



SF Web Development Workshop

2022

Assignment 1 — HTML and CSS

📅 Due date: June 27th, 11:59 PM 📅

Portfolio Website

INTRODUCTION

When we meet someone professionally, we introduce ourselves, we tell them about our skills, experiences, etc. What if we do it with the help of a website? Here comes the role of portfolio website. A portfolio website is an ultimate way to introduce yourself, showcase your work, skills, and blogs and let others reach out to you. Your task in this first assignment will be to design your own portfolio website with bright and appealing visuals that will convince visitors to look for more details. You have to use only HTML and CSS for this portfolio web-page.

SECTIONS OF THE WEBSITE

The first step is to think about all the sections needed in your portfolio website. Most important sections are mentioned here:

1. Intro section
2. My Projects
3. Skills Achievements
4. Contact me

The website is a single page website (all mentioned sections will be on the same page).

ELABORATING SECTIONS

1. INTRO SECTION

Navbar

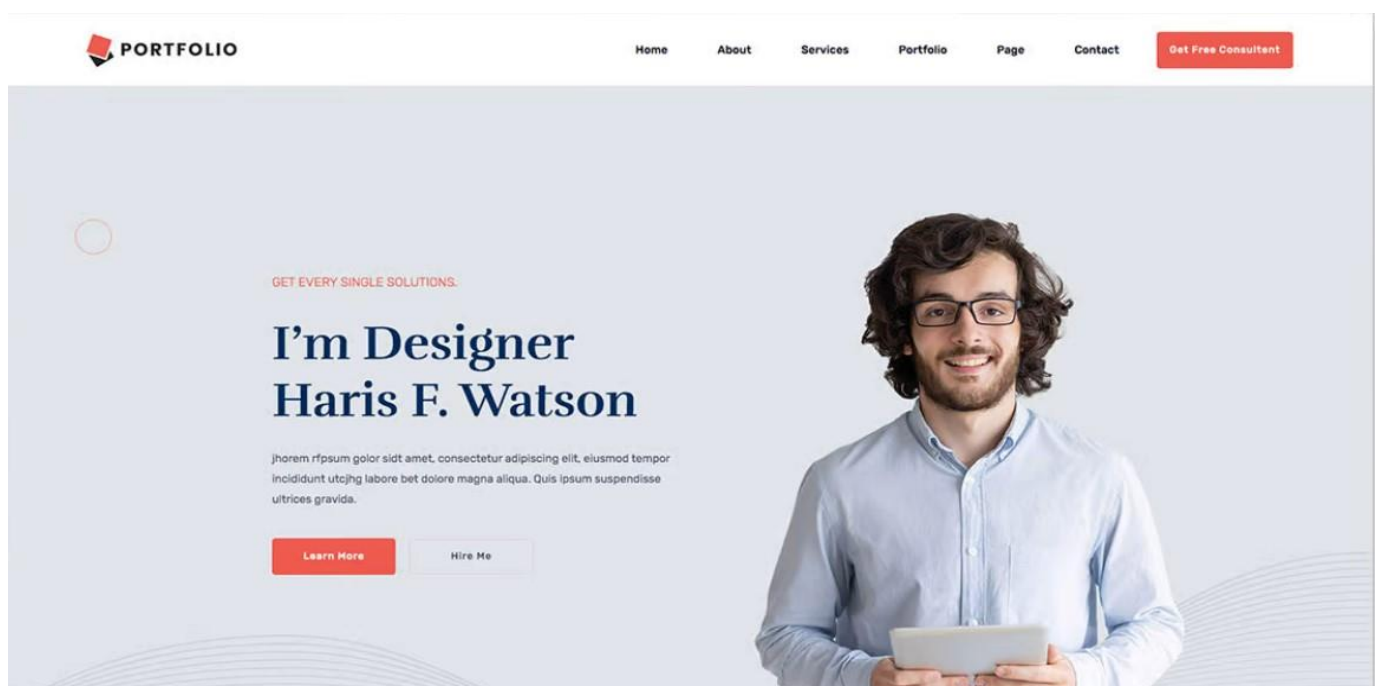
Your website's navigation bar is often the first touchpoint your visitors will interact with, so it's crucial to ensure your navigation bar is as helpful and engaging as possible.

- Navigation Bar will have links to the various sections that will redirect visitors to the different sections of the Page.
- Make sure that when a link is clicked it should scroll smoothly to that section on the website. Navbar should be fixed at its position even after scrolling, add a portfolio logo at the left of navbar, and use hover effects to decorate links.

Home Page

This page should be in two parts: left side you have to give your brief introduction and tagline, (example: hello my name is XYZ, I am a web developer) design the fonts size, family, weight in such a way that it looks attractive also add a 'contact me' button on the left part that takes you to the contact me section explained later in the assignment, and right part should have your photo (*) both sides should be arranged properly.

*If you need image a without any background you may use [this](#) (male), or [this](#) (female).

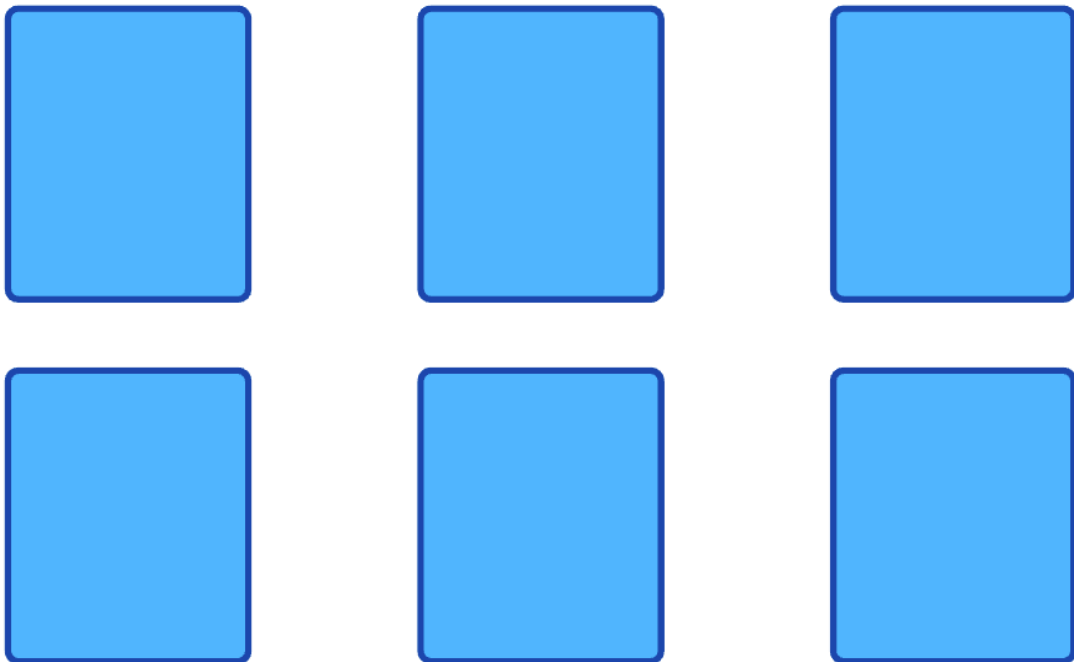


(This is a demo image taken from Google, don't completely copy it)

2. MY PROJECTS SECTION

In this section, you have to present your skills and achievements in card format, specifically designed to help you master CSS Flexbox.

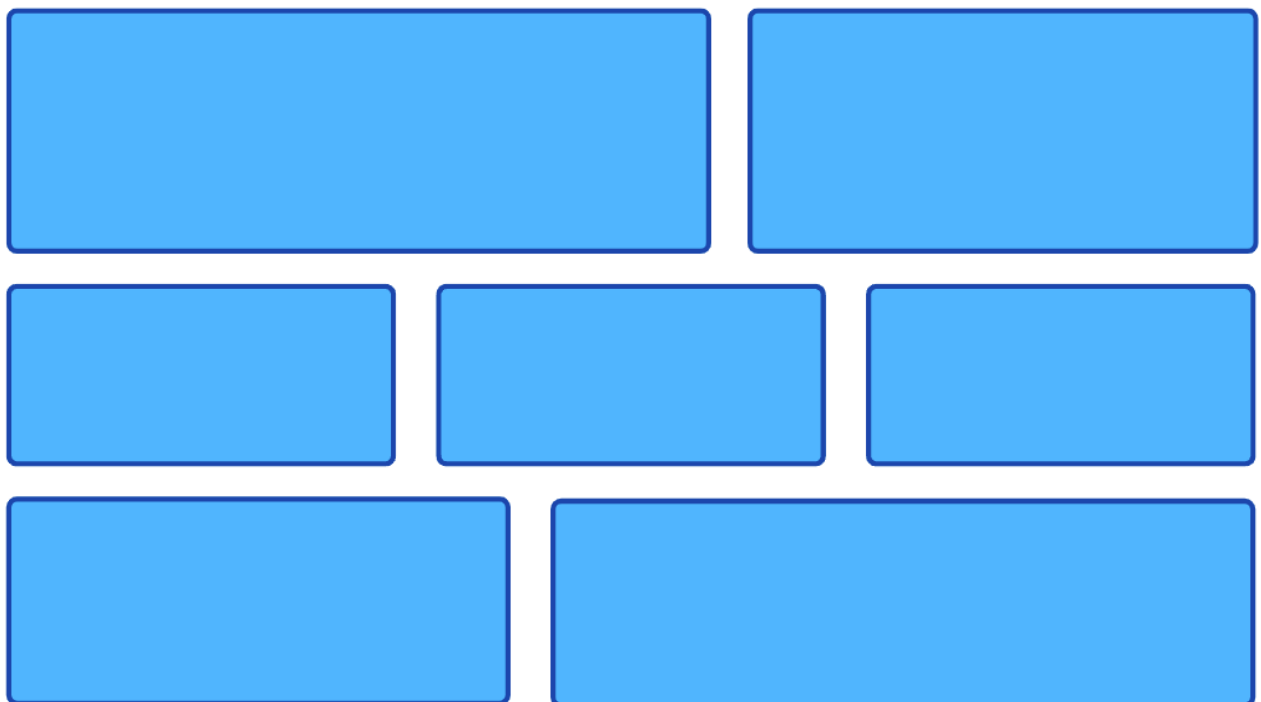
- This section should have the title as "My Projects" with an attractive subtitle of your choice.
- Every project card should have an image, title of the project, then a button which is named "Visit->" when this button is clicked, the color of the button should change.
Optional: On clicking, along with changing the color of the button, change the text on button from "Visit->" to "Visited".
- Add a hovering effect on each card. The color of the text must change on hovering the card.
- You should create 6 cards in this section (3 in a row) in an arrangement as shown in the picture below.
- The cards must be made [using CSS Flexbox only \(CSS Grid is not allowed\)](#).



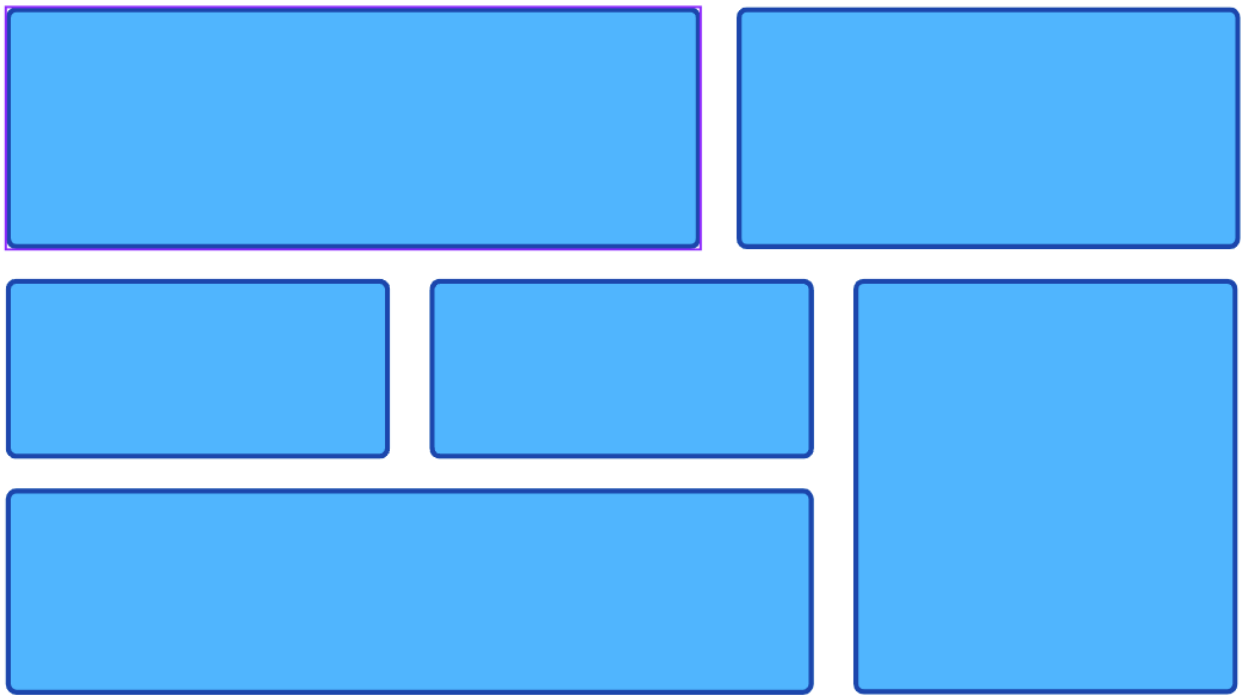
3. SKILLS & ACHIEVEMENTS SECTION

In this section, you have to create cards strictly with [CSS Grid only](#).

- This section should have the title as 'My Skills & Achievements' with an attractive subtitle of your choice.
- Every skill card should have an image (or icon), its title (name of the skill), and a very short paragraph describing the skill and its importance (you can use lorem ipsum here).
- When these cards are hovered upon, the background color and text color of the hovered cards should change. You can also try to add some other interesting hover effects of your choice, like enlarging cards or making text appear on hover.
- You have to arrange 6 cards in the way as shown in the picture. If you don't feel comfortable with CSS Grid, don't worry, try doing it the easy way.



Easy Way (Notice both height & width vary in each row)

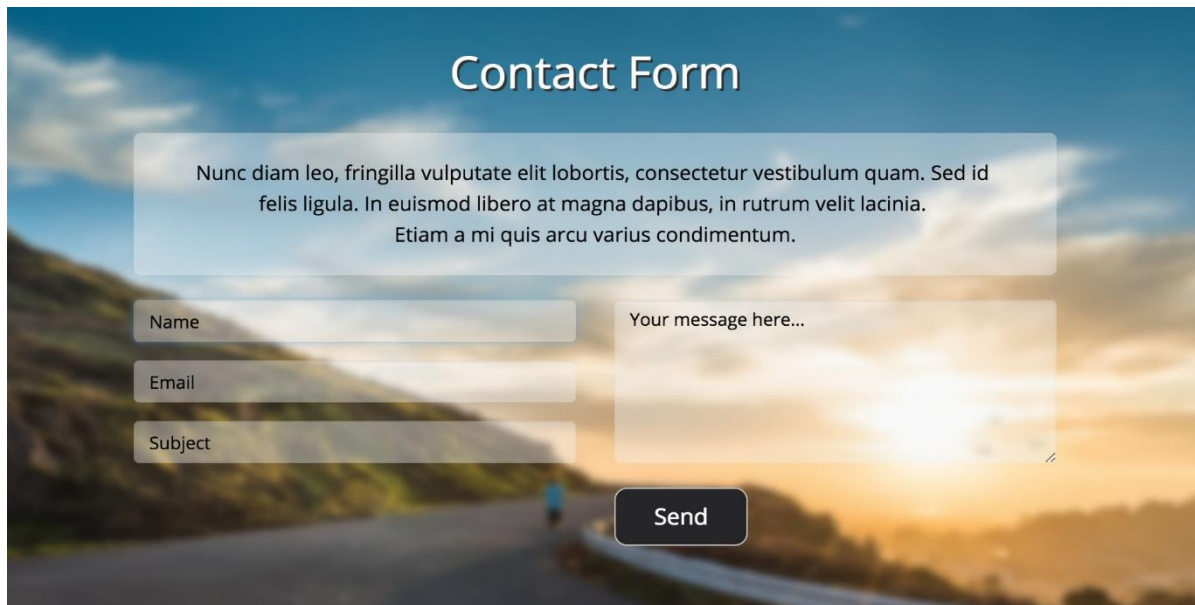


Hard Way

4. CONTACT ME SECTION

Let's say a visitor of your page finds your skills, blogs interesting and wants to contact you. Here comes the role of this section. We will provide a form on the webpage where they can give their details for us to contact them.

- Whole page should have a proper background image
- CONTACT FORM should have input space for name, email id, date for appointment, message and then a submit button. Since we are working with just HTML and CSS, the form is not supposed to work for now. Nothing is expected to happen on clicking the submit button in form. We will learn about form handling and connecting with the backend later in the workshop.
- Input tags should be styled with proper border radius, font style, color. Form should be given with proper opacity so text looks clear even in presence of background image.



(This is just a demo image)

Responsiveness

As a number of different devices keep coming up, the variety of screen types and screen sizes are keep increasing. As a developer, it is important to make sure that the website UI is just as properly formatted, well proportional and usable, on each screen ranging from mobile phones to tablets to laptops to monitor screens and all the different available screen sizes within these as well.

Now, if we start testing and modifying our website for each of the commercially available screen sizes, then that won't be feasible at all. This is where responsiveness comes into play. It helps in making sure that the website does not break (overflowing texts, overlapping components, too tightly packed content or too much blank space, unnecessary scrollbars and so on) for a large range of screen sizes.

After developing the website for your laptop screen, try to make it responsive. Learn the different ways to make each of the different types of components in a website responsive. Understand and choose the ways which fit your application and implement them after completing your webpage. Learning how to use media queries is very critical to make a website responsive.

You may want to create a number of breakpoints in your website, but it is recommended to use breakpoints only when you want to change the structuring of the content. For other cases, try using responsive units: rem, %, vh, vw, etc. for dimensions and position, and rem, em for font sizes. Using grid and flexbox wherever possible and playing around with their properties can lead to very highly responsive components.

At this point, you aren't expected to come up with perfectly responsive webpage in your first try. Just try to add as much responsiveness as you can.

Important Instructions:

- * Do not use javascript or any language other than HTML and CSS. Usage of bootstrap, material-ui or any other template or framework is not allowed.
- * Most importantly, DO NOT COPY THE CODE from anywhere AT ALL. We know you're about to complete two completely online semesters (iykyk), but just don't. We won't be releasing any grade cards at the end of the workshop. Whatever you do in these assignments, stays between you and us. So, just use this opportunity to learn and improve. As for the SF Tech Team selections, copying isn't going to get you anywhere...because we'll know.
- * While writing CSS, don't limit yourself to just using pixels (px) as a measurement unit. Read about other units like rem, em, %, vh, vw and understand how using particular units in particular places can help you design better and make your website highly responsive.
- * Try to add interesting animations, creative styling and pattern wherever you can. Also, try to choose your color combinations wisely and make sure that your website looks neat with proper spacing, alignment and sizing of all components (we're talking margins and padding). Show off those creative and artistic skill!
- * We understand a lot of you would be starting from scratch with no or minimal prior knowledge of HTML or CSS. So, the assignment might look a bit overwhelming at first glance and that is fine. Don't think about the website as a whole, rather focus on one section at a time. Start building and working upon the components in each section one-by-one. Slowly, seeing the sections come to life visually should motivate you to go further. Also, it's okay if you're not able to fully complete the assignment. Try to do as much as you can in the given time.
- * Lastly, web development is a vastly interesting and highly sought-after field that can open up plethora of opportunities for you, in web dev as well as other software domains. With everything shifting online and digital, the demand for skilled and proficient developers is enormous. And this is your chance to get a head-start in this widely potential field. So, give it your best shot because who knows where it might lead you to.

