

## Web and Multimedia Technologies – Project Report

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<b>Project title</b> (website subject)
<b>WEngineers</b>

<b>HTML version</b>
<input checked="" type="checkbox"/> HTML5 <input type="checkbox"/> HTML4 <input type="checkbox"/> XHTML

<b>Client-side technologies used</b>
Javascript, css

<b>Server-side technologies used</b>
Xampp distribution (php, mySql)

## Website content description

Describe the website in terms of:

- *Content of the single pages and/or of the main sections* (e.g., “The products page lists all the...”, “The ‘News’ section presents...”)
- *Graphic design* (e.g., “The navigation menu is located in the left part of the page, immediately below the header, and...”)

Specify whether, for the definition of the content and/or of the graphic structure of your site, you have “drawn inspiration” from one or more existing websites (indicating their URLs).

This section can be extended to the next page, if necessary—but possibly avoid exceeding 50 lines.

### Content of the Single Pages and Main Sections

- **index.php**  
This is the homepage of the website. It serves as the landing page and provides general access to other functionalities, including login and registration.
- **login.php / logout.php**  
The login page allows registered users to authenticate by entering their email and password. Upon successful authentication, a session is started. The logout page terminates the user session and redirects back to the homepage.
- **process-signup.php**  
This script handles the logic for user registration. It receives user data via POST (name, email, password) and stores it in the database after checking for duplicates and sanitizing the input.
- **process-request.php**  
This script processes data submitted from a form on the website, storing the information in the database. It is intended for handling user requests or form submissions.
- **portfolio.php**  
This page displays a portfolio section by retrieving project-related data from the database. Each entry includes a project title and description (it also includes the links of the engineers’ profiles in several websites). It is accessible only to logged-in users. It also contains a form which allows the users to ask for a service.
- **navbar.php**  
This file contains the website’s navigation menu. It is included across multiple pages and adapts its content based on the user’s session status (showing “Logout” when logged in and “Login/Register” otherwise).
- **database.php**  
This file manages the connection to the MySQL database using mysqli. It is included in all pages that require database access.
- **register-engineer.php**  
This file gives the user, after login in, the possibility to be registered in portfolio.php

### Graphic Design

- **Layout and Structure**  
The website uses a clean and simple HTML layout. There is no use of CSS frameworks like Bootstrap; all styling is done via plain CSS files. The layout is centered and fixed-width, prioritizing clarity over complexity.
- **Navigation Menu**  
The navigation menu is located at the top of the page and includes links to the homepage, portfolio, login, logout, and registration pages. Its content is dynamically adapted depending on the user’s authentication status.
- **Forms and Input Fields**  
Both the login and registration pages use standard HTML5 input fields. Forms are minimalistic and clearly structured, allowing for straightforward user interaction.
- **Color Scheme and Style**  
The visual style is minimalist. The focus is on usability rather than aesthetics, with standard fonts and neutral background colors. There is a clear separation between navigation and content.

## Technical description of the website

Describe the website implementation in terms of:

- *Folders (directories) and files*: list the folders that are part of the project, describing their content (e.g., “The folder `img` contains all the images of the website, while the folder...”). Clearly specify the name of the Home Page file
- *HTML structure of pages*: indicate whether there are “structures” shared by all or many pages of the website, such as headers (e.g., `<header>` tag), generic containers (`<div>`, `<section>`), navigation sections (`<nav>`), main content (`<article>`), footer (`<footer>`), etc.
- *CSS*: indicate the main selectors for which you have defined styles (shortly describing them), including possible classes or pseudo-classes (e.g., “The style for the `#main` selector defines an absolute positioning and...”; “The generic class `.ital` specifies that...”)
- *JavaScript (and other possible client-side technologies used)*: illustrate the purpose of the employed JavaScript code (as well as of other possible client-side codes), shortly describing it (without necessarily providing all technical details, however); e.g., “The JavaScript function `slideSh()` allows to display a sequence of images which are placed in the folder ...”). Indicate the URL(s) of the possible page(s) from which the JavaScript (or other technology) code has been “copied” and adapted to your own needs
- *Server-side technologies*: indicate the purpose of the employed server-side code (e.g., PHP, ASP, Node.js, etc.), shortly describing it (without necessarily providing all technical details, however); e.g., “The PHP code at the beginning of the `<body>` of the page is used to...”
- *Development tools employed*: HTML/CSS/JavaScript/etc. editors, possible image editing tools (e.g., Gimp, Photoshop, ...), etc.

Specify whether, for the creation of the website, you have “drawn inspiration” from existing websites or templates (indicating their URLs), and whether you have used specific frameworks (such as Bootstrap). Also indicate anything you deem useful to make your implementation choices clear.

This section can be extended to the next page, if necessary—but possibly avoid exceeding 90 lines.

### Folders (Directories) and Files

ProgettoWeb: includes all the php files used in the project and the few fully html ones. It also contains the images folder, wich contains the pics used in the main page, sql folder, wich contains the queries used in the database and js folder.

The name of the home page is index.php

HTML:

There are shared html elements such as the navigation bar and the footer.

CSS: The most complex element is the navigation bar which is also responsive. It is composed by many elements and its shared by all pages. It is absolutely positioned on top of the site and in the foreground when we interact with it the sliding menu appears.

PHP: php is used to perform the interactions to the database and to import common html elements inside the pages.

JavaScript: js is slightly used, the most important part is used in the validation in the signup page.

Development tools: Visual studio code is the editor used. XAMPP distribution is utilized to use a mysql database and apache web server