

CSCI111 – Web Programming and Problem Solving

Course Project Requirements

Personal Website

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1. Introduction

1.1. Goal of the Project

The goal of the project is to create your own personal website.

1.2. Project Description

This is the final course project where you need to create your personal website as an online CV or portfolio page using HTML, CSS and JavaScript. The main purpose of creating such a website is in showcasing your personal strengths, skills and projects so that it will help you in your future professional or academic career.

The work must be done by **strictly** following these technical requirements. Anything that is not described in this document is allowed and left to your discretion.

1.3. Learning Outcomes

After the completion of the course project, you will:

- reinforce in practice the knowledge of HTML, CSS and JavaScript concepts and techniques gained in this course;
- read and understand the technical requirements specification document;
- develop the ability to logically plan, design and implement a website;
- learn how to deploy a website on a public hosting platform.

1.4. The Deadline

The deadline for this course project: **April 15, 2023 at 23:59**

There is no deadline extension, the stated deadline is firm and not changeable. Failure to submit your work before the deadline will result in getting zero points for this course activity.

2. Overall Requirements

2.1. Content

The future employer or academic supervisor doesn't know about you anything unless you tell them. So, it is completely up to you what story you tell them.

The content of your website must be highly **professional** and reflect your personality and real- world activities such as (pick whatever is relevant):

- your education and courses taken during the study,
- work experience and references,
- your personal network and societies,
- achievements and certificates,
- personal and professional skills,
- extracurricular activities,
- professional and volunteer projects,
- project outcomes and showcases,
- individual thoughts and vision,
- links to the social media or Github accounts,
- additional resources.

However, any junk and irrelevant content might be a reason for points deduction.

For some ideas you can refer to the websites of the others:

1. 20 unique personal website examples to use in 2023. <https://webflow.com/blog/personal-website-examples>

2. Best Personal Websites: 35+ Examples to Blow Your Mind
<https://blog.hubspot.com/marketing/best-personal-websites>

3. Functional Requirements

3.1. Structure

The website that you develop must have a **home page** (*index.html*) and **at least one additional page**. Depending on the theme of your personal page you can have a page describing you, your projects, your blog posts or something else. The additional page is the page that you created yourself (using HTML file or pure JavaScript) and it is not an external resource (social media account or some blogging platform). However, you might have links to the external websites and resources.

As the structural components of the website, you must have:

- **full name** with your photo (a photo is for the evaluation purposes),
- a navigation bar (**menu**),
- main **content** area (arrangement of this part is up to you),
- a **contact** information section with the links to your social media accounts.

3.2. Navigation

Since it is required to have several (at least two) web pages in your website, there must be a navigation bar (**menu**). The menu items must be styled with **hover** effects. Also (optionally) try to make your menu collapsible (**hamburger** menu) when the screen size is too small to fit the menu items. There is no limit of creativity you can apply to the menu.

3.3. Interactivity

The website must have some interactivity using JavaScript program. Since this your professional website, there is no need to go too crazy about animations and fancy behavior of the website. The **minimal effects** for the website might be:

- some DOM manipulations,
- mouse/button click or other events,
- form handling events,
- data processing and presentation.

All the JavaScript code must go to the **main.js** file linked to your webpage(s).

4. Design Requirements

4.1. Website Styling

Most of the website styling must be done using an external style sheet file **styles.css**. However, in special cases you can use inline styling or JavaScript to decorate your elements.

4.2. Responsive Web Design

The website must use **responsive web design** strategies such as:

- Viewport setup,
- Media queries,
- Flexible layout,
- Responsive images,
- Relative units.

In your media queries you must target at least desktop and mobile devices. Define the breakpoints by yourself.

4.3. Layout

The layout of the website must be **flexible** so that it adapts to the type of devices you are targeting. You can use variety of techniques like:

- Flexbox,
- Float,
- 12-column grid view,
- CSS Grid,
- or others depending on your needs.

For the desktop version, you must have at least two-column layout of the website or part of it (main part, footer, or other).

4.4. Colors

One of the difficult parts of website design is to choose a color palette. Here, you are free to choose any suitable color scheme on the web or ask for help from some qualified designers. Nonetheless, your website must use at least **three primary and supplementary colors** for the fonts and background (different from browser defaults).

You can use color schemes using these resources:

1. Color palettes <https://www.canva.com/colors/color-palettes/>
2. How to Choose a Website Color Palette: 12 Top Color Schemes for 2022
<https://www.envato.com/blog/how-to-choose-a-website-color-palette-12-top-color-schemes-for-2022/>

4.5. Fonts

The only requirement for the fonts is their **size** of the content which must change depending on the target device. It is required to use relative font sizes (em, rem).

4.6. Images

There must be **images** in your website. They must change their **size** depending on the target devices. Common techniques to make your images responsive:

- Set max-width and height.
- Use picture and srcset.
- Use of vector (svg) or bitmap (jpg) images.

5. Other Requirements

5.1. Directory Structure

It is mandatory to have the following **directory structure** of the project:

```
USERNAME.github.io
|__ index.html
|__ main.js
|__ styles.css
|__ pages
|__ images
|__ resources
```

where:

- **USERNAME.github.io** is the root directory (and a repository name) of your project where USERNAME is your Github account name;
- *index.html* is the home page of your website;
- *main.js* is the JavaScript file linked to the index.html;
- *styles.css* is the style sheet file linked to the index.html;
- **pages** is the directory where the additional pages might be stored;
- **images** is the directory where all the images must be stored;
- **resources** is the directory where you can store additional resources (video, sounds).

5.2. Deployment

The project files must be deployed (uploaded) to the **USERNAME.github.io** repository on Github, where USERNAME is your Github account name.

The website must be available **online** via the URL <https://USERNAME.github.io>

5.3. Submission

The course project is considered submitted if the corresponding project files are uploaded to the **USERNAME.github.io** repository on Github before the deadline stated above. Any changes to the repository after the deadline will not be accepted. The work will be evaluated based on the downloaded version from the Github.

The website must be available online via the URL <https://USERNAME.github.io>. Unavailable website will result in deduction of the corresponding points.

6. Evaluation Criteria

6.1. Grading Scheme

The grading of the project will be done according to the following scheme. Note that there might be partial points for each criterion.

Criterion	Points
Content	10
Website Structure	10
Navigation Bar	10
Interactivity	10
Responsiveness	10
Website Layout	10
Styles (colors, fonts, images)	10
Directory Structure	10
Github Submission	10
Website Availability	10
TOTAL	100

6.2. Extra Points

Besides the above-stated points, there will be extra points for the extra features of the website that are not described in this document. The maximum number of extra points might be up to 20% of the total score received in the standard grading scheme.

The possible ways of getting the extra points might be:

- extraordinary design of the website,
- impressive and compelling content,
- use of HTML, CSS and JavaScript concepts and techniques not covered in the course.

There is no any scheme according to which extra points will be given and it is completely dependent on the subjective view of the evaluator/instructor.

The (adjusted) extra points can be used to complete the missing points of any course activity in the following order: project, quizzes, labs.

GOOD LUCK!