

Assignment 1: Include HTMLs

Description

Create a web page template for personal portfolio site by dynamically loading common HTML parts to the main content pages. You generate 3 separate HTML files; **header.html**, **side.html** and **footer.html**., which are inserted into other HTML pages. Then, create 3 other HTML pages; **page1.html**, **page2.html** and **page3.html**, which are constructing the page layout by inserting the header, footer and side sections.

An example of page1.html



General Requirements

- Must use your own HTML/CSS/JavaScript (no third-party libraries/frameworks)
- Must be unobtrusive (no inline CSS and JavaScript)
- Must define a separate JavaScript file for the main driver (e.g. main.js)
- Must define a separate CSS file to define styles (e.g. main.css)
- Must be validated (no errors or warnings in HTML, CSS & JavaScript)
- Must use grid CSS styles with named areas for the page layout (3 rows by 2 cols)
- Must include the header, side and footer dynamically using JavaScript
- Must use relative paths and all HTML files are stored at the same directory
- **header.html** must contain the navigation menu with <a> tags to switch pages
- **side.html** must contain your profile image, name, email and personal motto/quote
- **footer.html** must contain your copyright statement and social network links (at least 3)
- **page1.html**, **page2.html** and **page3.html** must contain at least one <h1> for page title and <p> for a random paragraph

References

- Note 01, 02, & Lab 01, 02
- www.iconpacks.net for SVG images

Deliverables

An archive file, **Assignment1-<yourname>.zip**, which contains all the files (HTML, CSS, JavaScript).

NOTE: You must include the file header at the beginning of each file. The header must contain a short description, your name, email, date, etc.

Submission and Due Date

Submit your deliverables to SLATE/Assignments/Assignment1 by **Saturday, Jun 03, 11:59 PM**.

You may submit multiple versions, but only the latest version will be evaluated.

NOTE: Late submission will be deducted 10% per day. (max. 3 days)

NOTE: Partial implementation will be accepted.

NOTE: This assignment is individual work and subject to Sheridan Academic Integrity Policy.

Tasks and Evaluations (Total 100 points)

Task 1: header.html (20 points)

1. Partial HTML page containing 3 navigation anchors to page1, page2 and page3
2. Must have mouse hover effect on <a> tags, at least changing the background colour
3. Must use semantic tags, for example, <nav>, , , etc.
4. Must use flex CSS layout and align the content center horizontally/vertically
5. Reference: Lab02

Task 2: side.html (20 points)

1. Partial HTML page containing your profile picture, name, email, and personal motto
2. The maximum width should be 300 pixels
3. Must have "alt" attribute for to avoid warning
4. Must style your name with bigger or bold font
5. Must use semantic tags, for example, <blockquote> or <q>
6. Must align the content center horizontally

Task 3: footer.html (20 points)

1. Partial HTML page containing your social network links and copyright statement
2. You can use external PNG or SVG images, for example, iconpacks.net
3. Must include at least 3 social network links
4. At least state your name, year and for © symbol (©) for the copyright
e.g.: © 2023 [Song Ho Ahn](#)
5. Must align the content center horizontally

Task 4: page1.html, page2.html, page3.html (20 points)

1. A complete HTML page including header, side and footer sections
2. Must include the sections dynamically when the DOM content loaded
3. Must use grid layout (3 rows by 2 columns) with named area
HINT: grid.html at SLATE/Examples
HINT: Use grid-auto-rows/grid-auto-columns or grid-template-rows/grid-template-columns for dimensions
4. The main content section must have a <h1> for the title and a <p> for a random paragraph

Task 5: JavaScript (main.js) (20 points)

1. Must load header.html, side.html and footer.html and insert them into the main content page whenever page1.html, page2.html and page3.html is loaded.
HINT: Lab02
2. Must remove the custom attributes, "data-*" after inserting the dynamic HTML content

Bonus (20 points max)

- Add additional CSS style for visual enhancements (10 points)
- Add additional JavaScript to load JavaScript files asynchronously from “data-js” custom attribute (5 points)
- Add additional feature to improve functionality (5 points)

Q & A**Q1. How to load a file a synchronously?**

Use fetch() function (We will discuss it more in week05)

```
let filepath = "header.html";  
// read file as plain text  
fetch(filepath).then(response => response.text())  
    .then(text =>  
  
    {  
        // insert the text to HTML  
        element.innerHTML = text;  
        ...  
    })
```

Q2. How to determine the dimension of the grid layout?

Use grid-auto-rows and grid-auto-columns to specify the width/height automatically

Reference: <https://developer.mozilla.org/en-US/docs/Web/CSS/grid-auto-rows>

```
/* example of row distribution */  
grid-auto-rows: min-content auto min-content;  
  
/* example of column distribution */  
grid-auto-columns: min-content auto;
```