# 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.

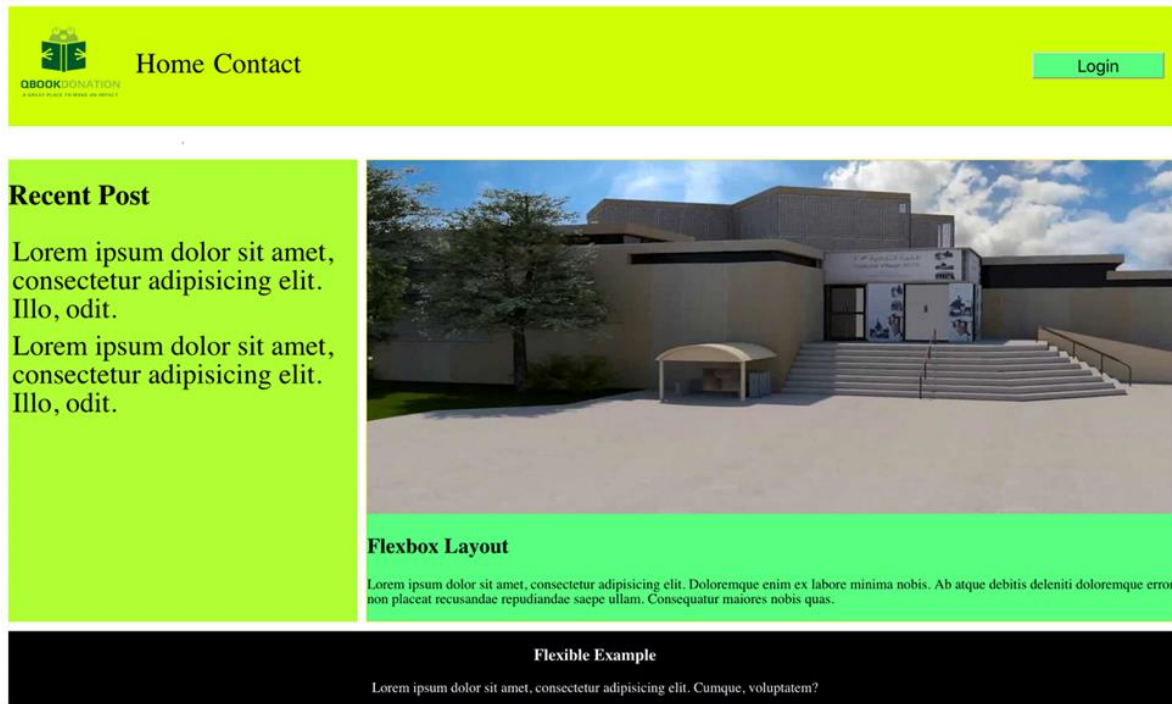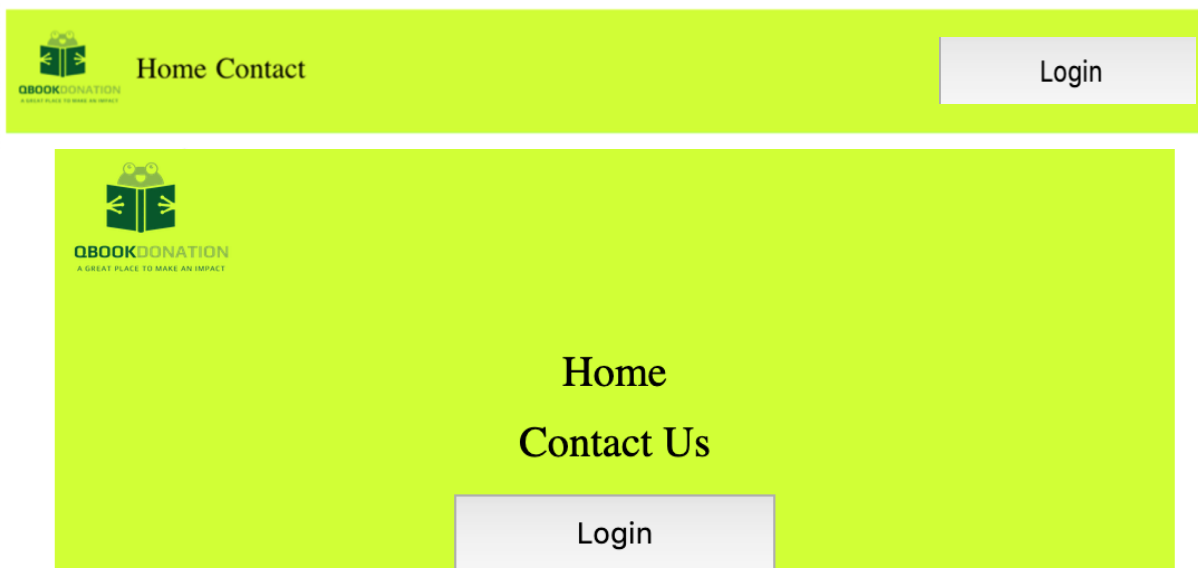- Create the following layouts using the grid. You should use the index.html provided in the lab folder.

*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.

| | |
|---|---|
| First Name | [                    ] |
| Last Name | [                    ] |
| Job | [                    ] |
| Age | [                    ] |
| Email | [                    ] |
| | Submit |

**Exercise 4 – Social Media Icons using Font Awsome**
Add the following icons to the footer of the **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

# Part B – QU Book Donation
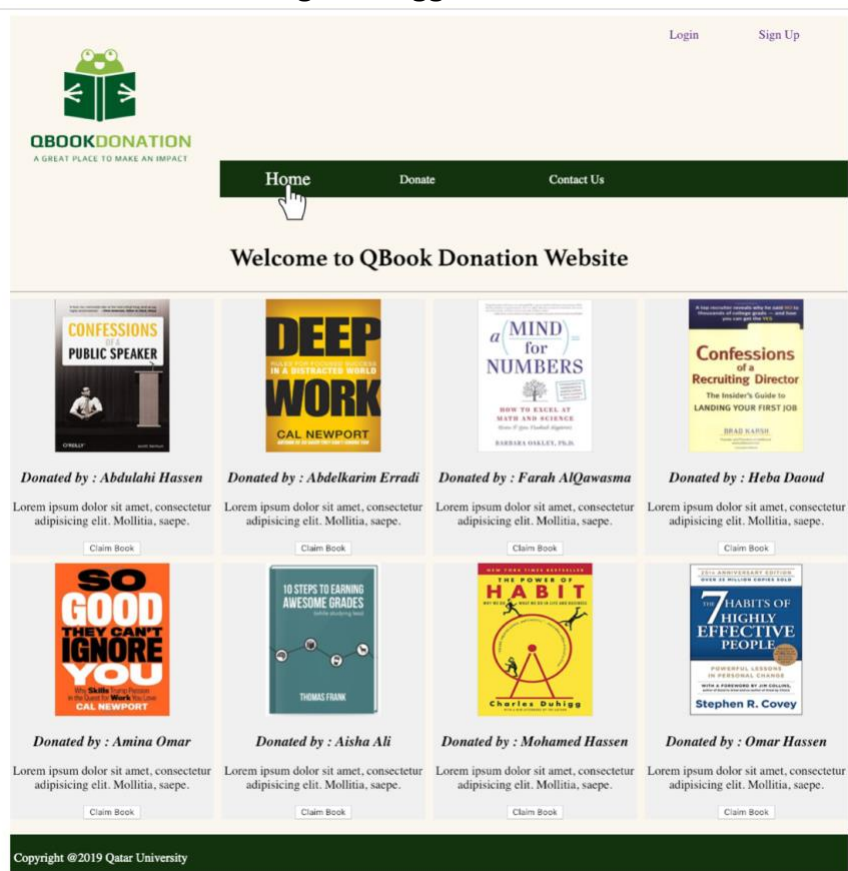
# Deadline 11:59pm 1 Day before your next Lab

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.**
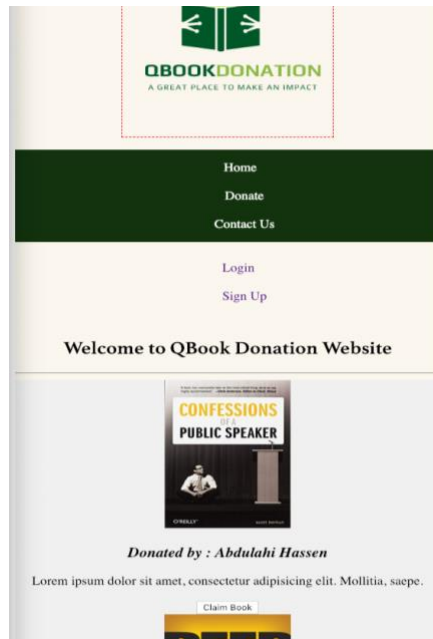- Use font-awesome to add icons to the website

Detail Description of the Website

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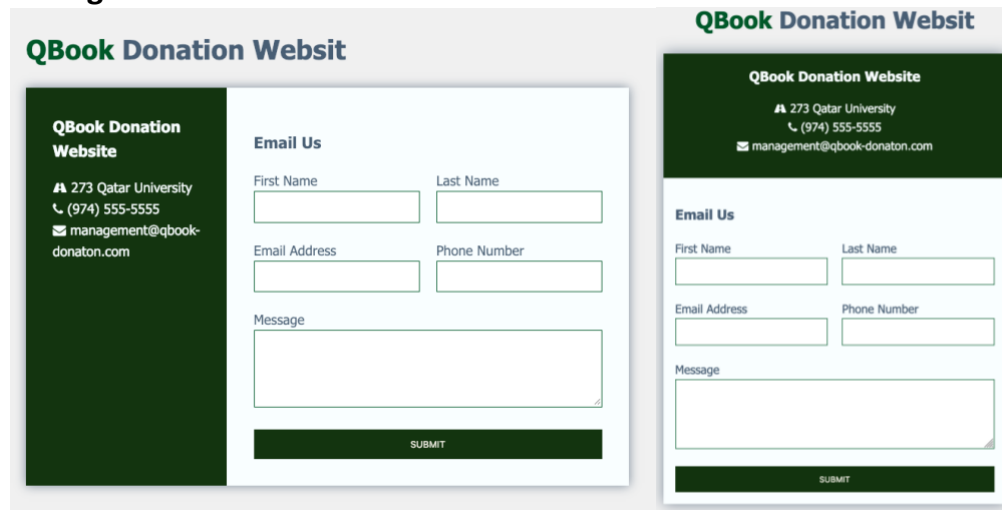4. You should use to achieve the described layouts

### 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.