CMPS 356 Enterprise Application Development
Lab 3 – CSS Fundamentals – Part 2

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

First sync your cmps356 repository using **GitHub Desktop** Client. Create two subfolders named **Lab3-CSS-Tutorial** and **Lab3-QuBook** inside the local working folder of your repository. At the end of the Lab, complete the testing document then sync your repo to push your work to GitHub.

Part A - Page Layout Tutorial using Grid and Flexbox

1. Get the **Lab3-CSS** repo from https://github.com/cmps356s19/cmps356-content/tree/master/Labs repo and copy it to your private repository
2. Open the **Lab3-CSS-Tutorial** folder available under the **Lab3-CSS** in **WebStorm**. The project has two HTML pages: **index.html** and **registration.html**.
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 and go through the tutorials to understand how the grid works.

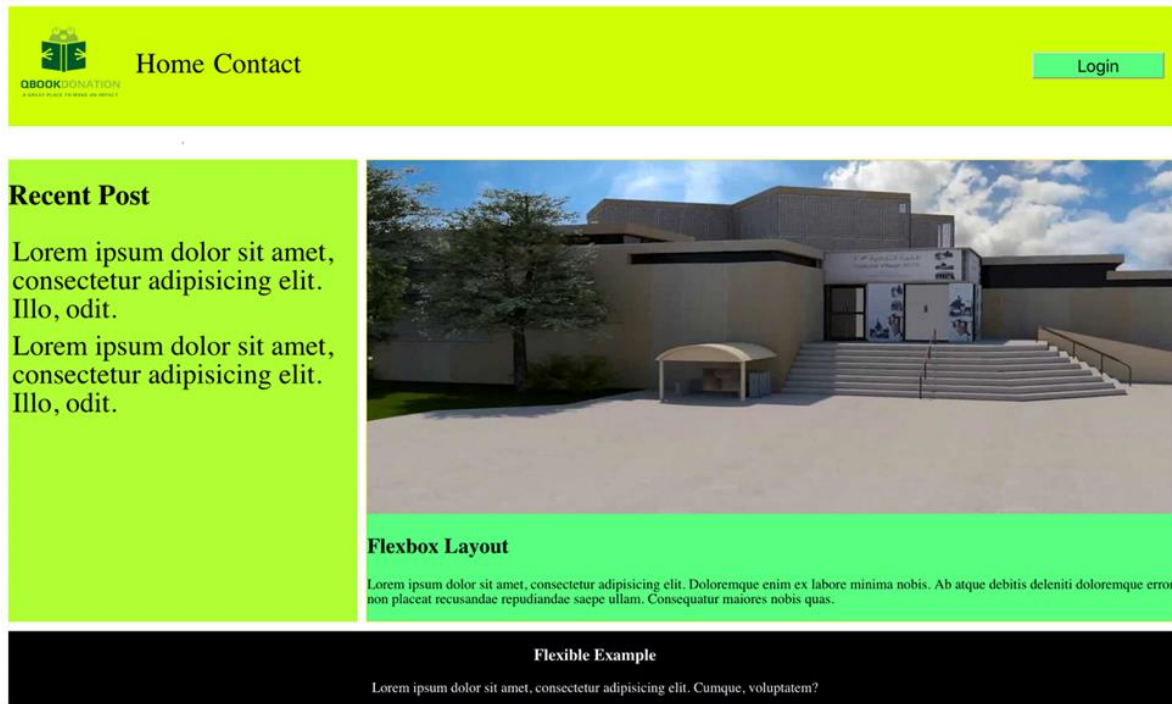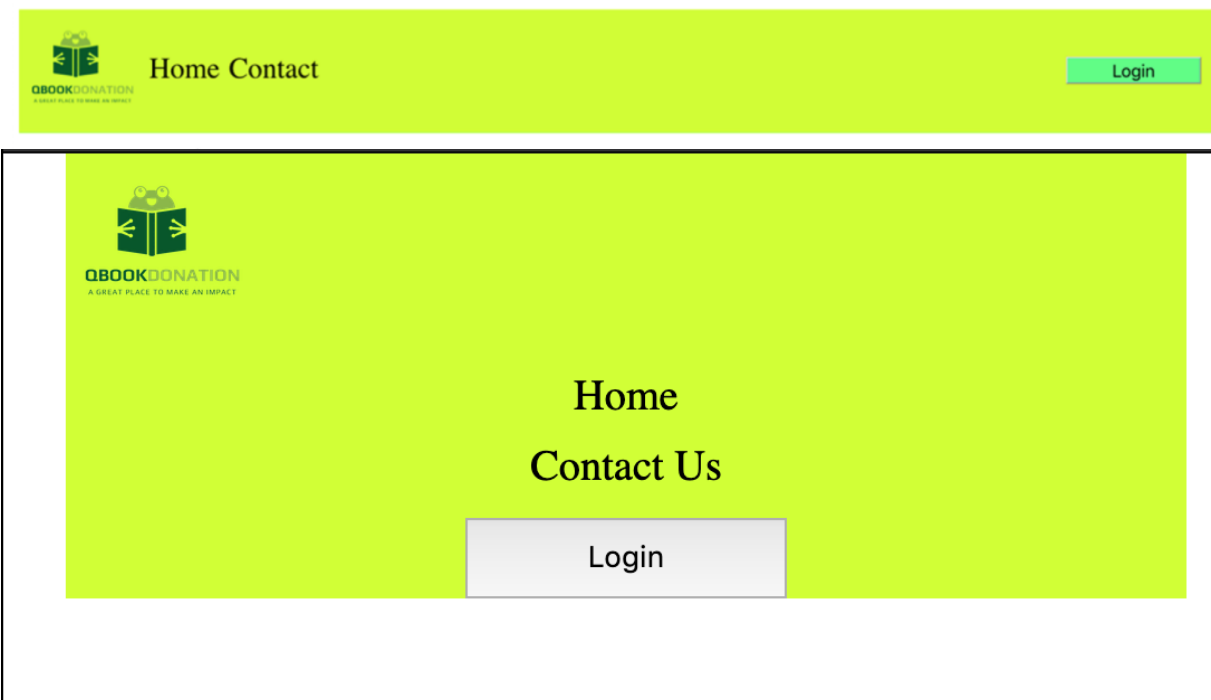- Create the following layouts using the grid. You should use the index.html provided in the lab folder.

Figure 1 : Layout Design using CSS Grid

Exercise 2 - Navigation using Flexbox

Create the navigation layout using flexbox and make it responsive.

Exercise 3 – Form Layout using a Grid

Create the following form using grid.

Exercise 4 – Social Media Icons using Font Awsome

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

- 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

Part B – QU Book Donation
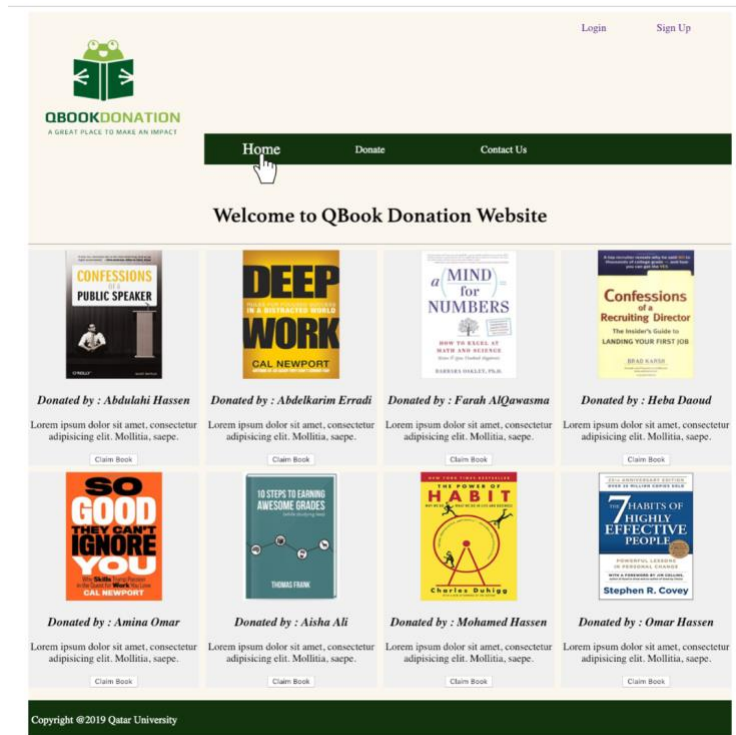
Deadline 5pm 1 Day before your next Lab

This project is the same as Lab 2 with these minor changes:

- Use the grid and media queries to define a responsive page layout and the form layout
- Use flexbox when appropriate to define the **layout of the book cards**, and **the navigation of the page.**
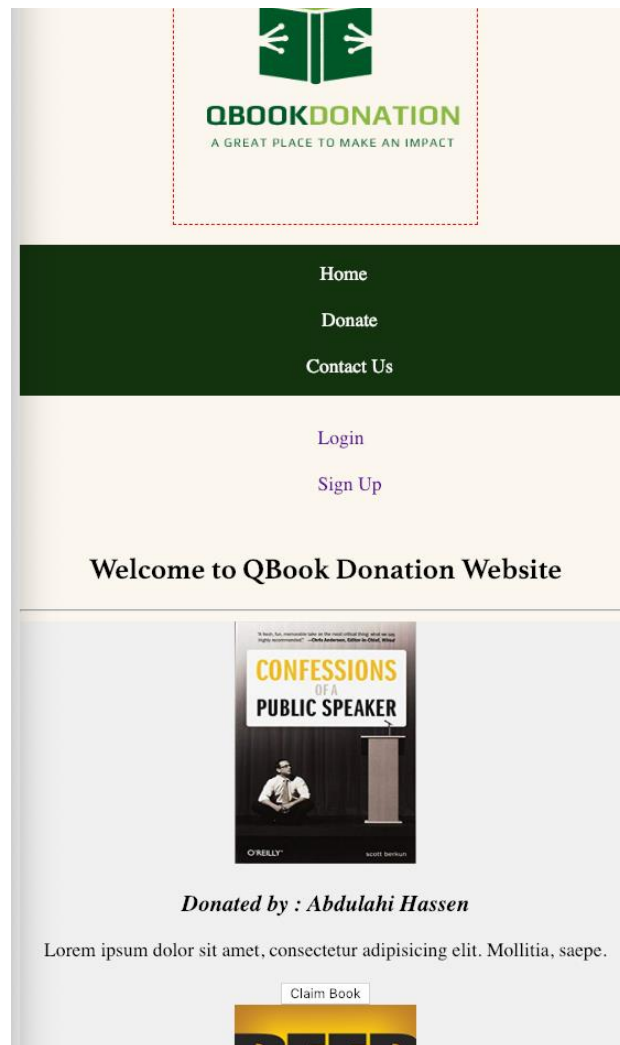- Use font-awsome to add icons to the website

Detail Description of the Website

1. Create a project named QuBook
2. Create the following pages
   a. Home
   b. Donate
   c. Contact Us
   d. Login
   e. Sign Up
3. All the pages should resemble the images shown
4. You should use to achieve the described layouts

Home Page on Bigger Devices

Home Page on Smaller Devices

Contact Us Page

For other two pages [**Login and Donation**] you need to come up with your own design. However, make sure you use grids for page layout and media queiries to handle responsiveness.

After you complete the lab:
1. Fill in the *Lab2-3-TestingDoc-Grading-Sheet.docx* and save it inside *Lab2-CSS* folder
2. Sync your repository to push your work to Github.