A picture containing text, clipart, vector graphics

Description automatically generatedDMIT1530 In-class #1  
Flexbox Layout

2021 Winter Semester

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Due: Friday, Feb 5th, 2021 @ 7pm. | Weight: 5% of your final grade

Introduction

Download the files provided by your instructor. You are tasked with adding the HTML and CSS needed to create the provided layout (see screenshots).

**The Build Methodology**

1. Add the HTML elements required to create a layout matching the screenshots. Use semantic HTML 5 elements and check the document structure in the HTML 5 outliner tool. There should be no untitled sections and the heading structure should match the provided example below.

Text

Description automatically generated

1. For the images, use placeholder images with a 600px by 400px dimension. Ie: <https://source.unsplash.com/random/500x400>
2. Give the first, third and last column two paragraphs of random text, and only one paragraph for the other three columns.
3. Add the necessary CSS starting with the styles needed for the smallest, mobile screen.
4. All typefaces come from Google Fonts; All headings use Ruda with a weight of 700 (bold) and the body content uses Roboto Slab with a weight 300 (thin).
5. Colours used through out the layout can be found here: <https://www.color-hex.com/color-palette/94675>. All headings use #7abfc9 and all body content uses #112945. The background colour uses a tint of the heading colour: #f1f8f9; Borders around the content have a colour of #3e667e. The header has a background colour of white and box-shadow of #cbcbd1.
6. The font sizing should render as follows: h1 heading 44px, h2 heading 36px, h3 heading 24px, and the body paragraph text 16px. Size those fonts in relative units.
7. Style the header element to roughly match the screenshots. Give the header a bottom margin of 24px but apply that amount using relative units.
8. Each column will have a 1px border and 1rem of padding. On the smallest screen the columns will stack vertically, and they will need 1rem of margin on the top and the bottom to separate them.
9. Inside the columns, the images will be placed on the left with the text on the right. Give the images 40% of the available space and add 1rem of margin on the right side to move the text over. The text will take up the remaining room on the row.
10. When the screen is wide enough to fit two columns across horizontally, create a media query for that width and change the layout of the columns. Each column will take up 48% of the space on the row with 2% of spacing in-between them.
11. Once the columns fit two across, the layout inside the columns will change too. The images will have to be responsive take up 100% of the allowable space. Note, they cannot be larger than the container element they are in.
12. Once again, when the screen is wide enough to fit three columns across horizontally, create a media query for that width and change the layout of the columns. Each column will take up 32% of the space on the row with 2% of spacing in-between them.
13. \*Optional: create a fixed width layout at larger desktop screen to contain the content.
14. Validate and repair any deficiencies (HTML and CSS).

**\*\*Note:** The only pixels (px) allowed in your stylesheet is for the media conditions. All other sizings need to be completed using relative elements.

**Submission Requirements:**

\*You must be present, in class to receive a mark for this lab.

When finished, rename your file to *flexbox-lab-username* and submit a zip file (right-click on the folder, Send To, Compressed Folder) of your work to Moodle for submission.

Submissions that **do not** follow proper naming (best practices) or **do not** validate will receive a mark of zero. You will have until the Assignment 1 due date (end of Module One) to show me that you’ve corrected your work.

Marking Key: In Class Assessments

| **Marks** | **Five Marks Criteria** |
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| 5 | Task was completed with the highest of proficiency adhering to best practices and followed subject matter guidelines all tasks were completed to a professional standard. |
| 4 | Task was completed well some minor mistakes. Well above average work shows good understanding of the task and high degree of competence |
| 3 | Satisfactory work some features missing or incorrectly implemented. Show a moderate level of understanding in the task with room for improvement. |
| 2 | Below average work. Task was poorly complete. Show understanding of the task and the requirements to implement but implementation was poorly executed. |
| 1 | Some of the task was completed. Showed a lack of understanding in the subject matter and very poorly executed |
| 0 | Not completed |