

1

PEMROGRAMAN WEB

TIM PENGAMPU PROGWEB



01

Intro Web





WWW & Internet

[]

1. The Internet is a **global network of networks** that enables computers of all kinds to directly and transparently communicate and share services throughout the world
2. WWW is a **service** that operates **over the internet**

{ }

{((({>> }))<<) }

- []

WWW

{ }

>>

The concept of the WWW combines 4 ideas:

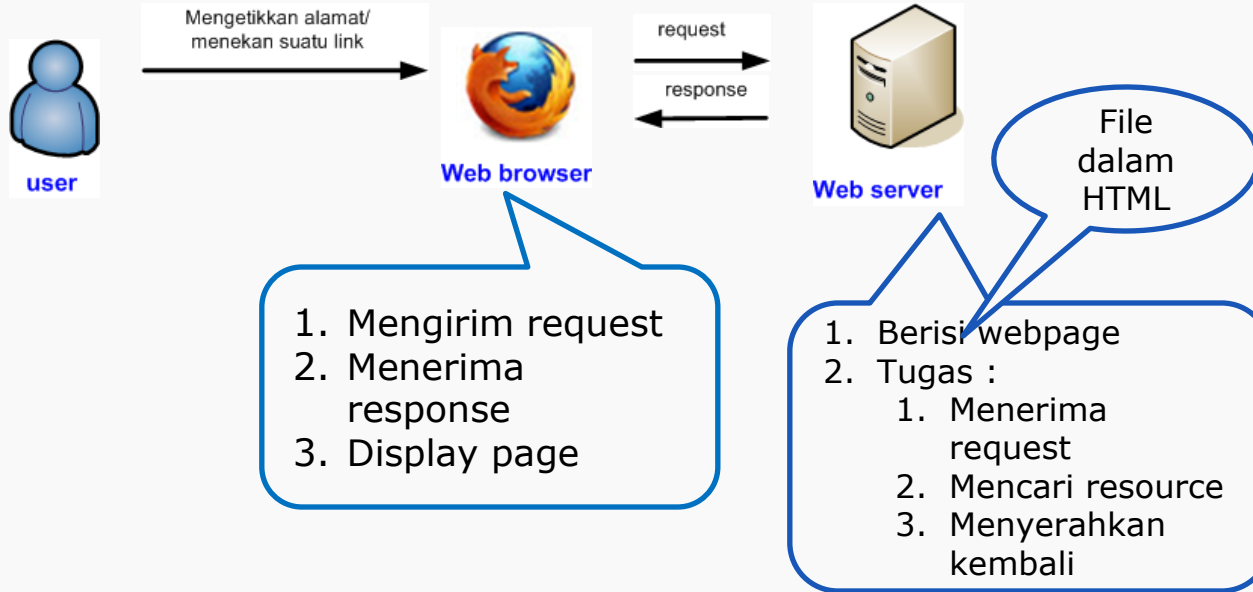
1. hypertext
2. resource identifiers (URI, URL)
3. client-server model of computing (web servers/browsers)
4. markup language (HTML)



<<

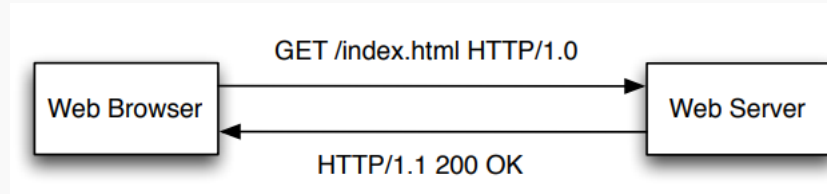
[]

[]

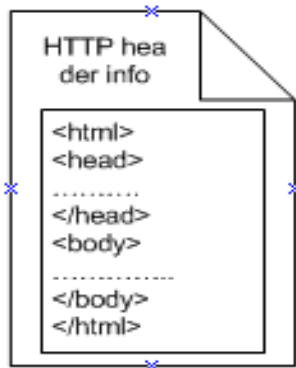
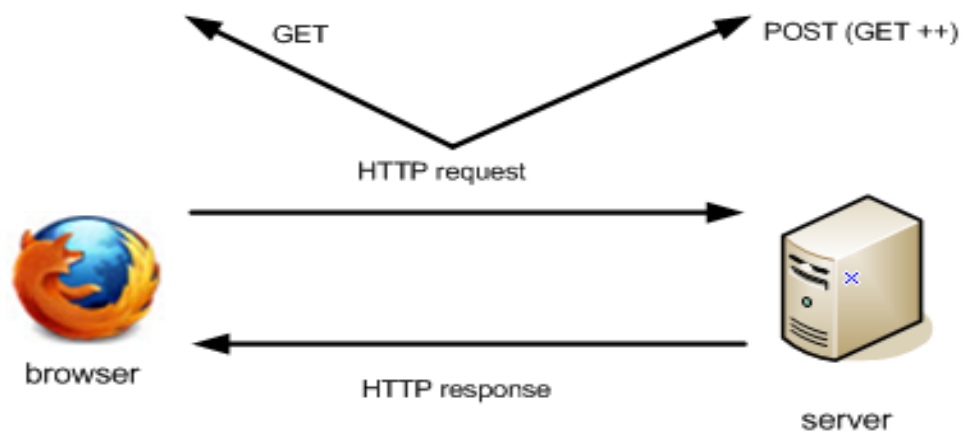


Web server

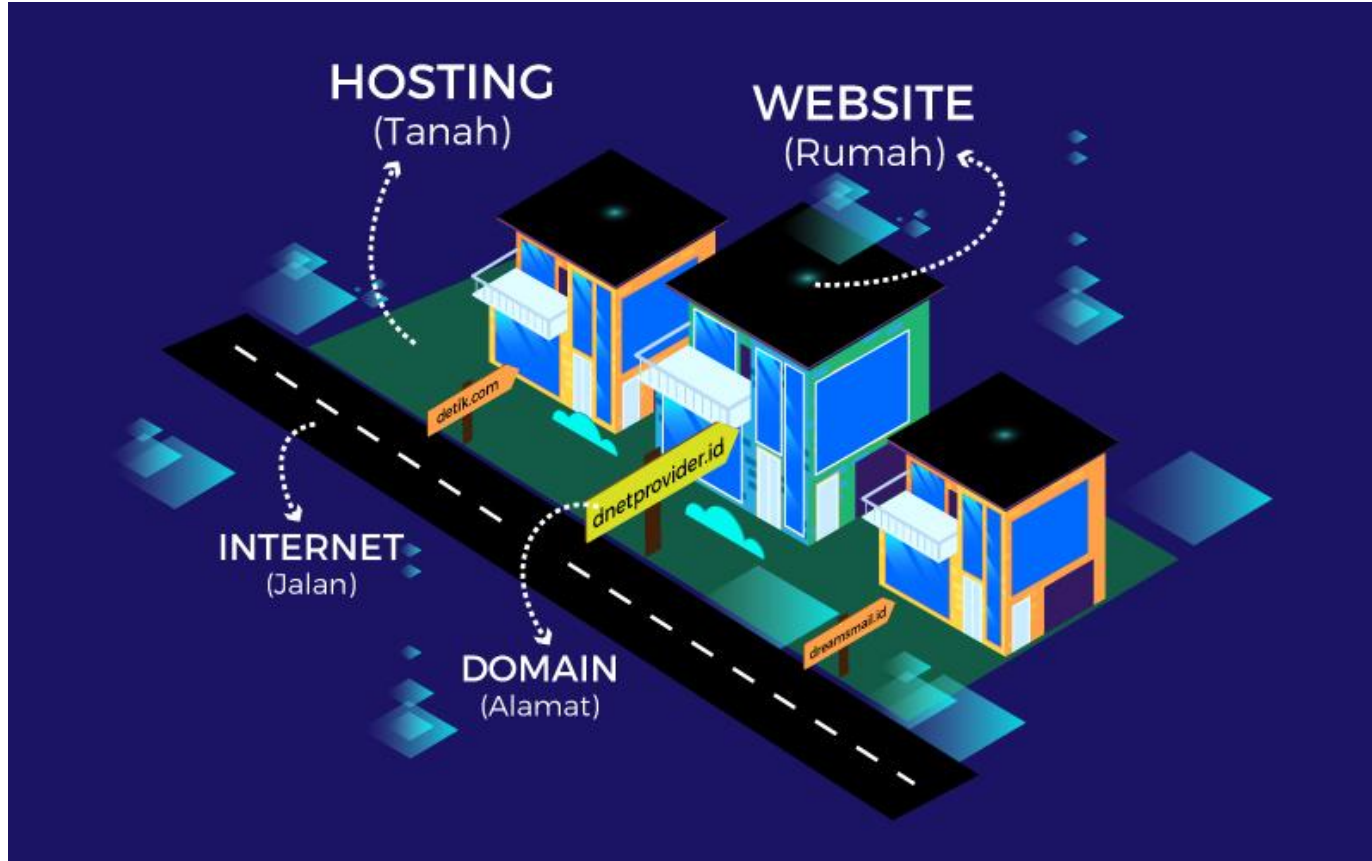
- A web server is the machine and the process serving content
- The web server is responsible for:
 1. accepting requests for content described by the url
 2. checking whether access is permitted and requesting authentication if necessary
 3. sending (or serving) the content back to the browser
- The most popular web server software now is:
 1. Apache is an open source web server (Unix/Mac OS X/Win)
 2. Microsoft IIS is the main Windows web server (Win only)
- Each web server interacts with the programs differently:
 1. Apache uses the Common Gateway Interface (cgi)
 2. Microsoft IIS uses Active Server Pages (asp)



- HyperText Transfer Protocol (http) is the standard protocol for transferring web content
 1. The server listens on port 80 waiting for connections
 2. The web browser connects to the server, and sends a request
 3. The server responds with an error code or the web content



Analogi Web

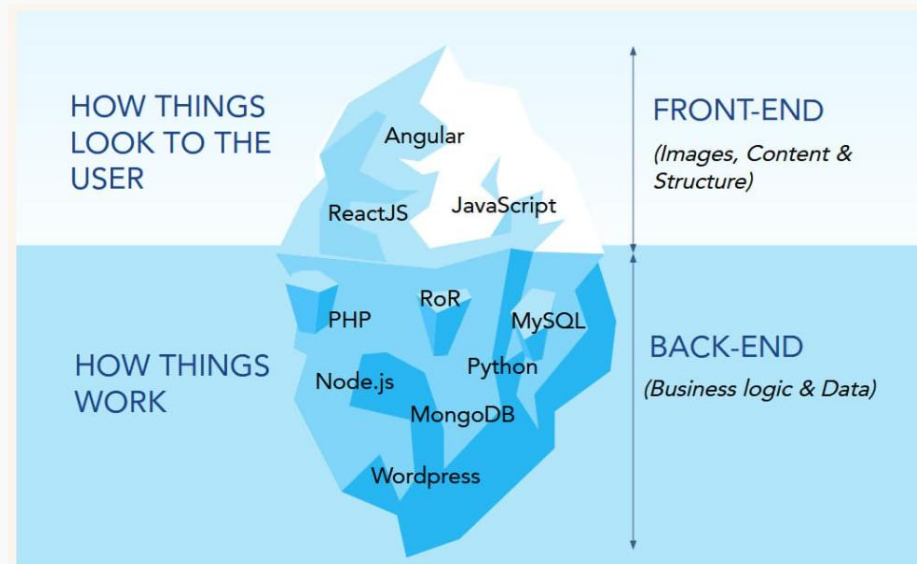




02 Intro BE/FE

{ }

FE VS BE



<https://devbreeder.wordpress.com/2022/04/30/backend-frontend-or-full-stack/>

This is the beginner friendly version of the Frontend roadmap. Make sure to

[Visit the Detailed Version](#)

Find the detailed version of this roadmap along with other similar roadmaps

roadmap.sh

Front-end

Important Tip

Make sure to build as many projects as possible for each node of the roadmap.

You should be able to find an intern or Junior Frontend Developer join after learning these three.

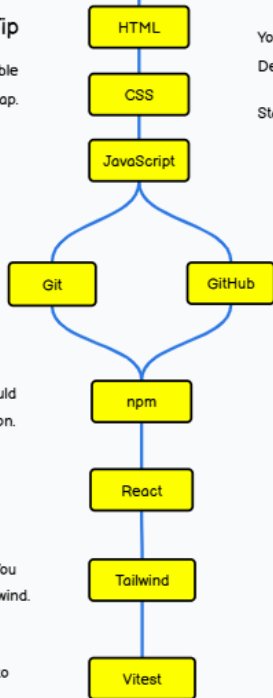
Start applying for jobs and keep learning.

Learn about Version Control Systems & start using Git for your future projects.

Learn to use npm package manager. This should be a quick one. Just get the basics and move on.

There are several CSS frameworks available. You can pick any. I would recommend learning Tailwind.

Learn about different Testing types and how to test your frontend using something like Vitest.

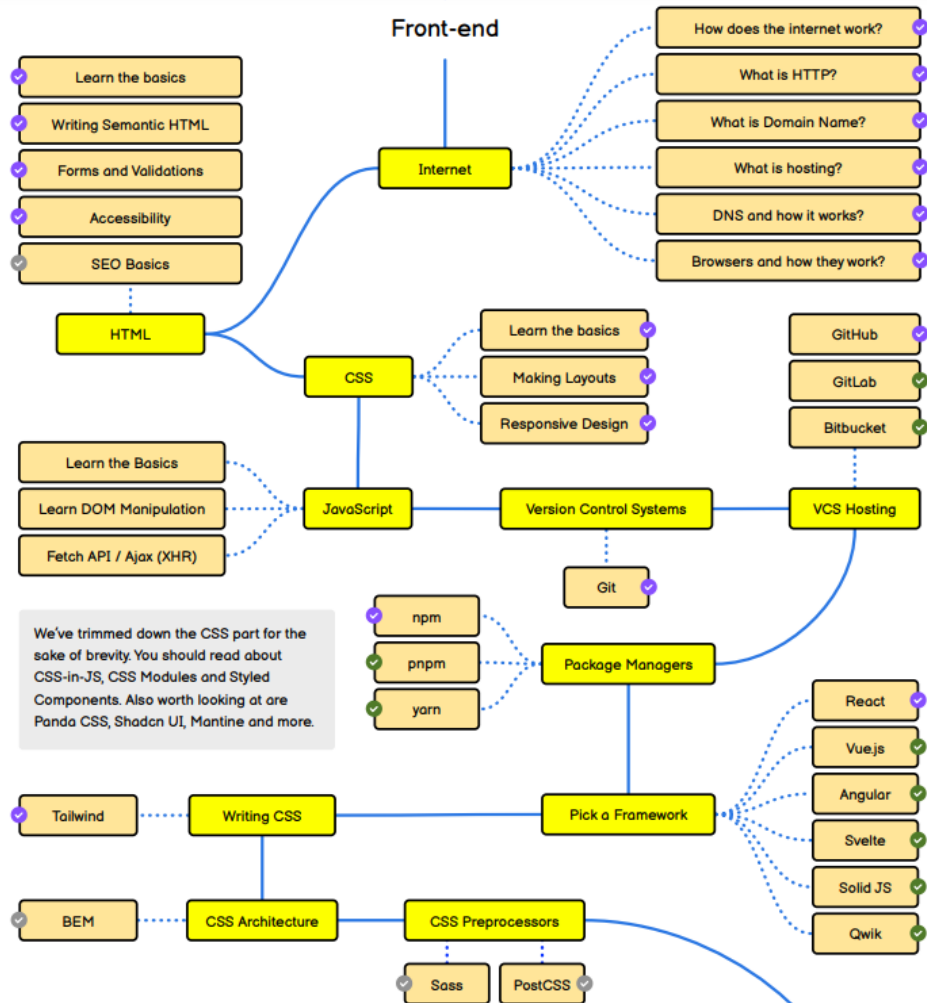


Create your GitHub Profile and publish the projects you have developed so far to GitHub.

Create some project with React. Make sure to install some external npm packages and include API calls to fetch some external data.

Roadmap FE beginner

<https://roadmap.sh/frontend?r=frontend-beginner>



<https://roadmap.sh/frontend?fl=1>

Sebagian akan dipelajari di perkuliahan, sisanya, silakan dieksplor

- ✓ Personal Recommendation / Opinion
- ✓ Alternative Option / Pick this or purple
- ✓ Order not strict / Learn anytime

Visit the Detailed Version

Find the detailed version of this roadmap along with other similar roadmaps

roadmap.sh

Roadmap BE beginner

If you are a frontend developer jumping into backend development, I would recommend picking JavaScript and learning Node.js. Alternatively, Go and Python are also good options.

Learn the language and build some CLI apps to practice your knowledge.

Create your GitHub profile and start using GitHub for your future projects.

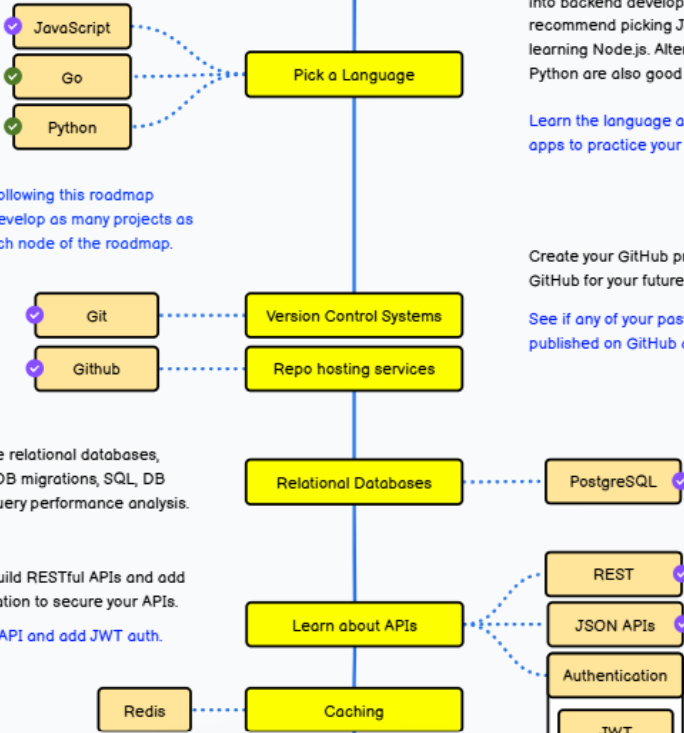
See if any of your past projects can be published on GitHub as OpenSource.

When you are following this roadmap make sure to develop as many projects as possible for each node of the roadmap.

Learn about the relational databases, normalization, DB migrations, SQL, DB Indexes and Query performance analysis.

Learn how to build RESTful APIs and add JWT authentication to secure your APIs.

Develop some API and add JWT auth.

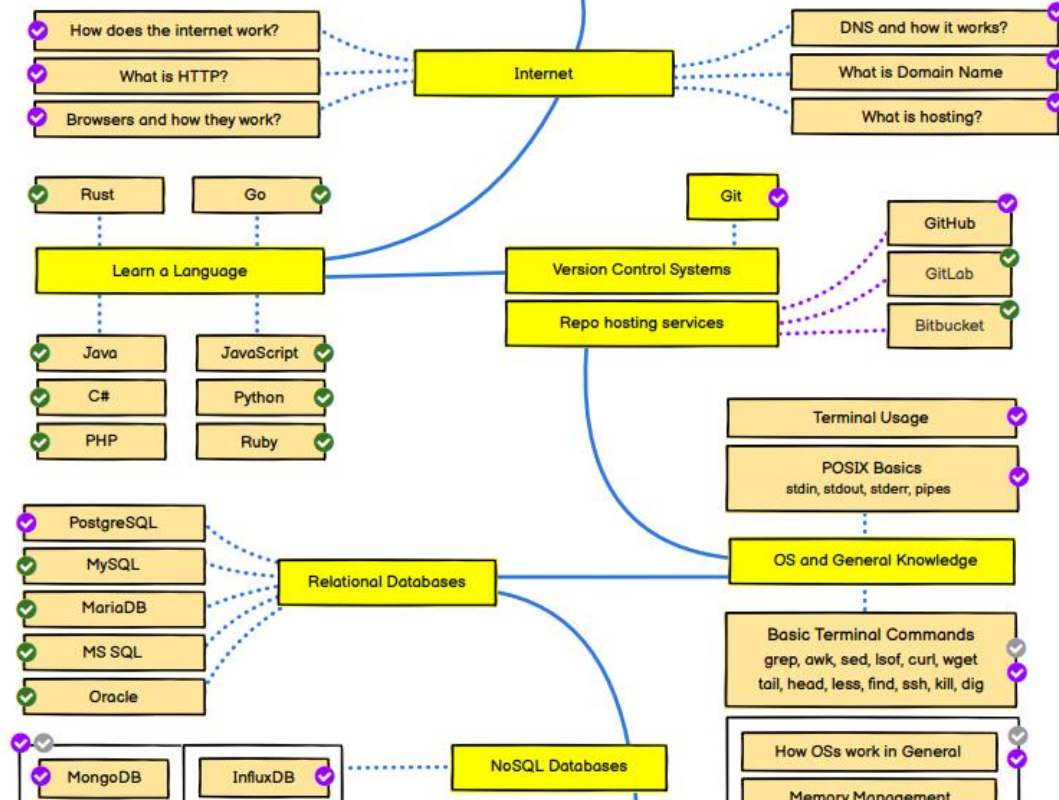


- ✓ Personal Recommendation / Opinion
- ✓ Alternative Option - Pick this or purple
- ✓ Order in roadmap not strict (Learn anytime)
- I wouldn't recommend

Find the detailed version of this roadmap along with resources and other roadmaps

<https://roadmap.sh>

Backend



<https://roadmap.sh/frontend?fl=1>

Sebagian akan dipelajari di perkuliahan, sisanya, silakan dieksplor

Analogi Komponen Website

HTML vs CSS vs Javascript



Tugas

{ }

- Bikin halaman web biodata pribadi minimal menggunakan html dan css >
Output nya berupa video speed coding

[]

Thanks!

Do you have any questions?



CREDITS: This presentation template was created by [Slidesgo](#), and includes icons by [Flaticon](#), and infographics & images by [Freepik](#)

Please keep this slide for attribution



{({({ >> })) << }



(({ >> 0 | □ □ □ }))

```
((: 00 - =>> } )  
{ (<1 00 1 000 >> )}  
((: 0)>"< )  
<01 001} +100 0}>  
((: 0)>"< )  
{ (<1 00 1 000 >> )}
```

