In-class Lab 03

ASP.NET Core MVC

In this lab, we will have a very brief review of CSS. If you need more than this brief review, you can find some good tutorials online. One very good tutorial is at `https://www.w3schools.com/css/default.asp`. The canonical reference to all things HTML is the official specification, at `https://www.w3.org/TR/CSS22/`.[1]

- `https://www.w3.org/Style/CSS/specs.en.html` — Revision 2

- `https://www.w3.org/TR/2011/REC-CSS2-20110607/` — Revision 1

- `https://www.w3.org/Style/CSS/specs.en.html`

- `https://www.w3.org/TR/CSS2/`

This lab consists of four parts. Part 1 is inline styles, syntax, fonts, text, and colors. Part 2 is page level styles, selectors, the box model, borders, padding, and margins. Part 3 is external styles, display attributes, and JavaScript event handlers. Part 4 is the grid model and a brief introduction to Bootstrap. You will complete this lab step by step.

1   Inline styles, syntax, fonts, text, and colors

1. Fonts

    (a) font-family
        i. serif
        ii. sans-serif
        iii. cursive
        iv. fantasy
        v. monospace

    (b) font-style
        i. normal
        ii. italic
        iii. oblique

    (c) font-variant
        i. normal
        ii. small-capps

    (d) font-weight
        i. $100 - 900$

    (e) font-size
        i. absolute size, e.g. pt, px, em, en
        ii. absolute size, e.g. small, medium, large, etc.

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[1] This is not the current version, but is the one we will be working from.

2. Text

    (a) text-decoration

        i. none
        ii. underline
        iii. overline
        iv. line-through
        v. blink

    (b) text-indent

        i. length
        ii. percent

    (c) text-align

        i. left
        ii. right
        iii. center
        iv. justify

    (d) letter-spacing

    (e) word-spacing

    (f) text-transform

        i. capitalize
        ii. uppercase
        iii. lowercase
        iv. none

    (g) white-space

        i. normal
        ii. pre
        iii. nowrap
        iv. other (pre-wrap, pre-line)

3. Colors and Backgrounds

    (a) color

        i. color names
        ii. rgb(123,456,789)
        iii. #FF9A23

    (b) Background properties

        i. background-color
        ii. background-image
        iii. background-repeat
        iv. backgroud-attachment
        v. background-position

2   Page level styles, selectors, the box model, borders, padding, and margins

1. Style element

```
<style type="text/css" media="screen">
...
</style>
```

2. Selectors

   (a) type selectors
   (b) descendant selectors
   (c) child selectors
   (d) class selectors
   (e) ID selectors
   (f) pseudo classes, :link, :visited, :hoer, :active, :focus

3. Box model

   (a) margin
        i. 'margin-top'
        ii. 'margin-right'
        iii. 'margin-bottom'
        iv. 'margin-left'
        v. 'margin'
   (b) border
        i. border-width
        ii. border-color
        iii. border-style
   (c) padding
        i. padding-top
        ii. padding-right
        iii. padding-bottom
        iv. padding-left
        v. padding

3   External styles, positioning, and JavaScript event handlers

1. Link element

```
<link href="styles/mystyle.css" rel="stylesheet" type="text/css" media="screen" />
```

2. Visual formatting

   (a) display
        i. block
        ii. inline

      iii. none
- (b) position
  - i. absolute
  - ii. fixed
    - A. top
    - B. right
    - C. bottom
    - D. left
  - iii. static
  - iv. relative
  - v. z-index
- (c) float
  - i. left
  - ii. right
  - iii. none
- (d) float
  - i. width
  - ii. height
  - iii. visibility
  - iv. clip
  - v. overflow

4   The grid model and Bootstrap