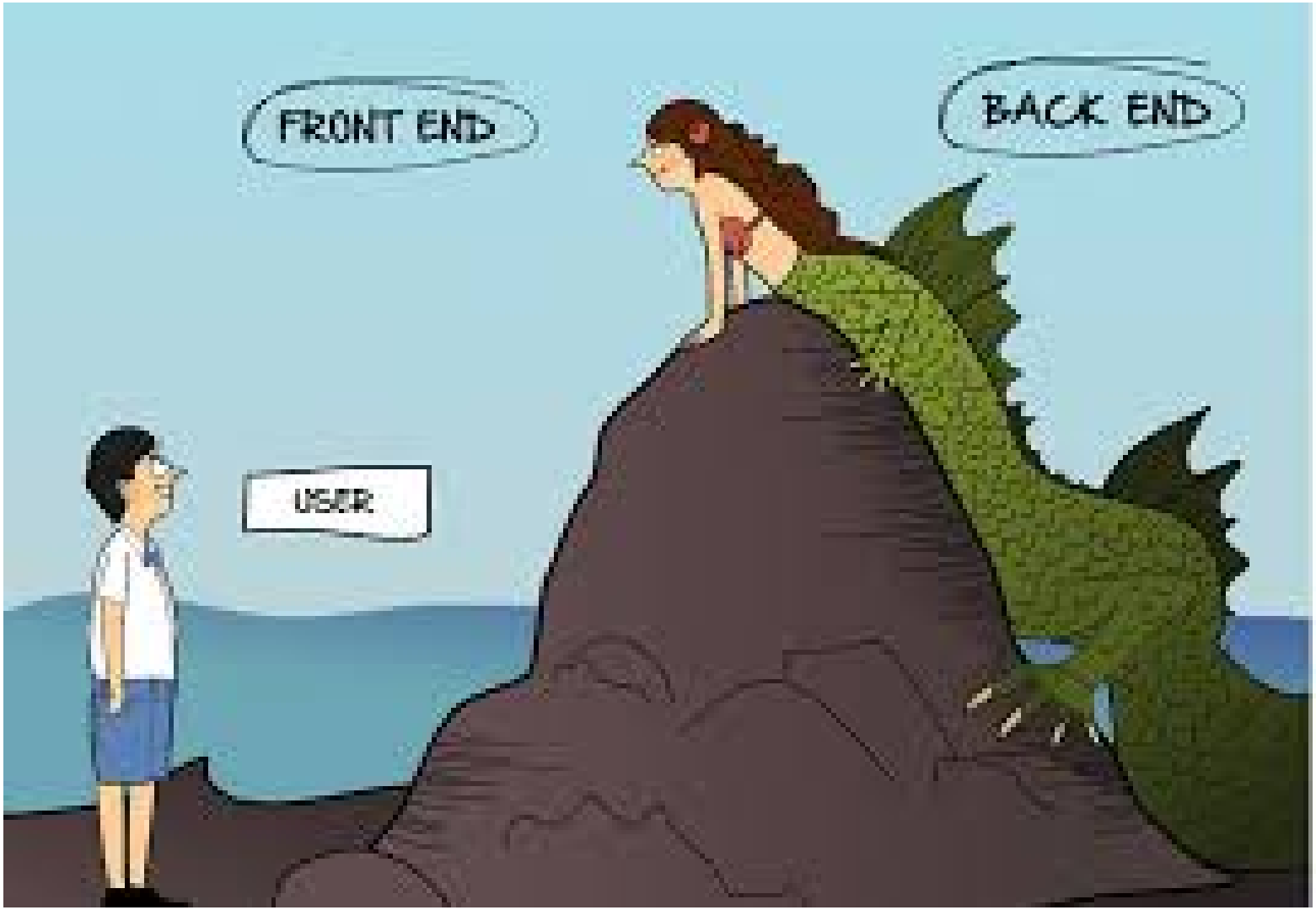
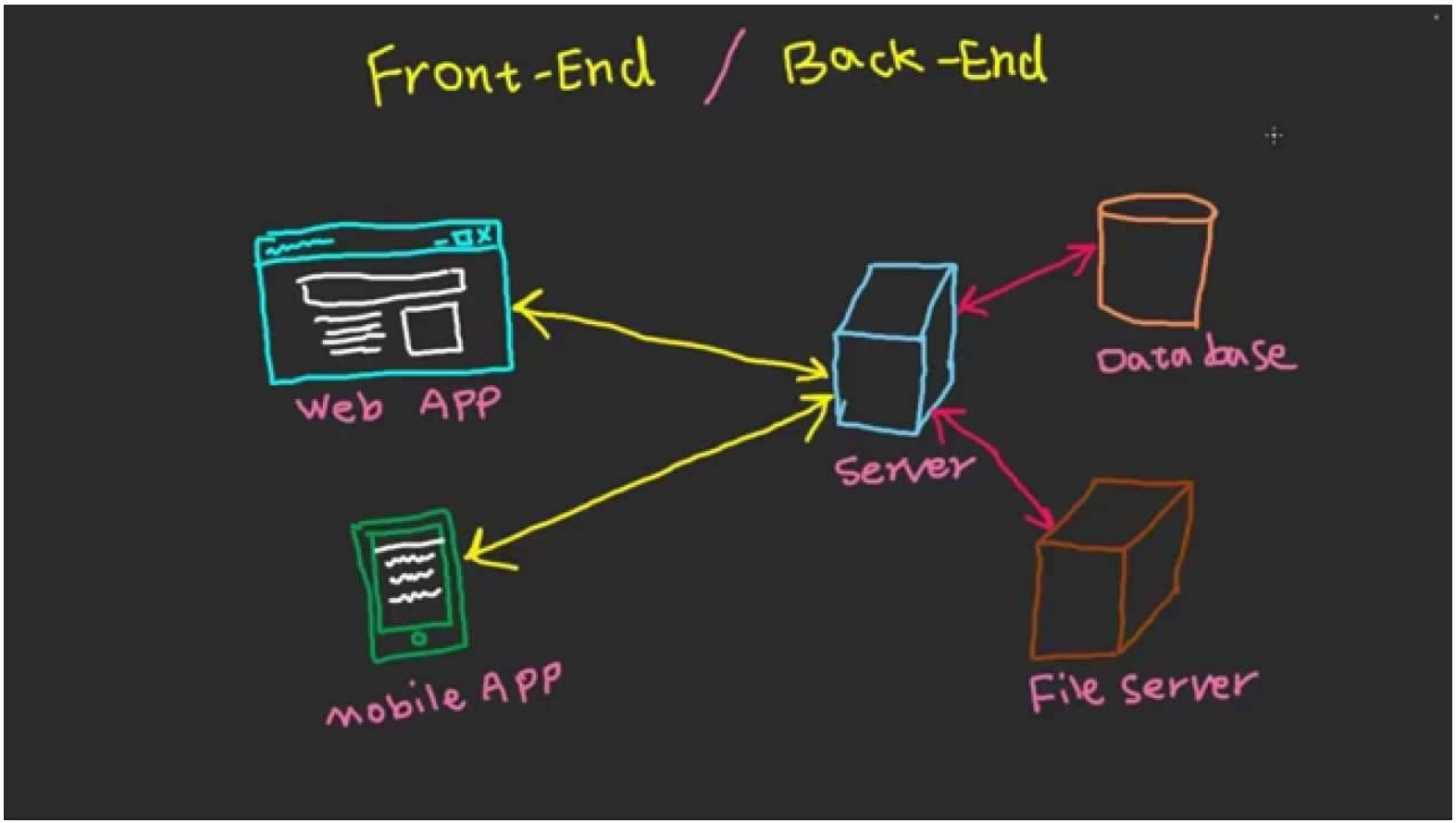
AGENDA

- → Front-end
- → Back-end
- → Full-stack

OVERVIEW



OVERVIEW


Front-End / Back-End
Web App
Server
Database
Mobile App
File Server

FRONT-END

→ also called *client-side*

→ the front-end of a web application is everything the user sees and interacts with

Structure

Style

Interactivity

BACK-END

- → sometimes also called *server-side*
- → the back-end of a web application is the engine behind a website
- → it processes requests from the front-end, and holds data for the app

Server/API

Database (remote/local)

DATA TRANSFER

- → The front-end receives data *from* the back-end and uses it to show the information *to* the user
- → The front-end sends data *from* the user and sends it *to* the back-end to update it
- → If the front-end requests data, the server (back-end) will search the DB to find the relevant information
- → If the front-end wants to update data, the server will update the DB as needed

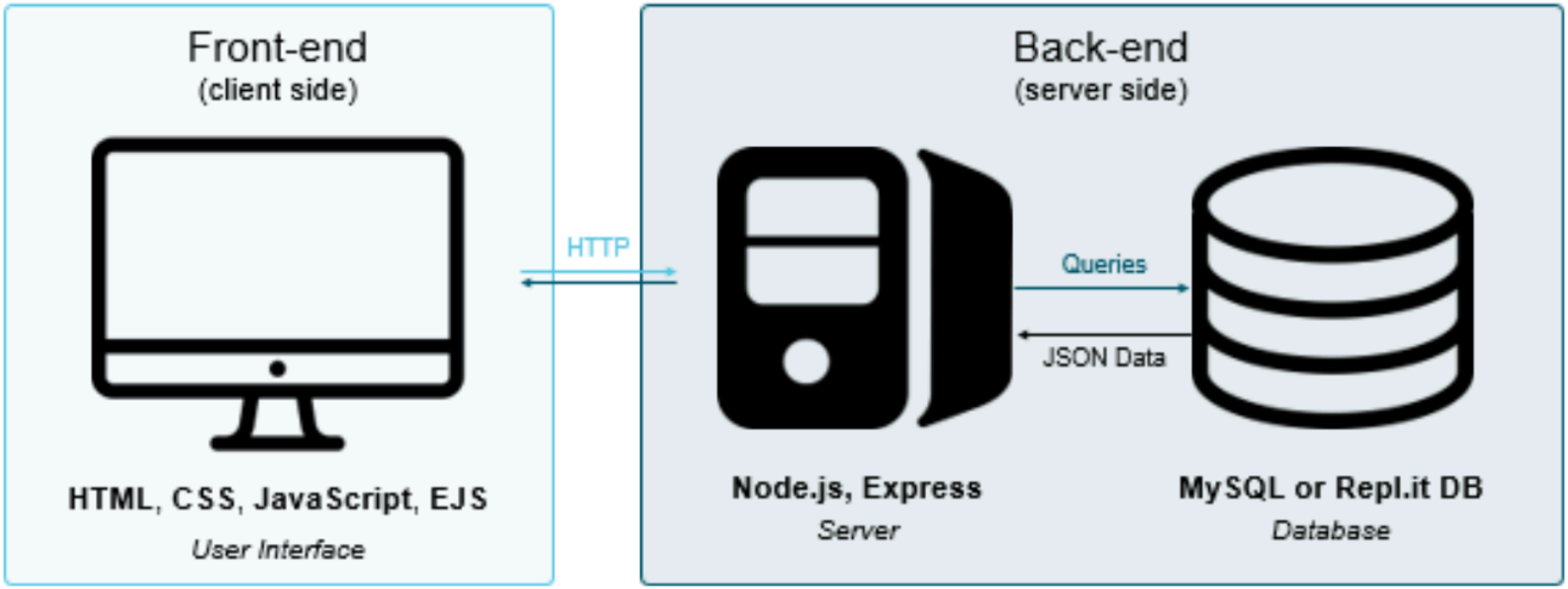
FULL-STACK EVERYTHING

For full-stack devlopment a developer needs to understand the full picture of the application

All parts of the stack have to be worked out, those parts might use different languages and/or frameworks

HTML	EJS (Templating Engine)
CSS	HTTP (Communication Protocol)
Python	Flask (Web Framework to provide an API and/or web serve
Javascript	Node.js and Express (Web Framework to provide an API an
Server	MySQL and AWS RDS
Database	Queries and JSON data

TYPICAL FULLSTACK WEB ARCHITECTURE



(in CIS 3368 we will use a differnt architecture)