

Checkpoint 1: Web Fundamentals Project

Realised by: Fatma Ben Aissa





How does the web works?



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- ✓ These data are linked together by **hyperlinks** accessible via the Internet network



How does the web works?

- ✓ The web is a system allowing access to a set of data in the form of pages, texts, images or videos.
- ✓ These data are linked together by hyperlinks accessible via the Internet network
- ✓ Not to be confused between the two terms **web** and **internet**



How does the web works?



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- ✓ **Internet** is an infrastructure that allows to send and receive data between different devices.
- ✓ Via the infrastructure of the internet we can access **the web**.



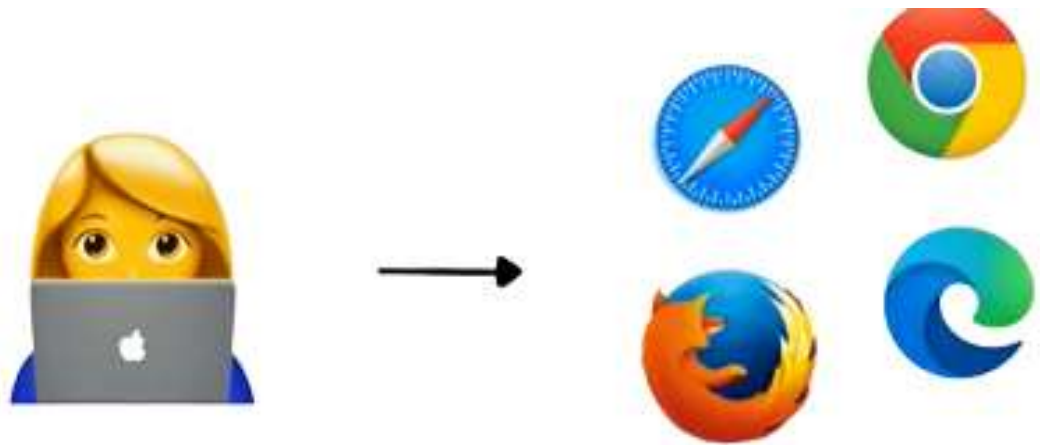
How does the web works?

- ✓ **Internet** is an infrastructure that allows to send and receive data between different devices.
- ✓ via the infrastructure of the internet we can access **the web**.
- ✓ The web is an application accessible via internet



How does the web works?

- ✓ **Internet** is an infrastructure that allows to send and receive data between different devices.
- ✓ Via the infrastructure of the internet we can access **the web**.
- ✓ The web is an application accessible via internet among others
- ✓ Example of applications using the internet we can mention the electronic messaging and the sharing of files



A BROWSER

How does the web works?

Let's see how it works!

- ✓ Johana is on the web, for this she uses a **browser** like microsoft edge, chrome, firefox or safari .
- ✓ A browser is simply a software that will display web pages from their addresses.



Google



A BROWSER


A SEARCH ENGINE

How does the web works?

- ✓ A **search engine** is a website that allows users to find links to other websites.
- ✓ Exemple: Google, Bing ...



GOMYCODE.



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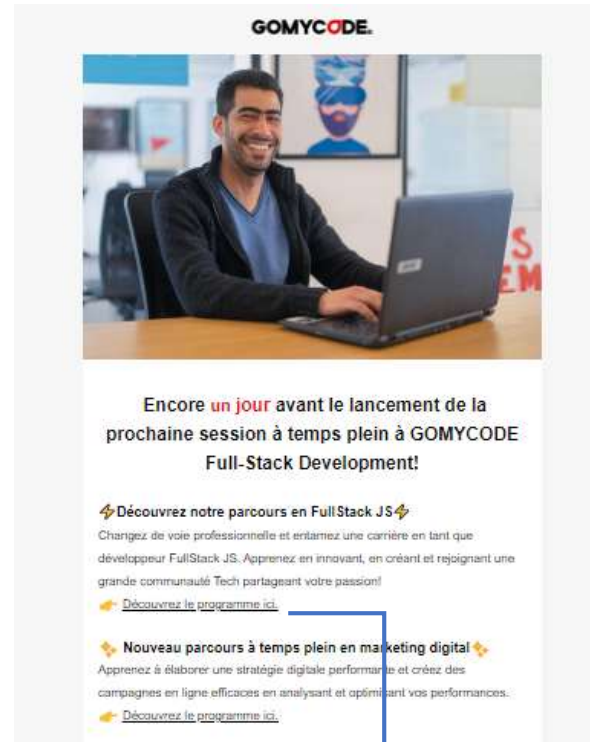
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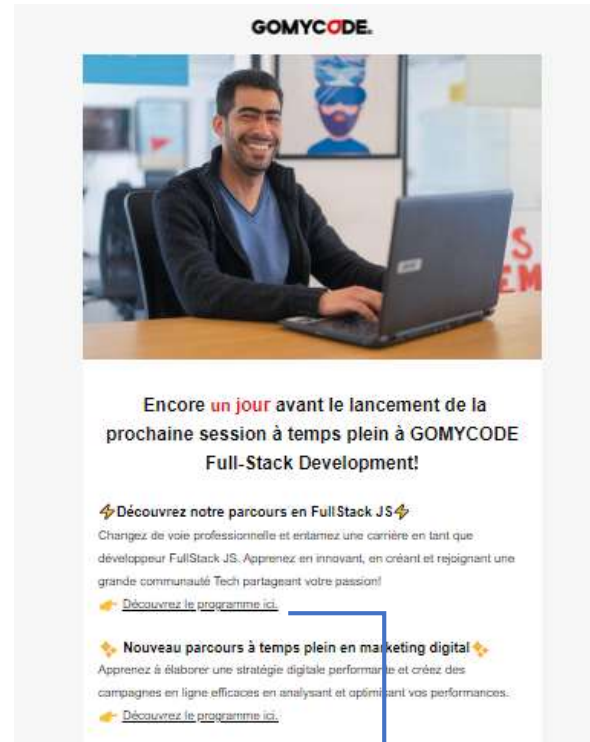
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→ Hypertext link

How does the web works?

- Johana receives an email notification to join "**The Full-Stack JavaScript Bootcamp**" course of **gomycode** center.
- This mail contains a **hypertext link**.



[https://learn.gomycode.co/
dashboard](https://learn.gomycode.co/dashboard)

URL

Hypertext link

How does the web works?

- Johana receives an email notification to join "**The Full-Stack JavaScript Bootcamp**" course of **gomycode** center.
- This mail contains a **hypertext link**.
- When Johana clicks on the link, the browser will read the **url** and look for the corresponding web page.
- An url is the unique web address of the page



WEB SERVER
IP address
213.186.33.4

How does the web works?

- All the content of a web page (images, texts, videos, links) are stored in a **server** which is known as a big storage cabinet.



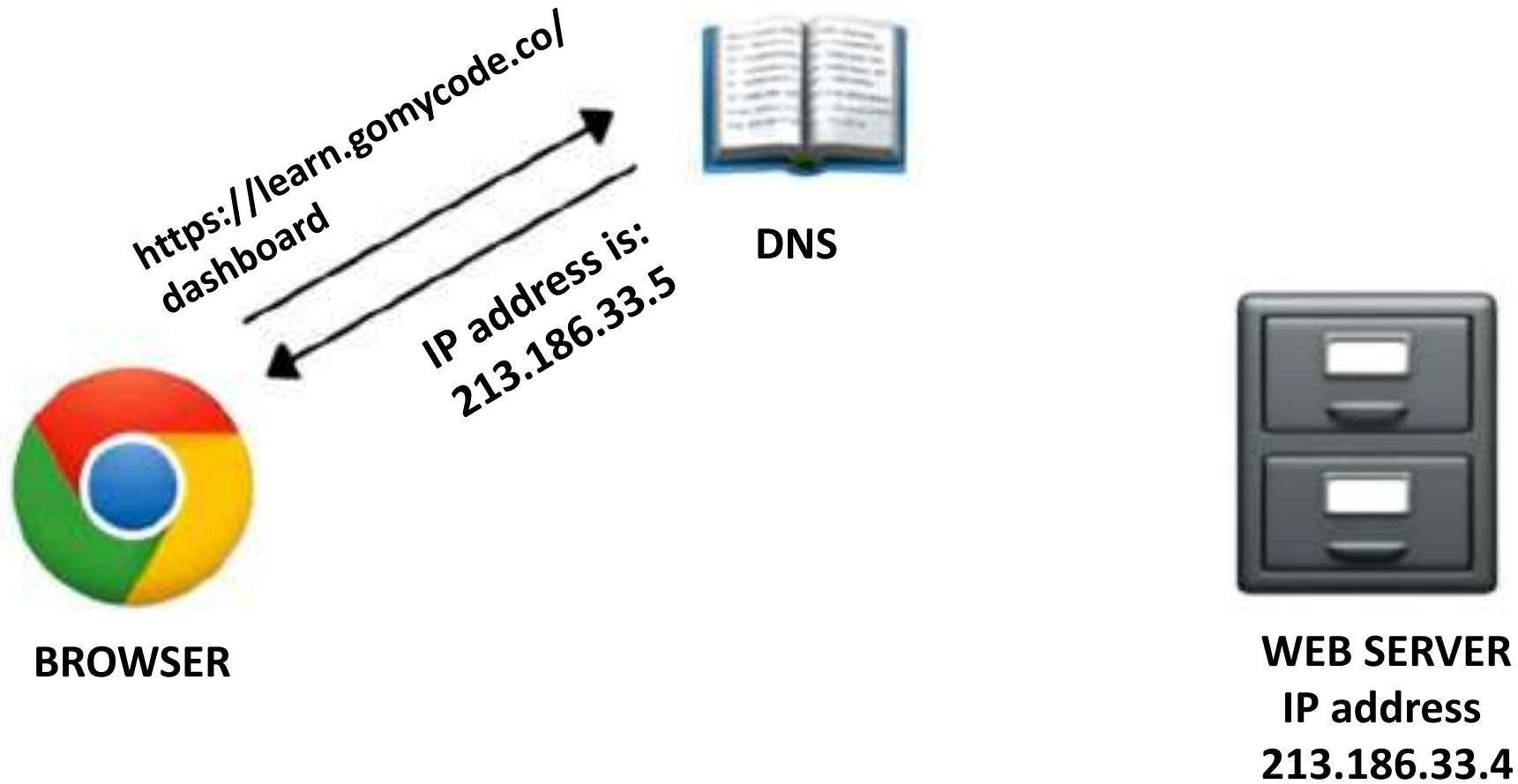
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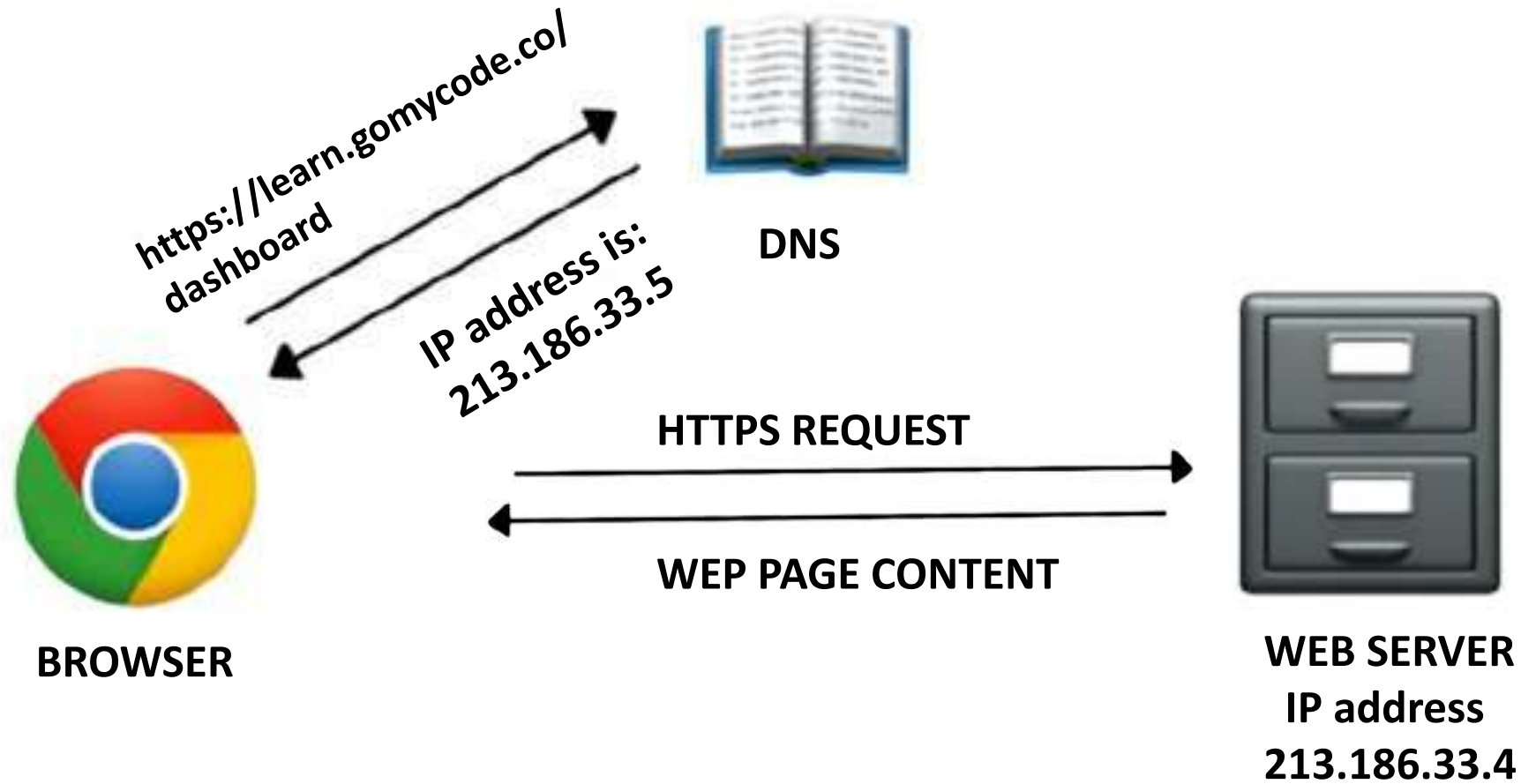
How does the web works?

- All the content of a web page (images, texts, videos, links) are stored in a **server** which is known as a big storage cabinet.
- To find the server the url is not enough, the browser needs the server **ip address** which is an identification number that is assigned to a machine connected to the internet.



How does the web works?

- When the browser has the url, it will find the ip address of the associated machine thanks to the **DNS server**
- DNS is a service that allows to find an ip address for each url.



How does the web works?

- As soon as browser knows the server that hosts the data of the the page it will sends a message to the server (A **HTTP** request).
- HTTP is a protocol used by the server and the web browser to communicate web pages (**HTTPS** is the secure version of HTTP)
- The web page content is written in HTML



How does the web works?

- ✓ The browser of johana then analyzes the HTML to put the page in form and displays the result.



**What do you need to be
a web developer?**

What's the role of a web developer?

designer

User Interface Designer with a passion for designing beautiful and functional user experiences. Minimalist who believes that less is more.

<coder>

Front End Developer who focuses on writing clean, elegant and efficient code. Love HTML5, CSS3, WordPress and a touch of jQuery.



Merci pour votre
attention