Welcome

Introduction to the Web and it's technologies

AGENDA

Agenda

- Discuss basic Web terminologies
- Overview of the Internet
- Discuss the Internet vs the Web
- A Detail discussion of the Web Architecture
    - HTTP/HTTPS
- Tools
- Basic Web Technologies

QUIZ TIME

WAIT. HOLD UP. HOLD UP.

WHAT IS A WEB PAGE?

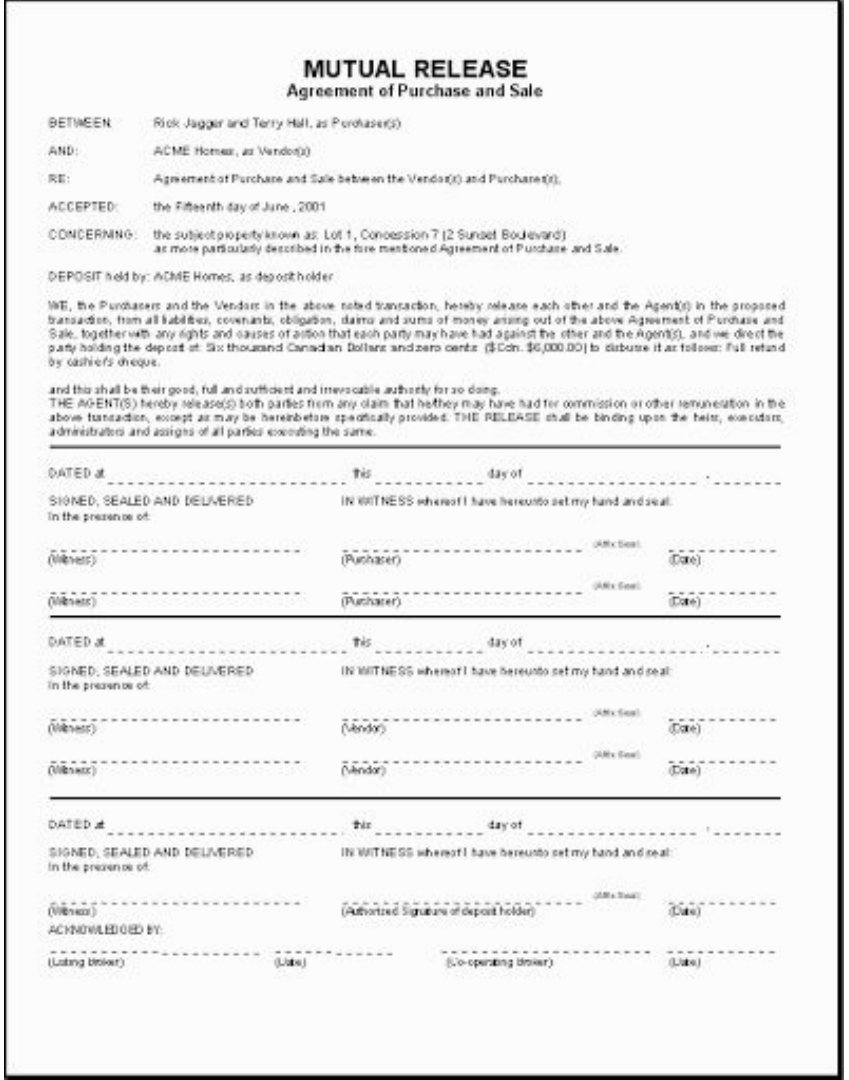
WHAT IS A WEB SITE?

ANSWER SHEET

- A Web page is **electronic document** that is access via a web browser and is typically used to present information to persons who are viewing it.

- A Website is a collection of **related** web pages.

A PHYSICAL DOCUMENT



MUTUAL RELEASE
Agreement of Purchase and Sale

BETWEEN: Rick Jagger and Terry Hall, as Purchaser(s)

AND: ACME Homes, as Vendor(s)

RE: Agreement of Purchase and Sale between the Vendor(s) and Purchaser(s),

ACCEPTED: the Fifteenth day of June , 2001

CONCERNING: the subject property known as: Lot 1, Concession 7 (2 Sunset Boulevard)
as more particularly described in the fore mentioned Agreement of Purchase and Sale.

DEPOSIT held by: ACME Homes, as deposit holder

WE, the Purchasers and the Vendors in the above noted transaction, hereby release each other and the Agent(s) in the proposed transaction, from all liabilities, covenants, obligation, claims and sums of money arising out of the above Agreement of Purchase and Sale, together with any rights and causes of action that each party may have had against the other and the Agent(s), and we direct the party holding the deposit of: Six thousand Canadian Dollars and zero cents ($Cdn. $6,000.00) to disburse it as follows: Full refund by cashier's cheque.

and this shall be their good, full and sufficient and irrevocable authority for so doing.
THE AGENT(S) hereby release(s) both parties from any claim that he/they may have had for commission or other remuneration in the above transaction, except as may be hereinbefore specifically provided. THE RELEASE shall be binding upon the heirs, executors, administrators and assigns of all parties executing the same.

DATED at _____ this _____ day of _____ .

SIGNED, SEALED AND DELIVERED
In the presence of:

IN WITNESS whereof I have hereunto set my hand and seal:

_____ _____ (Affix Seal) _____
(Witness) (Purchaser) (Date)

_____ _____ (Affix Seal) _____
(Witness) (Purchaser) (Date)

DATED at _____ this _____ day of _____ .

SIGNED, SEALED AND DELIVERED
In the presence of:

IN WITNESS whereof I have hereunto set my hand and seal:

_____ _____ (Affix Seal) _____
(Witness) (Vendor) (Date)

_____ _____ (Affix Seal) _____
(Witness) (Vendor) (Date)

DATED at _____ this _____ day of _____ .

SIGNED, SEALED AND DELIVERED
In the presence of:

IN WITNESS whereof I have hereunto set my hand and seal:

_____ _____ (Affix Seal) _____
(Witness) (Authorized Signature of deposit holder) (Date)

ACKNOWLEDGED BY:

_____ _____ _____ _____
(Listing broker) (Date) (Co-operating broker) (Date)

Who We Are

At Snap, we believe that reinventing the camera represents our greatest opportunity to improve the way people live and communicate. We contribute to human progress by empowering people to express themselves, live in the moment, learn about the world, and have fun together.

Our Brands

WHAT IS A WEB APP?

WHAT DOES URL MEAN?

ANSWER SHEET

- A web app is a special type of website that performs functions and tasks. Or, a web app is an app that is accessible via a browser.

- URL - Uniform Resource Locator - Web Address . Example :

  https://www.facebook.com

“

WHAT IS A BROWSER AND WHAT IS ITS SIGNIFICANCE IN THE CONTEXT OF WEB?

”

ANSWER SHEET

- A browser is a program that allows you to request a web page from a web server and then displays the web page in the screen.

POPULAR BROWSERS

SUMMARY

- **A web page** is an electronic document. They are files that are stored on a computer that runs software called a web server and retrieve via a program called a browser.
- A **website** is a collection of related web pages.
- A **web app** is a special type of website that performs specific tasks.
- A **web browser** or a **browser** is a program that retrieves web pages and other web resources from a web server.
- **Uniform Resource Locator(URL)** is a web address. It is a reference to a web resource that specifies its location on a computer network . **Example : https://www.facebook.com**

GOOD SO FAR!

TYPES OF WEBSITES AND WEB APPS

TYPES OF WEBSITES AND WEB APPS

Dynamic Websites
Server Side Web Applications

Static Websites
Client -Side Web Applications

WAIT, THERE ARE MORE QUESTIONS

“

IS THE INTERNET AND THE WEB THE SAME?

”

No

INTERNET

The Internet

- **A global network of computers.**

- Each computer on the internet has an **Internet Protocol address(IP address)**

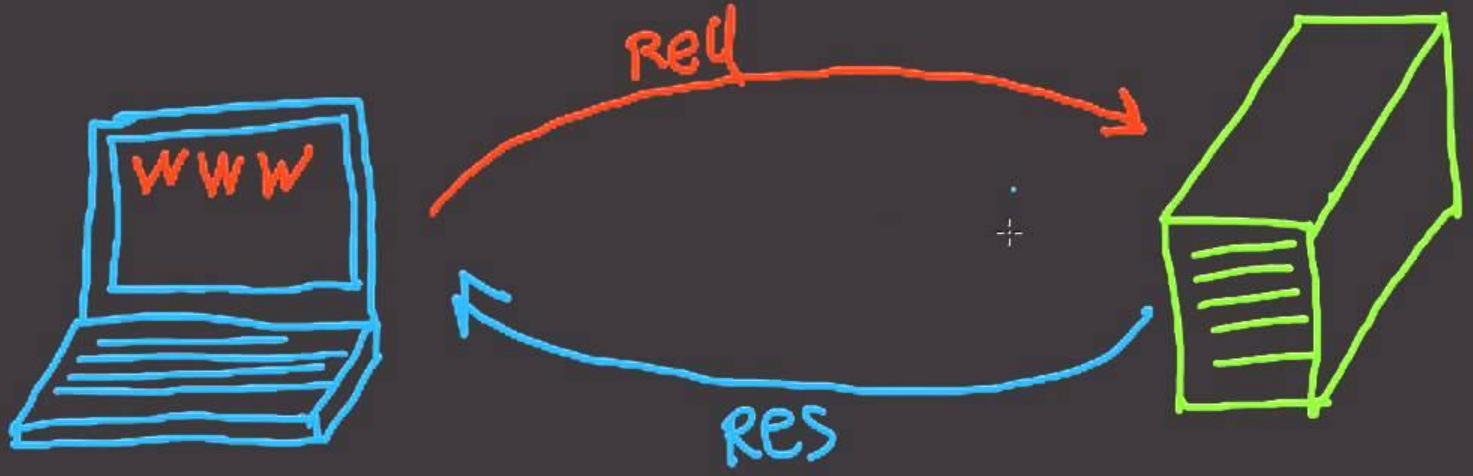
1. **Would you be shock if I told you that the Web functions and “behaves” very similar to what is happening with the two men on the right?**

THE WEB

OR

THE WORLD WIDE WEB

Client-Server



The Web or World Wide Web (WWW)

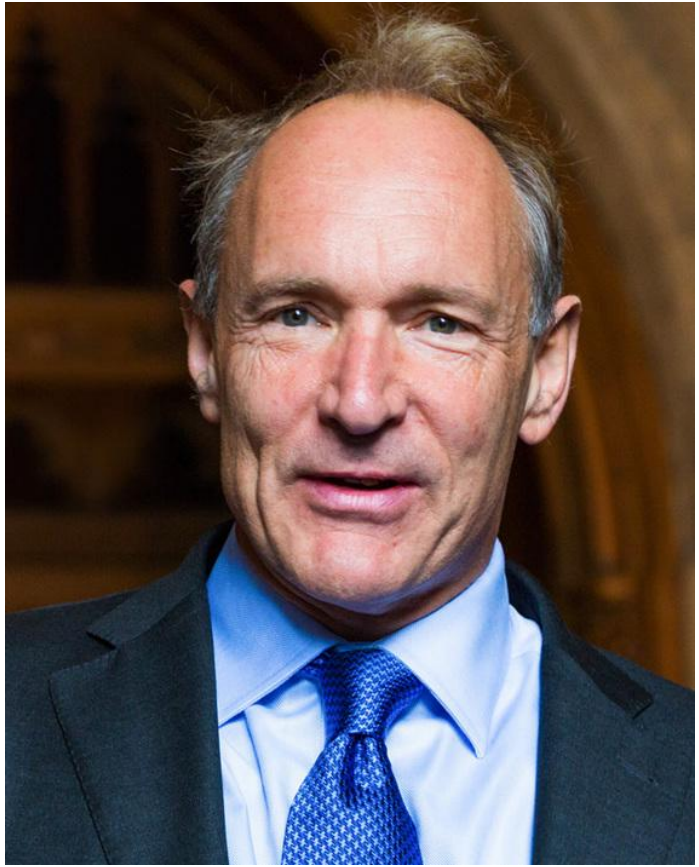
- Is a system or a “digital space” that is composed of billions of connected electronic documents that are stored on computers that run web-server software and that can be viewed by applications called web browsers.
- Resources of the Web are identified via a URL and are accessible over the Internet.

More on the Web

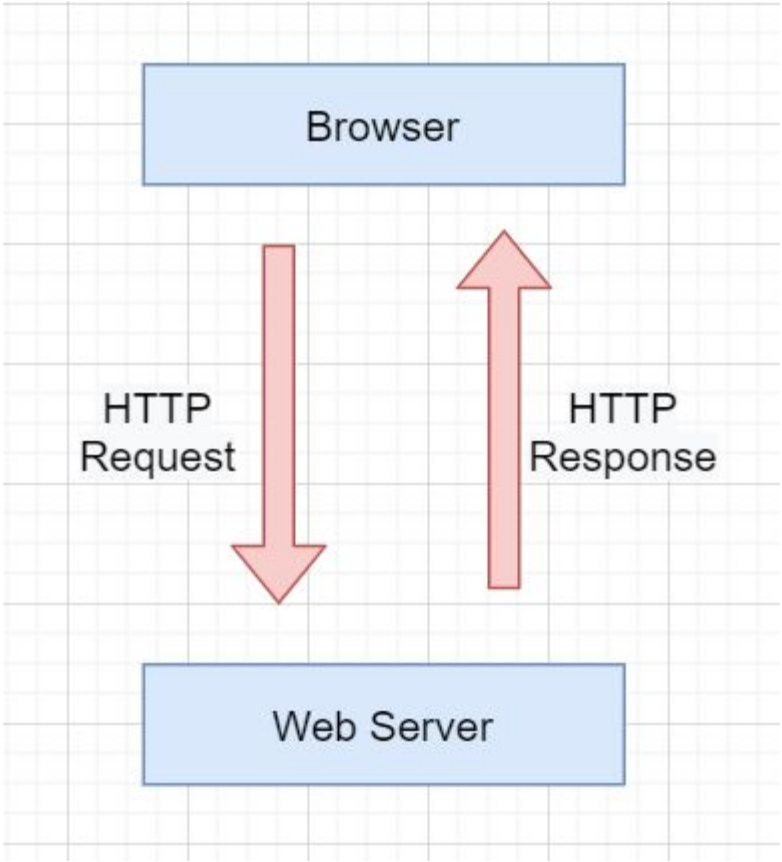
The Web was created by a computer engineer/computer scientist called **Timothy (Aka Tim) Berners-Lee** in 1989**.**

Tim Berners-Lee also created the World Wide Web Consortium (W3C). The main organization which oversees the continued development and standards of the Web.

The Web is based on a networking Architecture called the Client-Server Model



HOW THE WEB WORKS ?



THE POWERS OF

(HYPERTEXT TRANSFER PROTOCOL)

HTTP

HTTP Related Terms

1. What does the word Protocol mean?

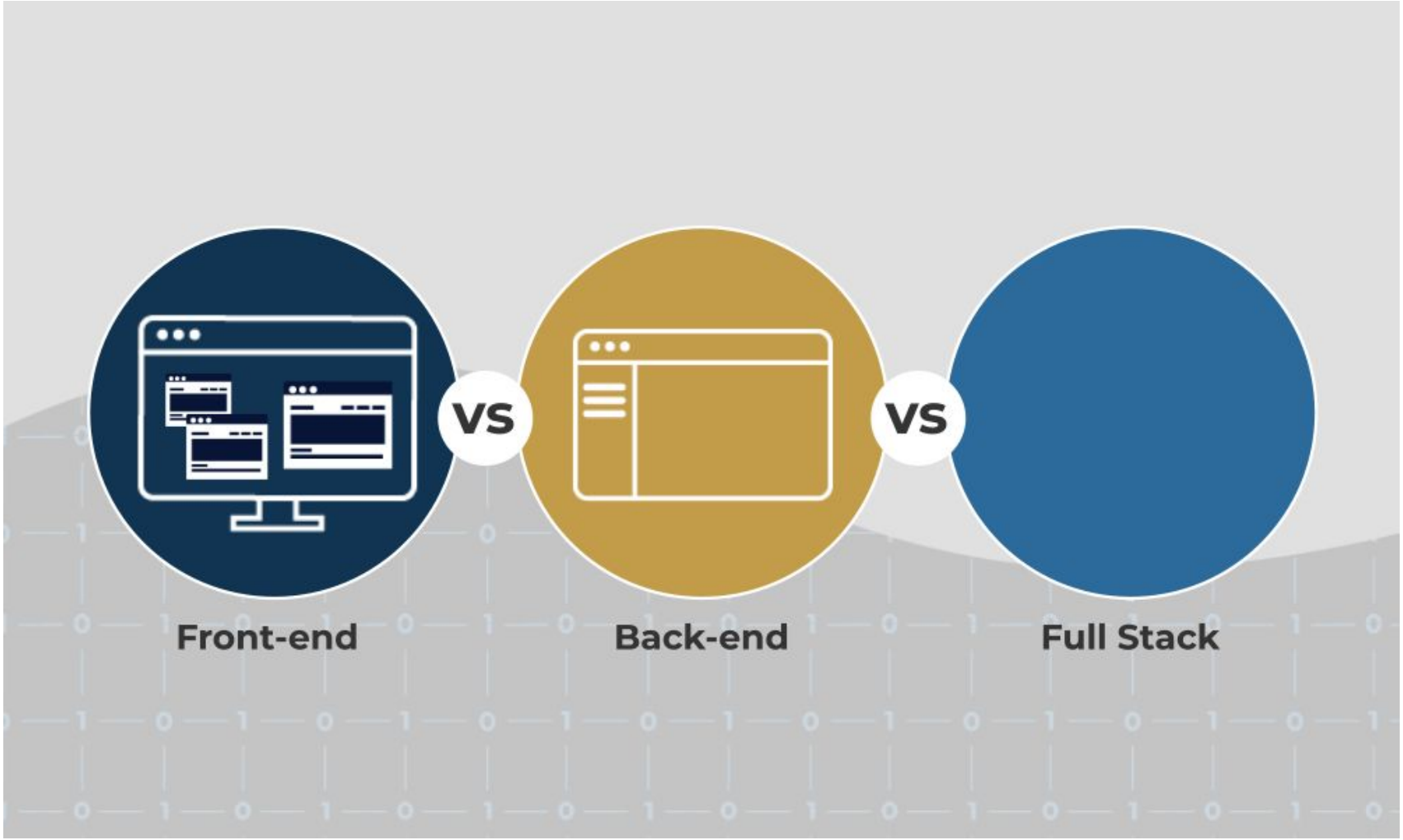
The official procedure or system of rules governing affairs of state or diplomatic occasions

2. What does the word HyperText mean?

Hypertext is a word or words that contain a link to a website or webpage.

HTTP was designed for communication between web browsers and web servers. It is a client Server protocol

WHAT ARE THE PILLARS OF WEB DEVELOPMENT


VS
VS
Front-end
Back-end
Full Stack

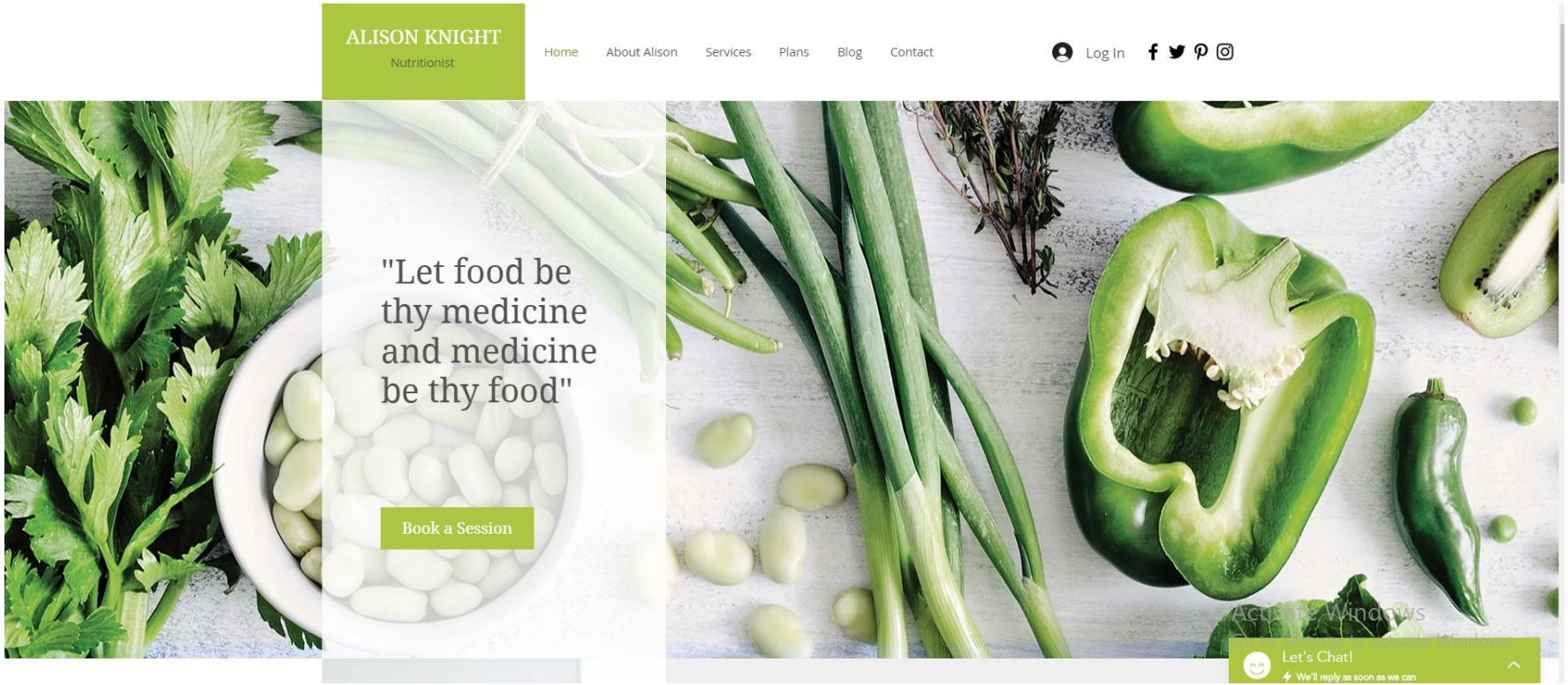
FRONT-END

Front-End Web Development

The Front-End of a website is the part that the users will see and interact with; in other words, the browser where the user interface appears. The Front-End is also known as the presentation layer.

What can you build as a Front-End Developer?

Static Websites



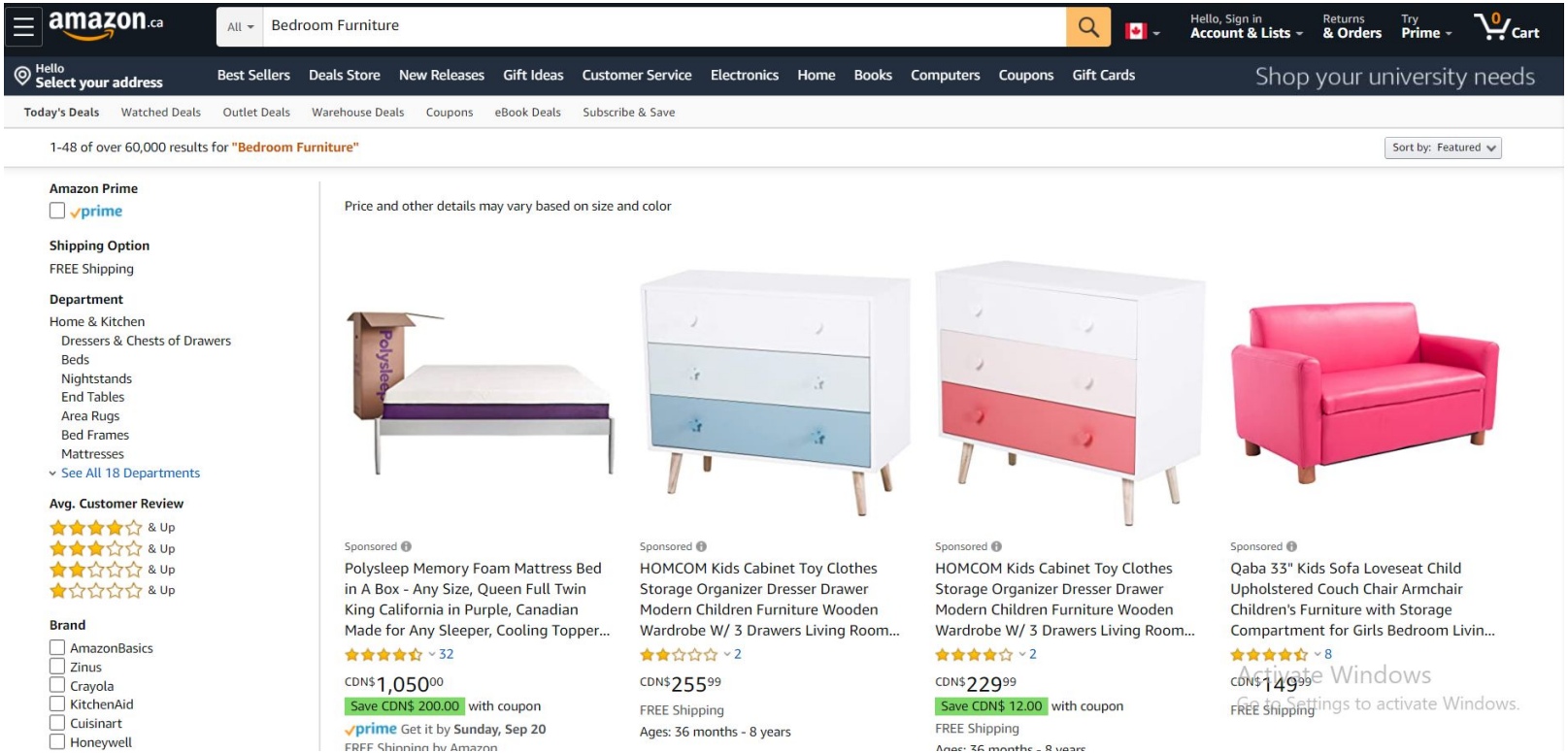
BACK-END

Back-End Web Development

The back-end is the part of the website that users don’t see. It refers to the server side, which is responsible for returning the page, and for storing or fetching user data. It’s also known as the data access layer.

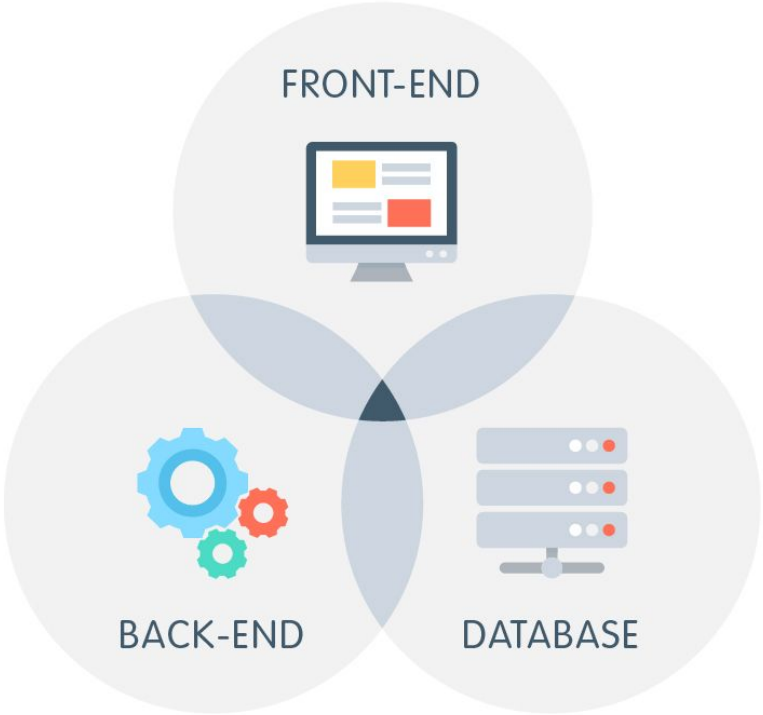
What can you build as a Back-End Developer?

Dynamic Websites or Server Side Based Applications



FULL STACK

FULL-STACK DEVELOPMENT



MAIN

FRONT-END

TECHNOLOGIES

MAIN FRONT-END TECHNOLOGIES

HyperText Markup Language (HTML) & Cascading Style Sheets (

- Always the first thing to learn.
- HTML is used to set and define the structure of web page.
- CSS is used to style the structure of the web page. Thus CSS deals with the aesthetics of the website and/or web application.

JavaScript

- JavaScript is used to add interactivity and functionality to the interface of websites and web application .
- With JavaScript your websites can perform arithmetic, user validation, timed image scroller, animation, etc

TOOLS

Browsers

Browsers market share statistics

Code Editor

GO
B
CL
DP
JET BRAINS
webuilder
eSoftner
TC
IJ
RD
Notepad++
PS
PC
Vim
RD

SEE YOU AT THE NEXT CLASS