

LE08: 03/04/2020

Master in Informatics and Computing Engineering
Database and Web Applications Laboratory
Instance: 2019/2020

Lecture #8 :: 03/04/2020

Goals

By the end of this class, the student should be able to:

- Describe the main events of the history of the Internet and the World Wide Web.
- Describe the key technologies associated with web development.
- Describe the typical architectural options for a web application.

Content

- Brief review of the history and main technologies supporting the Internet.
- Overview of the history and main technologies supporting the World Wide Web.
- Introduction to web application development.
- Overview of architectural patterns for web applications.

Bibliography

- World Wide Web
 - Internet Society. *The Internet - History, Evolution & Future*. Available at: <http://www.internetsociety.org/internet>. Last access on March 2020.
 - D. E. Comer. *Computer networks and internets: with internet applications*. Pearson Education International, 2004. ISBN=0-13-123627-X
 - M. Zalewski. *The tangled Web: a guide to securing modern Web applications*. No Starch Press, 2011. ISBN=978-1-59327-388-0
 - Google Chrome Team. *The Evolution of the Web*. Available at: <http://www.evolutionoftheweb.com/>. Last access on March 2020.
 - CERN. *Web at 30: Celebrating the 30th Anniversary of the Invention of the Web*. Available at: <https://web30.web.cern.ch/>. Last access on March 2020
- PHP
 - The PHP Group, *PHP Documentation*. Available at: <http://docs.php.net>. Last access on March 2020.
 - Laravel, *The PHP Framework for Web Artisans*. Available at: <https://laravel.com/>. Last access on March 2020.

- Josh Lockhart, *PHP The Right Way*. Available at: <http://www.phpthtrightway.com>. Last access on March 2020.

Materials

- Materials presented in class: [Web Development](#).
- Video recording of the class: [Shared Drive da UP](#)
- Sérgio Nunes, J. Correia Lopes, [High-level architecture. Privileges. Web resources specification \(A7\)](#), March 2020
- Sérgio Nunes, J. Correia Lopes, [Vertical prototype \(A8\)](#), March 2020

Summary

- The history of the Internet and the World Wide Web. The main technologies used for web development. The architecture of web-based systems. Overview of server-side web technologies.¹⁾

— *LBAW, 2019/20*

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¹⁾

A história da Internet e da World Wide Web. As principais tecnologias associadas ao desenvolvimento web. A arquitetura de sistemas baseados na web. Uma visão geral das tecnologias web do lado do servidor.

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