



INTRODUCTION TO INFORMATION SYSTEMS

60% Group Coursework

2022-23 Autumn

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I confirm that I understand my coursework needs to be submitted online via MySecondTeacher under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a marks of zero will be awarded.

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1. Introduction

a. About coursework

This course is all about creating a website for bonsai plants that has a homepage, products, research, blog, about us, and contact info. Using Balsamiq wireframes, the website's framework was designed while working on the coursework. After then, we used HTML, CSS, and JavaScript to create a website.

b. Goals and Objectives

The students are divided into groups, and each group is given the assignment of designing and creating a basic and beautiful website for a bonsai plant. We must create six pages for this project, including Home, Product, Blog, Research, About Us, and Contact Us. The main objective of this coursework is for students to complete it with the ability to create user-friendly websites using present web design concepts. The goals and objectives of this project are to demonstrate that:

- i. We are familiar with the fundamentals of internet technology and how it affects our daily life.
- ii. Utilizing the appropriate tools and technology, we are able to create a straightforward website.
- iii. We now know how to preserve the folder hierarchy.
- iv. We understand the website's structure and basic navigational concepts.

c. HTML, CSS and JS

i. HTML

HTML, or Hypertext Markup Language, is a markup language for the web that defines the structure of web pages. "Tags" in HTML allow you to accomplish this. As a result, tags can be used to create headings, paragraphs, bolded words, italicized words, and more. The structure of web pages is decided by HTML. A web page cannot look attractive and be interactive with just this framework. Therefore, to make your HTML attractive and add interactive, we'll need use assisted technologies such as CSS and JavaScript (Chris, AUGUST 24, 2021).

ii. Cascading Style Sheets (CSS)

Web pages can be styled using CSS (Cascading Style Sheets). CSS stands for Cascading Style Sheets. It is employed to presentable web pages. Utilizing this will make the process of producing decent web pages easier. We can use it to apply styles to web pages. More importantly, it gives us the freedom to accomplish this without being limited by the HTML that each web page is made of. CSS can be internal or external depending upon the requirement (Anon., 21 Sep, 2022).

iii. JavaScript (JS)

JavaScript is a dynamic programming language used for creating websites, web apps, video games, and many other things. You can use it to add dynamic features to web sites that you couldn't do with only HTML and CSS. All that would be available on the web without JavaScript is HTML and CSS. You can only implement a few web pages using them alone. The core of your webpages, if not all of pages, would remain constant, and CSS would only be used for dynamic changes like animations.

iv. The use of HTML, CSS and JS while developing the websites.

HTML is used while using the website to provide the website's structure. Many different tags are used, such as div, img, a, span, table, title, and p. The styling of the website is also done using CSS. The CSS is utilized externally, internally, and inline. For the navigation bar and footer section styling, external CSS is used. For the styling of an element, internal CSS is used. and styling an element is done with inline CSS. The class name and ID are used with the CSS selectors to choose the HTML tags. For styling, CSS attributes like hover, margin, padding, text color, font size, background color, and many more are used. JavaScript is often used to provide dynamic behavior to the website and make it interactive. It is used for accordion, image-slider, form validation, and pop-up messages. The idea of mixing CSS, HTML, and JS is used, and the browser is used to display the results. For validation, if-else statements, functions, and the DOM concept are used. The coursework includes the basic and common topics like variables, declarations, and initialization. Form validations and pop messages employ the logical operators alert (), confirm (), and setInterval ().

d. Verdict

We use HTML, CSS, and JS to develop the website since we are familiar with them and because the coursework requires it. For common web technologies, these subjects are essential and very basic. JS is used to add dynamic behavior to the webpage and add special effects to the webpages. HTML is used for layout and structure, CSS is used for stylings like color, font size, width, and height, etc. ReactJS, jQuery, Bootstrap, and Tailwind CSS are a few more frameworks and libraries that were stopped to be used in this project. These subjects are huge and extremely broad. We shouldn't jump immediately into these subjects as a beginning. Though they might make our task simpler, these things. But if we are unable to prove our basic understanding, it will be ineffective.

2. Discussion and Analysis

a. Sublime text editor

For programmers, Sublime Text is a powerful text editor that runs on Windows, macOS, and Linux. Compared to more basic text editors, Sublime is packed with tools for quickly selecting and editing text as well as auto-complete options that make typing faster by adding commas and quotation marks. Furthermore, Sublime Text offers a sidebar that can be accessed from the top menu by choosing View > Sidebar > Show Side Bar or by pressing the keyboard commands Ctrl+K followed by Ctrl+B. The sidebar displays all of your open documents and, as we'll see in the next tips, is a terrific way to browse a folder or group of folders (PAUL, OCT 22, 2021).

b. Balsamiq wireframes

Balsamiq is a software program that allows you to create mockups and wireframes of a website. It can be downloaded or used as a web application. Personally, we like the online app because it enables a team to easily collaborate on a wireframe from any location in the world. Balsamiq is incredibly easy to use. To get started, just head to www.balsamiq.com/wireframes . You can purchase a plan, or start a 30-day free trial. Balsamiq is a great tool for building low fidelity wireframes of your website (S., Aug 4, 2020).

References

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