Front End Web Development

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1. Goals

By the end of this course the trainee will be able to create a fully functional front end website by applying the fundamentals concepts of front end web development using HTML, CSS and JavaScript also he'll be familiar with a lot of tools and workflow methodologies that we're going to explore throughout this course.

2. Prerequisites

This course is not a beginner's course a basic knowledge of programming fundamentals is required (variables and loops and conditions) also a little knowledge of HTML and CSS is preferred even though we're going to pass briefly by the basics.

3. Content

1. INTRODUCTION

A general introduction to web development with more focus on the front end, introducing and explaining a few fundamentals terms

- a. *How the Web works?*
- b. *FrontEnd & BackEnd & FullStack*

2. STRUCTERING WEB PAGES WITH HTML5

General introduction to HTML with a fast overview of the most used elements

- a. *HTML Role & Basics*
- b. *HTML Common Elements*
- c. *HTML Forms*
- d. *HTML5 Semantics*

3. STYLING WEB PAGES WITH CSS

General introduction to CSS with a fast overview of the most used concepts and rules

- a. *CSS Role and Syntax*
- b. *CSS Selectors*
- c. *Common CSS Concepts*
- d. *CSS Layouts*
- e. *Responsive Design*
- f. *CSS Animation*

4. ADDING BEHAVIOUR TO WEBPAGES WITH JAVASCRIPT

General introduction to JavaScript with a fast overview of the most used concepts

    a. JavaScript Introduction

    b. JavaScript Basics

    c. JavaScript Functions & Objects

    d. DOM

    e. Events

    f. AJAX

5. WEB DEVELOPEMENT WORKFLOW AND TOOLS

Introducing the mostly used workflows and tools in web development process

    a. Browsers

    b. Text Editors & IDEs

    c. Task Runners

    d. Version Control Systems (Git)

6. Front End CSS Frameworks and Preprocessors (Bootstrap as an example)

    a. CSS Frameworks

    b. Introducing Bootstrap

    c. Extending CSS with Preprocessors

7. JS Libraries & Frameworks (JQuery as an example)

    a. JavaScript Libraries

    b. Introduction to JQuery

    c. JavaScript Frameworks

8. Next Steps

    a. Tips & Tricks

    b. Conclusion