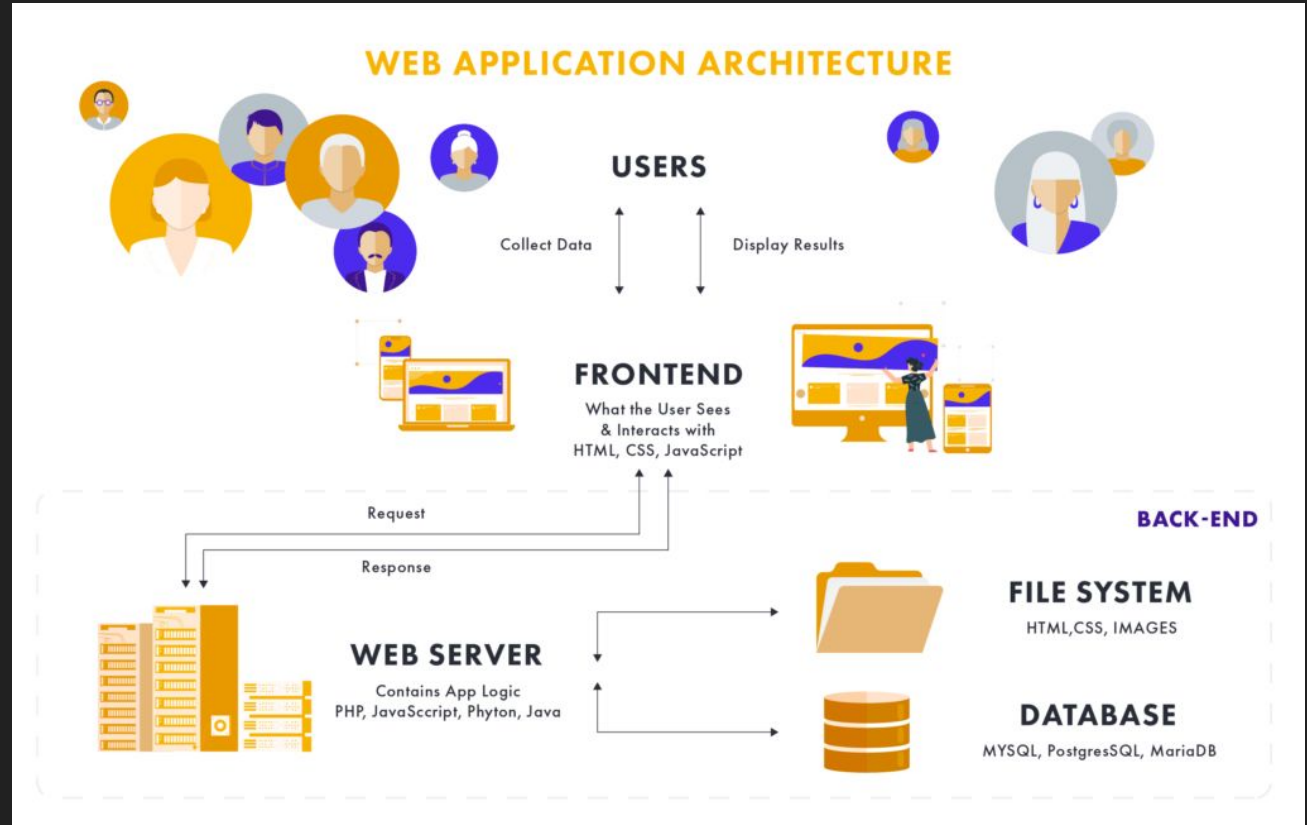# Pengembangan Aplikasi Web: Frontend

Praktisi Mengajar - Politeknik Hasnur
me@adityaputra.com

Outline

- Web architecture review: frontend, backend
- Frontend: general overview
  - RWD (responsive web design) and mobile-first design
- Frontend stack
  - HTML
  - CSS
  - Javascript

Web architecture overview

WEB APPLICATION ARCHITECTURE

USERS

Collect Data   Display Results

FRONTEND
What the User Sees
& Interacts with
HTML, CSS, JavaScript

Request

Response

BACK-END

WEB SERVER
Contains App Logic
PHP, JavaSccript, Phyton, Java

FILE SYSTEM
HTML,CSS, IMAGES

DATABASE
MYSQL, PostgresSQL, MariaDB

Frontend: general overview

- HTML is the main component that allows us to define the <u>website's structure</u>
- CSS is something we use to <u>define styles</u> for the website
- Javascript is a programming language that is often being used for <u>controlling website's interaction</u> both to the user and the server

https://jsfiddle.net/750L6pa8/

Frontend stack: HTML

- HTML stands for Hyper Text Markup Language
- HTML is the standard markup language for creating Web pages
- HTML describes the structure of a Web page
- HTML consists of a series of elements
- HTML elements tell the browser how to display the content
- HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.
- HTML is **NOT** a programming language

Adapted from: https://www.w3schools.com/html/html_intro.asp

HTML example

Demo - vscode

Demo - w3schools

Assignment: HTML

- Buat file index.html dengan hasil akhir seperti pada screenshot pada slide berikutnya. Tuliskan ringkasan materi (100 kata) di dalam file tersebut.
- Pengumpulan file via github anda masing-masing:
  - Folder: pemrograman-web/tree/main/assignments/3-frontend
  - File name: index.html
  - Contoh: https://github.com/adityaputra/pemrograman-web/tree/main/assignments/3-frontend

Tugas 3: frontend - HTML

NAMA ANDA: Ringkasan materi 100 kata

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Praesent gravida, tortor vel mollis luctus, nisl nibh blandit ipsum, luctus hendrerit neque lectus ut ante. Duis non risus tortor. Nunc volutpat blandit dolor nec ullamcorper. Vestibulum quis efficitur magna. Nulla facilisi. In magna ex, blandit tristique semper a, scelerisque in sapien. Integer efficitur, neque at varius malesuada, ligula est congue ligula, sit amet pharetra eros augue ac libero. Praesent facilisis pharetra nisi ut ullamcorper. Nam ultricies velit est, a faucibus nunc consequat quis. Donec consectetur elit id mi egestas, vel scelerisque tellus feugiat. Suspendisse vulputate elementum nibh a ullamcorper. Sed accumsan.