

# CMPS 356 Enterprise Application Development

## Lab 3 – 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

First sync your cmips356 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/cmips356s19/cmips356-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](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.

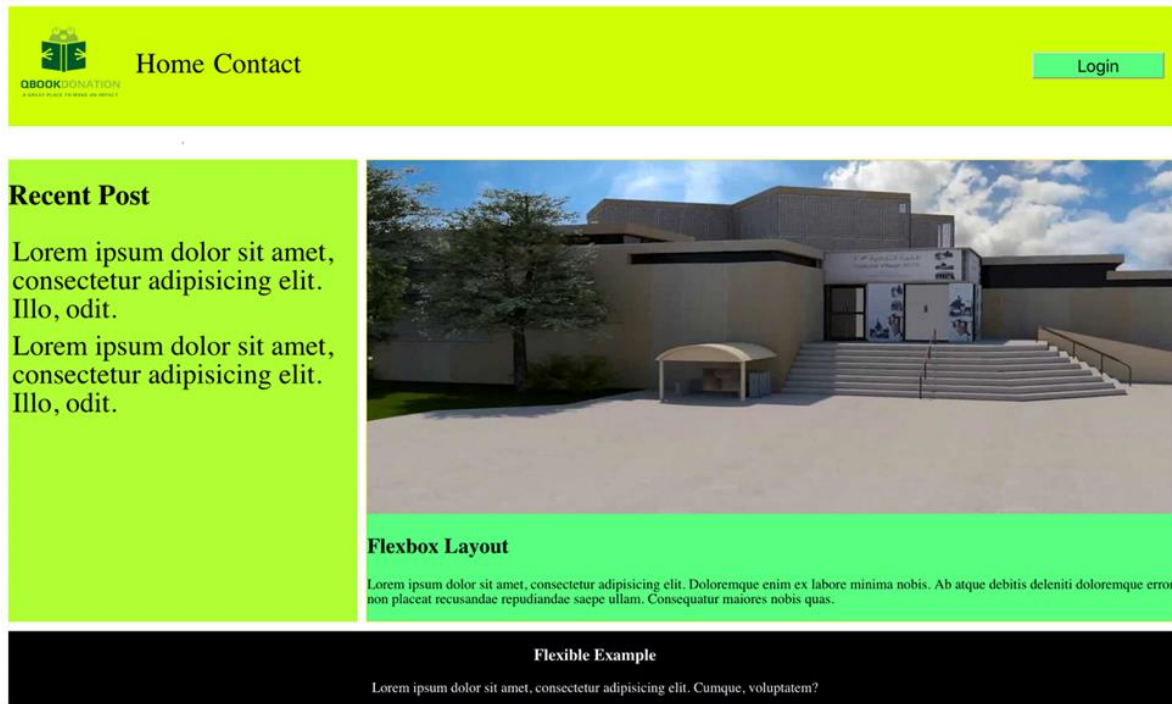
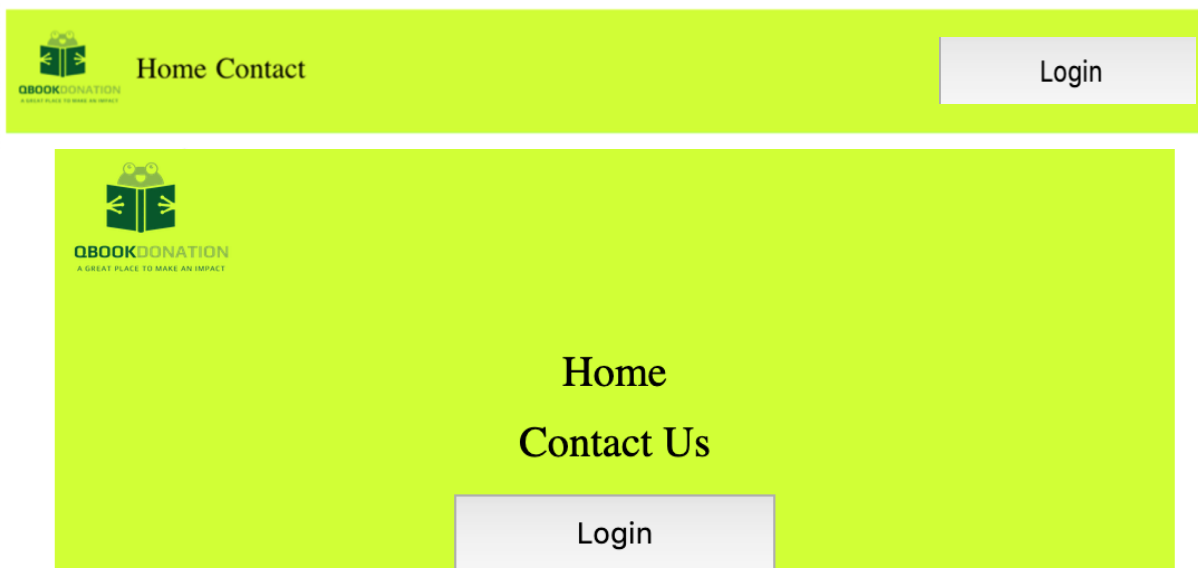


Figure 1 : Layout Design using CSS Grid

## 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	<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 **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

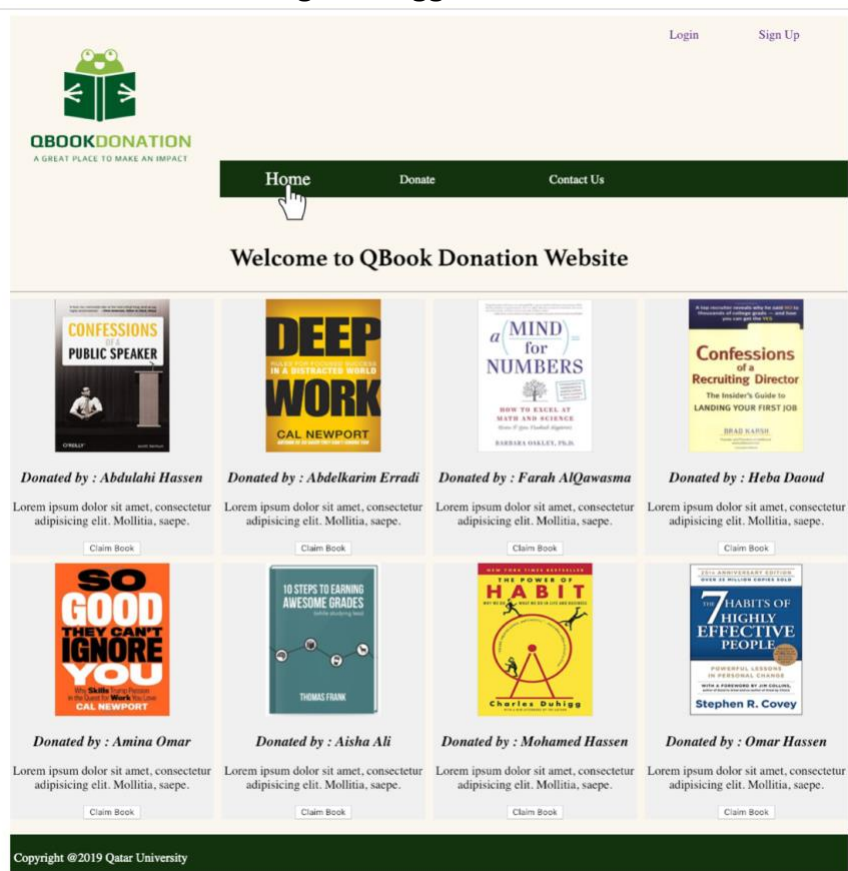
This project is the same as Lab 2 with these minor changes:

- 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

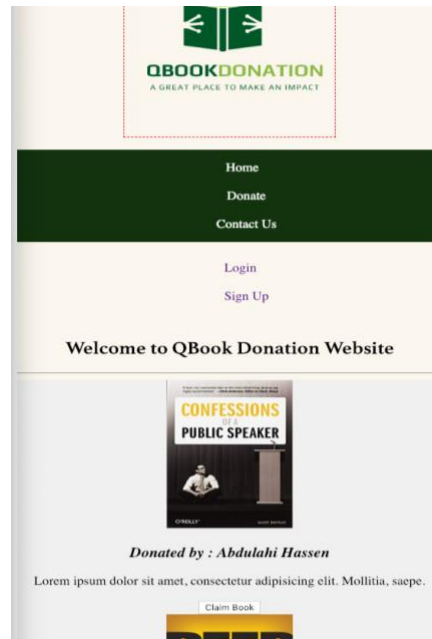
#### Detail Description of the Website

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

The screenshot shows the contact page of the QBook Donation Website. The page has a dark green sidebar on the left with the website's name and contact information: "QBook Donation Website", "273 Qatar University", "(974) 555-5555", and "management@qbook-donaton.com". The main content area is white and titled "Email Us". It contains four input fields: "First Name", "Last Name", "Email Address", and "Phone Number". Below these fields is a larger text area for "Message". At the bottom of the form is a dark green "SUBMIT" button.

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.