CMPS 350 Web Development Fundamentals Lab 4 – CSS Layout

Objective

Practice using CSS grid, flexbox and media queries to develop responsive page layouts.

At the end of the Lab, complete the testing document then sync your repo to push your work to GitHub.

Part A - Page Layout using Grid and Flexbox

- 1. Get the **Lab4-CSS** repo from https://github.com/cmps350s22/Lab repo and copy it to your private repository.
- 2. Complete the following four exercises to practice page layout using grid and flexbox.

Exercise 1 – Page Layout using CSS Grid

- First review the Grid basic concepts using the lecture slides. Summary of grid properties is available at http://grid.malven.co
 - Then visit this https://www.w3schools.com/css/css grid.asp and go through the tutorials to understand how the grid works.
- Create the following layout shown in Figure 1 using a grid and media queries. You should use the world-cup-2022.html file provided in the lab folder.



Figure 1: Layout Design using CSS Grid

LIVING2020.COM

Home Registration Stadiums Contact us

World Cup Qatar 2022

Where dreams become reality



Buy Ticket

Exercise 2 - Navigation menu using Flexbox

Style the navigation layout using flexbox and make it responsive. Open **nav-layout.html** and style the menu as shown in Figure. Start with mobile first vertical layout. When the screen width is more than 60rem, make the layout of the menu horizontal.





Smaller Screen

Larger screen

Figure 2: Responsive menu

Exercise 3 – Form Layout using a Grid

Style **contact.html** form using a grid to deliver a responsible form as shown in Figure 3 (notice the input labels placed above the inputs for a small screen).

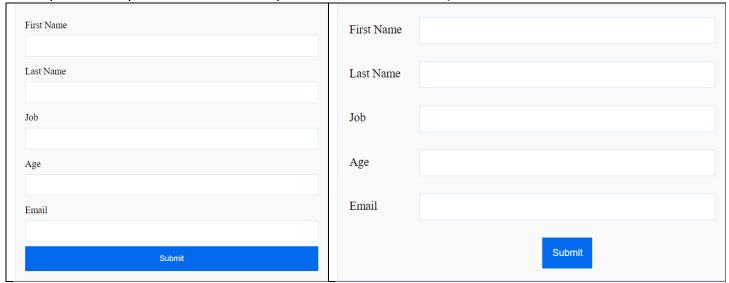


Figure 3: Responsive form

Exercise 4 - RAM (Repeat, Auto, Minmax)

Style the **products.html** page using flexbox (to style the product **card**) and grid & RAM pattern to create a responsive layout with auto-created grid columns and automatically placed children (as shown in Figure 4).

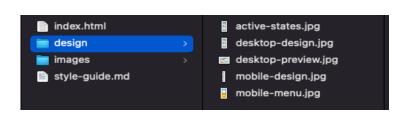


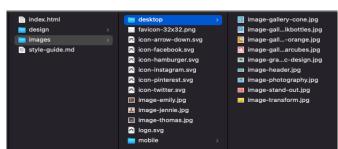


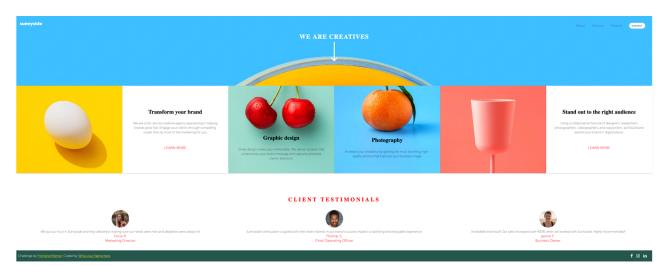
Figure 4: Responsive grid of product cards

PART B – Practice Responsive Web Design

The below is a challenge from <u>frontend-mentor</u> for you to practice. The user should be able to view the optimal layout for the site depending on their device's screen size. All the files needed for the exercise are provided to you in **Lab4-CSS** from the Lab repo, including the design files and a read me file that explains the type of fonts used and the colors.







Large Screen - Very wide



CLIENT TESTIMONIALS

Desktop

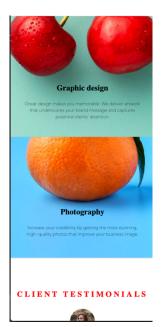
surnyside's enthusiasm coupled with their level increases increases the satisfying and enjoyable experience. Thomas S. Chief Operating Officer Incredible end result! Our sales increases 400% when we worked with Surnyside. Increases increases a satisfying and enjoyable experience. Thomas S. Chief Operating Officer Business Owner

Challenge by <u>Frontend Mentor</u>. Coded by <u>Write your Name here</u>.

f @ in









On Smaller devices < 60rem