

# CMPS 350 Web Development Fundamentals

## Lab 4 – CSS Fundamentals – Part 2

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### Objective

By the end of the lab you should be able to use:

- CSS grid, flexbox and media queries to develop responsive web page layouts
- Font Awesome to create icons
- Custom fonts to style your text

### Preparation

1. Get the **Lab4-CSS 2** repo from <https://github.com/cmeps350s22/Lab> repo and copy it to your private repository
2. Open the **Lab4-CSS-Exercices** folder available under the **Lab4-CSS** in **WebStorm**. The folder has four projects named exercise1, exercise2, exercise3 and challenge.
3. 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. More grid properties are available at <http://grid.malven.co> and <https://css-tricks.com/snippets/css/complete-guide-grid/>  
Then visit this [https://www.w3schools.com/css/css\\_grid.asp](https://www.w3schools.com/css/css_grid.asp) and go through the tutorials to understand how the grid works.
- Create the following layouts using the grid and media queries. You should use the exercise1 project provided in the lab folder.



Figure 1 : Layout Design using CSS Grid

## Exercise 2 - Navigation using Flexbox

Style the navigation layout using flexbox and make it responsive. Open index-exe2.html and try to style the menu of the page as follows. When the screen is more than 60rem, make the layout of the menu horizontal. Otherwise, make it vertical as shown below.



Larger screen



Smaller Screen

## Exercise 3 – Form Layout using a Grid

Open exercise 3 index.html and add the styling.

First Name	<input type="text"/>
Last Name	<input type="text"/>
Job	<input type="text"/>
Age	<input type="text"/>
Email	<input type="text"/>
<input type="submit" value="Submit"/>	

## Exercise 4 – Social Media Icons using Font Awesome

Add the following icons to the footer of the **exercise index.html** page

**FOLLOW ME ON SOCIAL MEDIA**



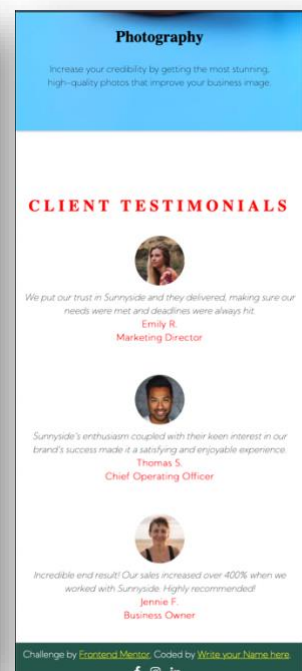
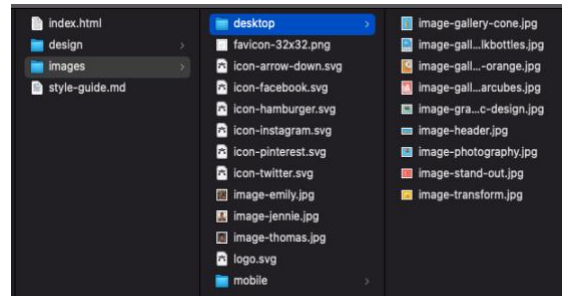
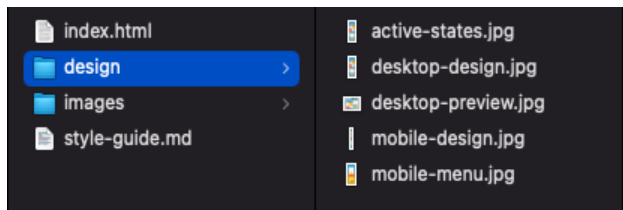
- First add the font awesome CDN to your web-page  
<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.7.0/css/all.css">
- Search the desired icons at <https://fontawesome.com/icons>

## Practice Challenge

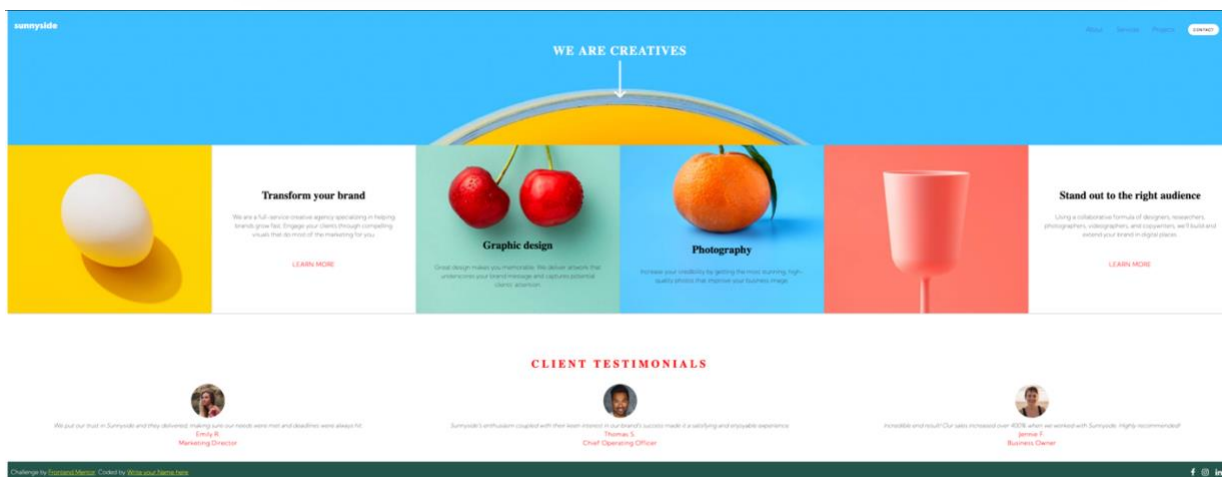
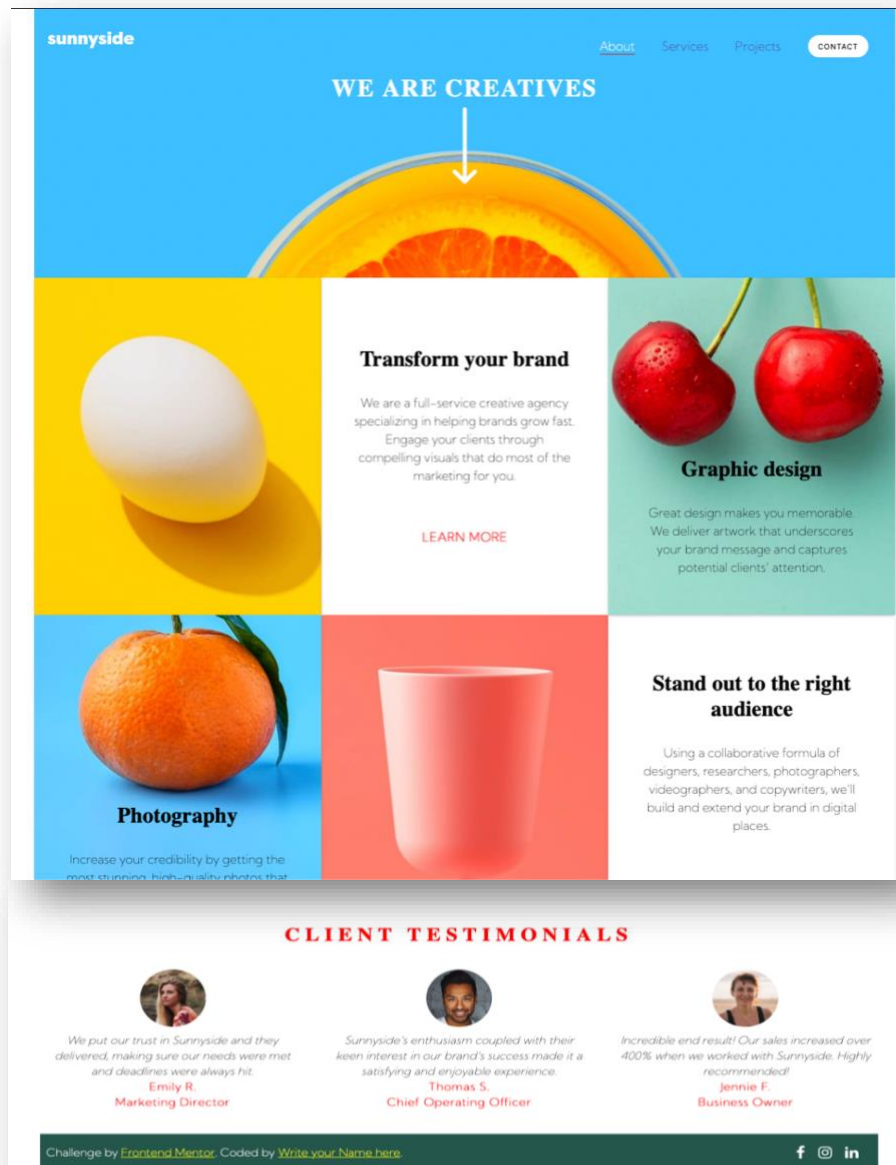
The below is a challenge adopted from frontend-mentor for you to practice. The user should be able to view the optimal layout for the site depending on their device's screen size.

All the files needed for the exercise are given to you, including the **design files**, **fonts**, **Colors** and a read me file that explains everything in details.

One you complete the challenge , push your code to your github.



On Smaller devices < 60rem



Large Screen – Very wide