**Brief Intro to World Wide Web**

**How the web works**

* A computer known as a server hosts information and makes it available over the internet
* A web browser makes a request to the server, which responds by delivering the webpage’s information and all the instructions for how to display it.
* The browser interprets these instructions and displays the webpage with all the styling and dynamic code.

A screenshot of a computer

Description automatically generated

**How a webserver works**

* A webserver houses the code for a website and a program that delivers the code to computers when they request it.

A close up of a logo

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* This ‘web services stack’ has four software components:

1. Operating System
2. HTTP Server
3. Database
4. Scripting Language

* i.e. LAMP, MEAN, and MERN

1. LAMP – Linux OS, Apache HTTP server, MySQL database, PHP
2. MEAN – MongoDB, Express.js, AngularJS, Node.js
3. MERN – MongoDB, Express.js, React, Node.js

A screenshot of a cell phone

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* Web development ‘full stack’ has two components:

1. Front End: the visible parts of a website (processed ‘client side’ by the browser)
2. Back End: the behind the scenes infrastructure and databases (these parts live on the server)

* A full stack developer can program both sides
* When information is needed from a database, the front end of a website will make a request to the server. The server will retrieve the requested information from the DB and return it to the browser so the information can be displayed.

A close up of a sign

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