

Web_Lesson3: Bootstrap, JavaScript

Please do not forget to submit your feedback after the class. This feedback helps a lot in increasing the effectiveness of the course. Use the related Canvas survey to submit your ICP # and feedback

Lesson Overview:

It covers the basics of Bootstrap, especially the Grid Layout in Bootstrap, the fundamentals of RWD (Responsive Web Design), and some JavaScript.

Use Case Description:

A basic Calculator that can perform all the arithmetic operations using necessary JavaScript (loops, conditions, switch statements).

Programming elements:

Bootstrap, JavaScript

Source Code:

<https://umkc.box.com/s/mayrymeinhu16hca4cazxcbck0myski>

In Class Programming (ICP):

1. **Rock-Paper-Scissors**(<https://en.wikipedia.org/wiki/Rock-paper-scissors>)
 - a. Build the game of rock paper scissors using JavaScript
 - b. A basic [UI](#) will be necessary
 - c. **Hint:** You can use a random number generator and conditional statements to build the application (by comparing the numbers)

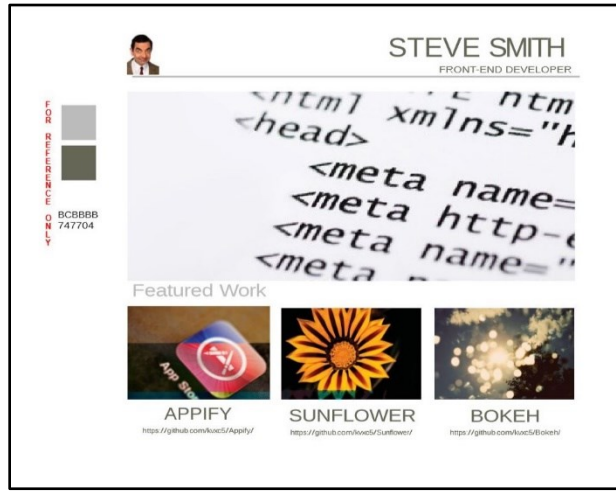


- d. Example UI:

2. RWD Task

- a. Create a page that looks like the below mockup
- b. Download the starter code from [here](#)
- c. Follow the TODO instructions in the 'input.html' file
- d. Make the page responsive and check its responsiveness as the screen size increases or decreases
- e. The font in the mockup looks different from what we have in the code now
- f. Find the closest possible font to the one in the mockup and replace the existing font with it (**Hint:** Visit <https://fonts.google.com/> and look for "Play," "Rambla," "Lato," "Orbitron." One of them might be the font we need!)
- g. Two colored squares and their respective hexadecimal numbers are given on the left side serve as only a reference for the colors used for the text content in the mockup

- h. They are not a part of the final page that we build. Make the page as close as possible to the mockup. You can use your images, though.
- i. **Mockup:** [Link to the mockup](#) (in the case below image is not clear)



ICP Submission Guidelines

1. ICP submission is an individual contribution
2. Submit your source code and documentation to GitHub and represent the work through the wiki page accurately (submit your screenshots as well. The screenshot should have both the code and the output)
3. Comment your code appropriately
4. Video submission (3 to 5 min video showing the demo of the ICP, with brief voiceover on the code explanation)
5. Submission after the due date is considered as a late submission. (Check the 'Late Submission Policy on Assignments' in the syllabus)
6. Use the related Canvas survey to submit your ICP # and feedback

ICP Rubric Details

You can find ICP Rubric Details in both the Syllabus and Canvas ICP assignment.

Criteria	Novice	Competent	Proficient
Wiki page (25)	Basic wiki page. (>=0 to <=5)	Wiki page with the required details. (>5 to <=15)	Wiki page with all details and making it easy to follow and understand. Visually looking good. (>15 to <=25)
Video (25)	Basic video. (>=0 to <=5)	Video with the required details. (>5 to <=15)	Video with all details and making it easy to follow and understand. Annotated with the subtitles. (>15 to <=25)

Completeness of given assignment (25)	It is partially solved. (≥ 0 to ≤ 5)	Completely solved. (> 5 to ≤ 15)	It is solved efficiently. (> 15 to ≤ 25)
Code Quality (It is relative) (10)	Refer to the best coding practices page. (≥ 0 to ≤ 5)	Refer to the best coding practices page. (> 5 to ≤ 8)	Refer to the best coding practices page. (> 8 to ≤ 10)
Commenting the code (10)	Not useful comments. (≥ 0 to ≤ 5)	Slightly appropriate comments. (> 5 to ≤ 8)	Appropriate comments. (> 8 to ≤ 10)
Time of submission	Submission after the due date. Check the 'Late Submission Policy on Assignments' section in the syllabus	Submission on the deadline. No score will deduct from the obtained score.	Submission before the deadline. No score will deduct from the obtained score.
Submission (including feedback) (5)	Submission with partial details. (≥ 0 to ≤ 3)	Submission with the essential details. (> 3 to ≤ 4)	Submission with all the details. (> 4 to ≤ 5)
Total	Minimum = 0		Maximum = 100

Note: Cheating, plagiarism, disruptive behavior, and other forms of unacceptable conduct are subject to strong sanctions under university policy. See detailed description of university policy at the following URL: <https://catalog.umkc.edu/special-notice/academic-honesty/>