CMPS 350 Web Development Fundamentals
Lab 3 – CSS Fundamentals

Objective

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

- ✓ Add internal and external **CSS styles** to your HTML pages.
- ✓ Differentiate and use important CSS **selectors, properties and values.**
- ✓ Use colours and images to style your pages.
- ✓ Explain and use the box model to style **margins** and **paddings**
- ✓ Use the flexbox and media queries to develop responsive web page layouts and forms.

Overview

This lab has 2 parts:

- **In Part A**, you will use vanilla CSS to style elements on a web page.
- **In PART B,** you develop a complete website using the concepts that you practiced in part A

First sync your **cmps350s21/repository** using **GitHub Desktop** Client. Create a subfolder named "**Lab3-CSS**" inside the local working folder of your repository. You need to place your work in **Lab3-CSS** folder. At the end of the Lab, complete the testing document then sync your repo to push your work to GitHub.

Part A – Basic CSS -Tutorial

1. Get the Lab3-CSS folder from the course github repo and copy it to your private repository
2. Open the **Lab3-CSS/Project** folder using **Webstorm**.
3. The folder contains a two files [**index.hml,contact-us.html**]
4. Create styles.css file under a folder named "styles" inside Lab3-CSS folder. We will be using these files to practice the following concepts
    a. Linking style sheet to your html page (Internal Stylesheet, External Stylesheet, Cascading Order ,Inline)

    https://www.w3schools.com/css/css_howto.asp

    ➔**Exercise : Complete the four exercise in the following link**
    https://www.w3schools.com/css/exercise.asp?filename=exercise_howto1

    b. CSS-Syntax [selector {Property : value}]
    https://www.w3schools.com/css/css_syntax.asp

➔**Exercise : Complete the four exercise in the following link**
https://www.w3schools.com/css/exercise.asp?filename=exercise_syntax1

c. Border, Margins , Padding and the box model
https://www.w3schools.com/css/css_border.asp

➔**Exercise : Complete the four exercise in the following link**
https://www.w3schools.com/css/exercise.asp?filename=exercise_border1

d. Text styling https://www.w3schools.com/css/css_text.asp

➔**Exercise : Complete the four exercise in the following link**
https://www.w3schools.com/css/exercise.asp?filename=exercise_text1

e. Pseudo Classes [a: link , visited , hover , focus , active]
https://www.w3schools.com/css/css_pseudo_classes.asp

➔**Exercise : Complete the four exercise in the following link**
https://www.w3schools.com/css/exercise.asp?filename=exercise_text1

f. Background [attachment , color , image , position , repeat]
https://www.w3schools.com/css/css_background.asp

➔**Exercise : Complete the four exercise in the following link**
https://www.w3schools.com/css/exercise.asp?filename=exercise_background1

g. Media Quries https://www.w3schools.com/css/css_rwd_mediaqueries.asp

h. Flex-Box https://css-tricks.com/snippets/css/a-guide-to-flexbox/ Play this game -> https://flexboxfroggy.com

i. Font Awesome ->
https://www.w3schools.com/icons/fontawesome_icons_text.asp

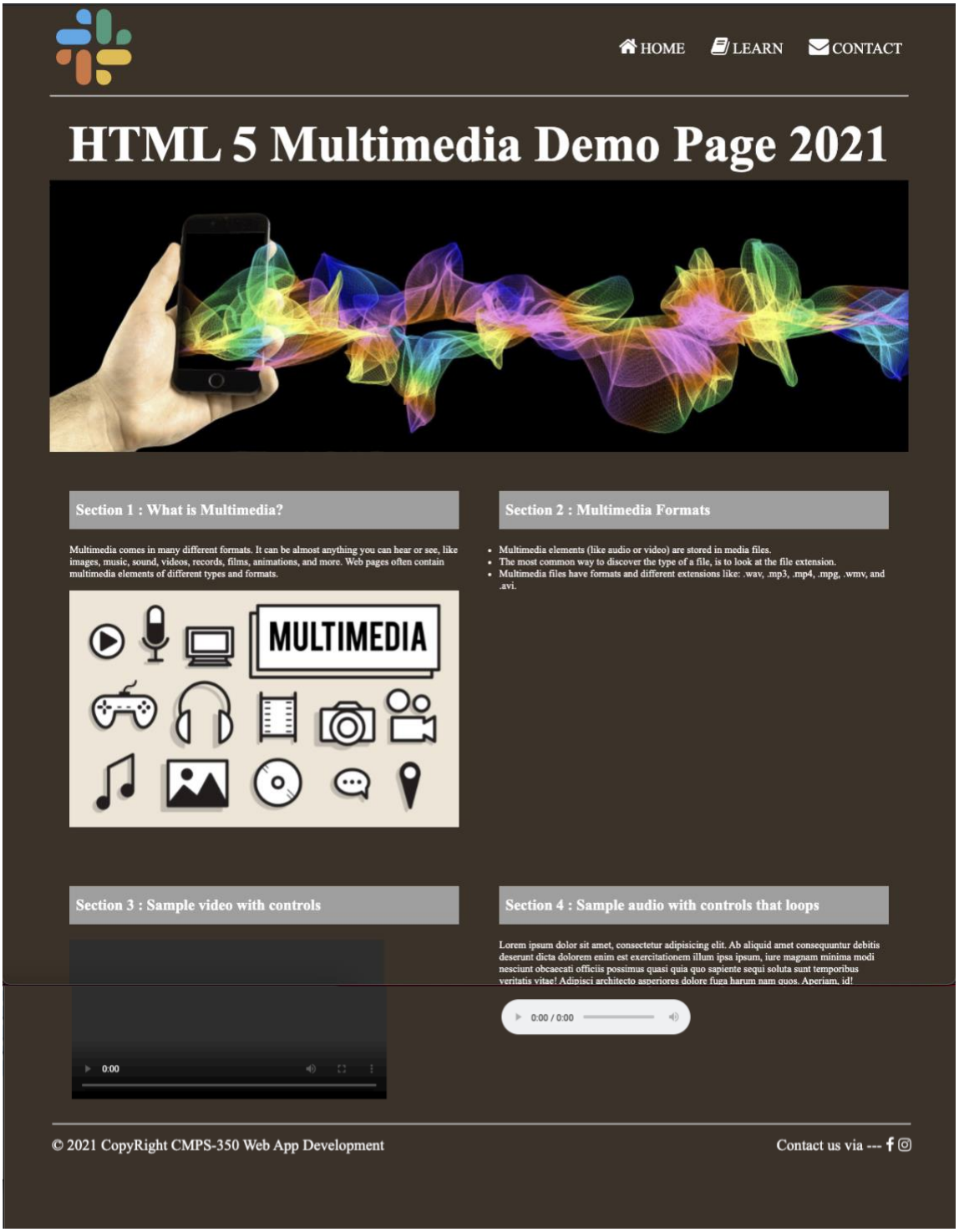
You can use the following links to further practice

➔https://www.w3schools.com/css/default.asp

➔ https://htmlcheatsheet.com/css/

Part B – Practice

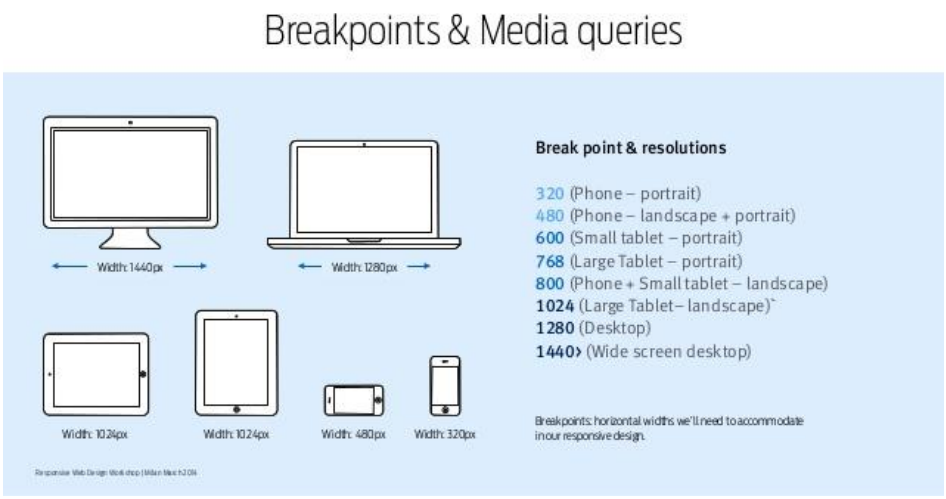
You will be give the HTML code for the below webpages. Your task is to style according to the figures shown below.

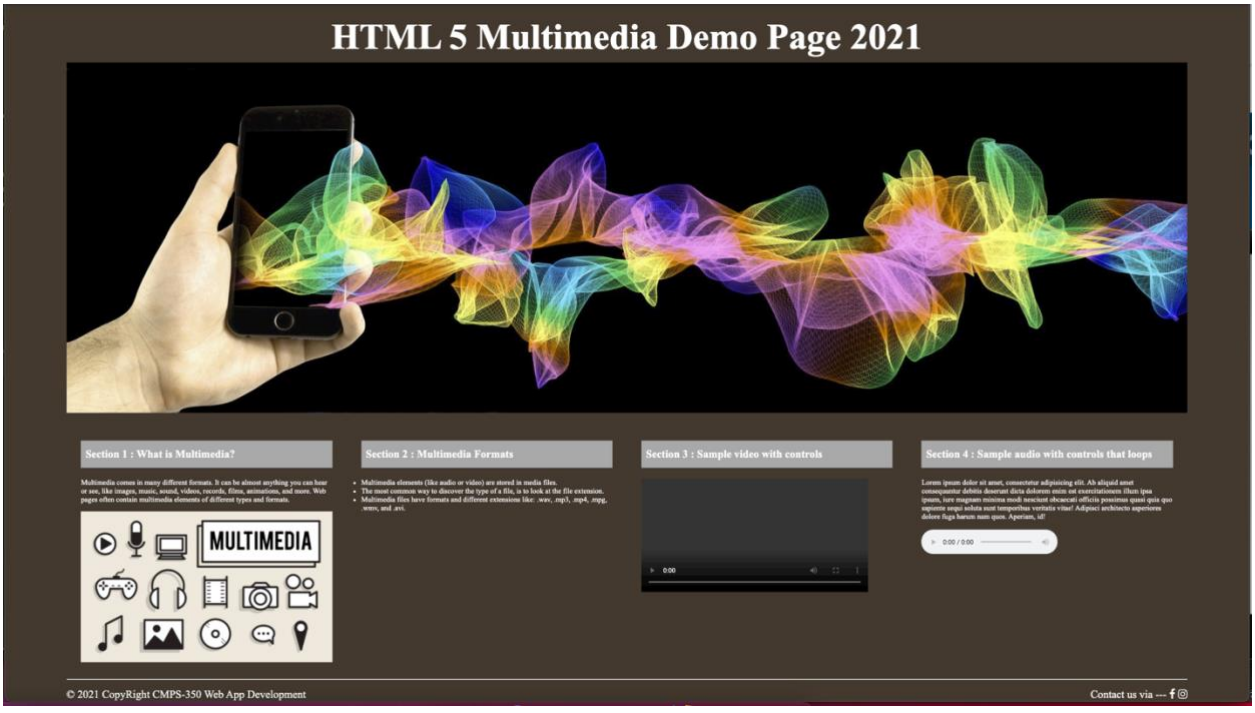


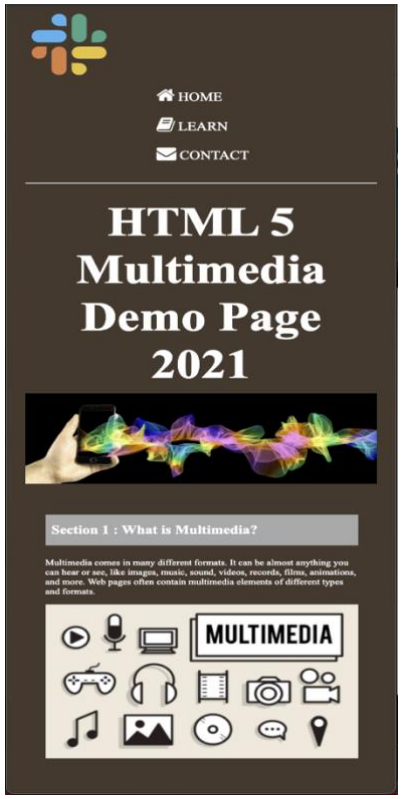
Responsive web design using Media Queries

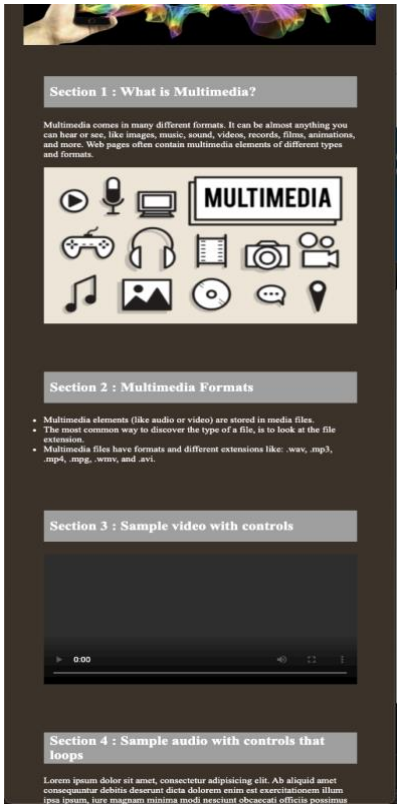
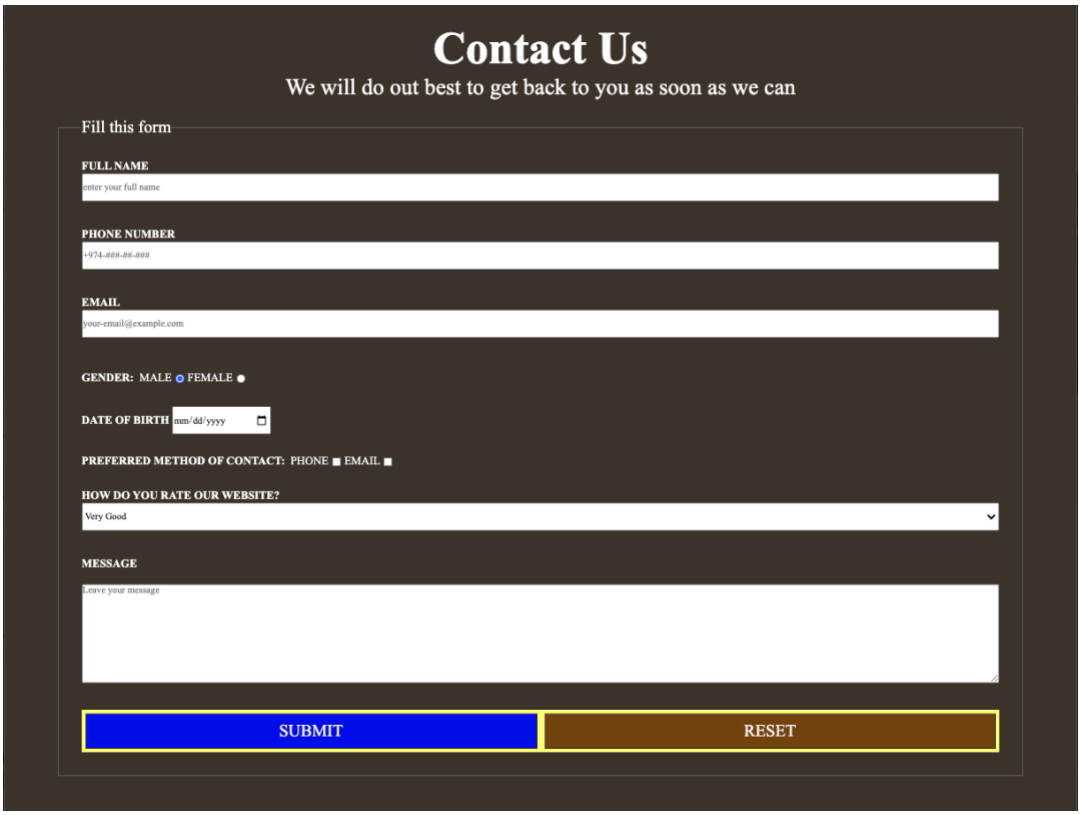
Media queries help us detect different screen sizes and allow us to adopt our layouts accordingly. In the following we will see how we can utilize them to make our website responsive.

Media Queries - `@media screen and (max-width: 992px)`









➔Style the contact-us form as follows. You should create a separate sheet for the contact us form.