[Curs 2]

How a Web App Works. HTML & CSS

[] How a web app works? - paraneters http://www.example.com: 80/path/to/my tile.html?key 1= val# Somewhat be donain name Lopath to the tile Anchor Definitie: A web application is a program that nuns on a browsep. The web application addresses a particular problem in an interactive mode. Your browser prepares to recognize this URL. It sends your reguest to the Domain Name Server (DNS), a repository of domain names and their it addresses. The browser sends the request to the Lound IP, address using the HTTP protocol, asking it to send a copy of the website to the client. Second, the web server processes the neguest. it the server approves the client's neguest, the server sends the client a "200 OK" message and then starts sending the website's files to the browser as a series of small chunks. Third, the browser assembles the small chunks and panses the HTML, life, linst. This leads to the browser recognizing any clink> element retenences to external CSS stylesheets and any script > element reterences to script.

As the browser parses the HTML, it sads neguests back to the server for any CSS tiles and any JavaScript tiles, then pareses the CSS and JavaScript.

The browser generales an in-memory DOM.

Finally, a visual representation of the page is painted to the screen, and the user sees the page content and can begin to interact with it.

II HTML

Definition: HTML (Hyper Text Markup Language)
is the most basic building block of the neb. It
do lines the meaning and shouchere of web content.

Other technologies besides HTML are generally
used to describe a web page's appearance/
presentation (CSS) or functionality behavior (JS).

HTML uses 'markup' to annotate text, imges,
and other content for display in a Web browser.

HTML markup includes special "elements' such as:
<head>, <hitle>, <body>, <header>, <footen>, <aehele>,<
central>, <aehele>,
csection>, , <div>, , , <aside>, <audio>,
<courtes>, content
content>, , <div>, , , <aside>, <audio>,
<courtes>, , <di>, <doo>, ,

THTML Element is defined by a start bag, some content, and an end tag.

A bag consists of the element name surrounded by "and">"

The name of an element inside a bag is case insensitive. That is, it can be written in uppercase, lowercase, or a mixture. For example, the https://www.theo.com/ and ">"

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Other way.

2) HTML Page structure

> <! DOCTYPE html>: declaration defines that this document is an HTMLS document

> < html>: the root element of an HTML page

> < head>: contains meta internation about the HTML page

> < title>: title for the HTML page (which is shown in the browser's title bar or in the page's tab)

> < body>: container for all the visible contents, such

as headings, paragraphs, images, hyperlinks, tables, lists, et + < h1>: large heading + : paragraph

(3) HTML Attributes

Obs P: All HTML elements can have attributes.

Definition: Attributes provide additional internation about elements. They are always specified in the start tag: They usually come in namebolue pairs like: <ing sec="ing.jpg">
HTML Attribute

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HTML Attributes.

6) HTML Classes

Definition: The HTML class attribute is used to specify a class for an HTML element.

Obsp: Multiple HTML elements can share the same class. Multiple classes can be assigned to the same HTML element.

<h2 class = 'city' > PARIS </h2>

5 HTML IDS

Definition: The HTML id attribute is used to specify a unique id for an HTML element.

Obst: You cannot have more than one element with the same id in an HTML document.

The same id in an HTML document.

The id="my Header" > My Header </h1>

III CSS

Definition: CSS (Cascading Style Sheets)

describes how HTML elements are to be

displayed on screen, paper, or in other media.

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CSS is used to define styles for web pages,

including the design, layout and variations in

display for different devices and screen size.

The style definitions are normally saved in

external css tiles.

With an external stylesheet file, you can change

the look of an entire website by changing just

one tile!

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1) Types of CSS

There are 3 types of CSS styles declarations

are as tollows:

1. Internal (Embedded) Styles: placed inside the head section of a particular web page in via the style tag. The are also called "Embedded" styles. 2. Inline Styles: placed directly inside an ATML element in the code

3. External Styles: separate page which is then linked to the web page.

2) CSS Declarations

The selector points to the HTML element you want to

The declaration block contains one or more

declarations separated by semicolons.

Each déclaration includes a CSS property name and a value, separated by a colon.

Multiple CSS declarations are separated with senicolous, and declaration blocks are surrounded by cuely braces.

(3) CSS Combinators

Selector	Example	Example description
element element	div	all sp? inside sdirr
dement > element	div > p	all with parent <div></div>
dement + element	-	all immediately after <div></div>
el1 nel2	pNul	aff preceded by a

GCSS Pseudo-classes

Definitions: A pseudo-class is used to define a special state of an element.

For example, it can be used to:

style an element when a user mouses over it astyle visited and unvisited links differently style an element when it gets towns

IV SCSS

Definitions: SCSS is a preprocessor which lets you use features that aren't a part of the wider CSS standard yet, and provides better workflows for maintaining your stylesheets. It is one of the syntaxes used by Sass.

Obst: Sass is a stylesheet language that's compiled to CSS. It allows you to use variables, nested reules, mixins, tunctions, and more, all with a tully CSS-compatible syntax. Sass helps Keep large stylesheets well-organized and makes it easy to share design within and across projects.

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