WEB TECHNOLOGIES

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HTML

- HyperText Markup Language (first published in 1993)
- Language to create web pages
- Used by browser to display pages

```html
<div id="menucontainer">
    <h1>Info about <b>Product 1</b></h1>
</div>
<div id="leftArea">
    <h4>Select product</h4>
    <div class="productList">
        <div><a href="/linkHere">Product 1</a></div>
        <div><a href="/linkHere">Product 2</a></div>
        <div><a href="/linkHere">Product 3</a></div>
    </div>
</div>
</div>
<div id="main">
    <table>
        <tbody>
            <tr><td>Name: </td><td>Product 1</td></tr>
            <tr><td>Description:</td><td id="description">Lorem ipsum dolo
            <tr><td>Price: </td><td id="price">CHF <b>100</b></td></tr>
            <tr><td></td><td><input_type="button" value="BUY NOW!!!" /></t
```

CSS

- Cascading Style Sheets
- Used for describing the presentation style of HTML pages
- Stored in static files
- Uses selectors to apply styles to page elements

```
h1 { color: white;
  background: orange;
  border: 1px solid bla
  padding: 0 0 0 0;
  font-weight: bold;
}
/* begin: seaside-theme */

body {
  background-color:white;
  color:black;
  font-family:Arial,sans-serif;
  margin: 0 4px 0 0;
  border: 12px solid;
}
```

CSS

JAVASCRIPT

- Object oriented scripting language for HTML
- There is no true relation between Java and Javascript, they ar just (somehow) similar in syntax
- Executed by browsers (clients)
- Used to perform manipulations of HTML pages via DOM (Document Object Model)

JQUERY

- A usefull Javascript library
- Simplifies the usage of JavaScript
- Main functionality: access DOM elements easily with selectors
- Allow to handle events and use AJAX easily

AJAX

- Allows to perform HTTP requests to a server in background
- Allows to have dinamic web pages that are updated without reloading (F5)

BOOTSTRAP

- Open-source framework for website design of web applications
- Comes in a Javascript file + a CSS file and requires JQuery
- Contains several reusable HTML components and templates (i.e. buttons, panel, forms)
- Allows to create responsive interfaces with a grid based system
- Easily pluggable in HTML by using specific class names