...
  classes
    ...
    -MWcdYbn1-S0mS9bi_En
      ...
      className: "Introduction to Web Development"
      classType: "paid"
      instructorName: "Andre Rusli"
```

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

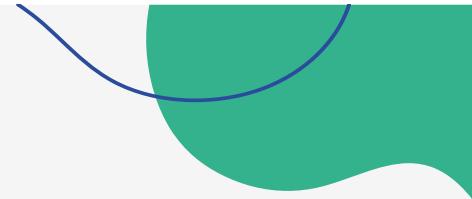
<https://firebase.google.com/docs/database>



Coding Tutorial: VueJS + Buefy + Firebase

*Setup, Connect, Add Data to Database*

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



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



The screenshot shows a web browser window with a dark-themed user interface. The title bar includes the application name "ekskul-vue-app" and the Firebase console tab. The address bar displays "localhost:8080". The main content area is titled "Home Page".

**Form Fields:**

- Class Name:** An input field.
- Instructor Name:** An input field.
- Class Type:** A radio button group with two options: "Free Class" (selected) and "Paid Class".

**Action Button:** A purple "Add" button.

**List of Classes:**

- Introduction to Web Development:** Listed as a class entry. Details: Instructor: Andre Rusli (free). Includes a red-bordered "Delete" button.
- Budi Daya Ikan Cupang:** Listed as a class entry.

# Showcase



# Andre Rusli

<http://linkedin.com/in/andre-rusli-2a401875/>

Asli Bogor

S1 Universitas Multimedia Nusantara

S2 Tokyo Denki University

S3 Tokyo Denki University (**ongoing**)

Bidang Ilmu: Software Engineering, Machine Learning, Natural Language Processing

2x Japan MEXT Scholarship Awardee

Software Developer

- Project Manager
- Frontend Web Engineer
- Hybrid Mobile App Engineer

Dosen tetap di UMN (2017-2020)

- Dosen Prodi Informatika
- Kepala Lab. Software Engineering
- Koordinator Penelitian Fakultas



# Thank You!

