CSCI 3000 DA (Web Programming)
Fall 2018

Homework 7

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1. Create a responsive web application using HTML, CSS, and JavaScript. This application ("Guess my number") will randomly select a number (R) between 1 and 100, and then will let the user to guess that number (G). Initially 50 points will be given to the user, then after every missed attempt he will loose 5 points. The App will give a feedback of how close the guessed number was from the selected number. It will show the following messages:

   - "You are very cold" if $80 <= |G - S|$
   - "You are cold" if $60 <= |G - S| < 80$
   - "You are warm" if $40 <= |G - S| < 60$
   - "You are hot" if $20 <= |G - S| < 40$
   - "You are burning" if $0 < |G - S| < 20$
   - "You got it!" if $|G - S| = 0$

   When finally the user guesses the number, the app will provide a point balance for the user. If after 10 attempts the user did not guess the number, a "game over" message is displayed and the user is invited to guess a new number. Sample screen shot from the web app, when it is displayed in a smart phone browser, is shown in Figure 1.

   Grade rubrics:

   - HTML content and structure for a proper display (10 points)
   - CSS styling (look and feel) including responsiveness. Make sure that the look and feel are different in different type of devices (various sizes and orientations). (20 points)
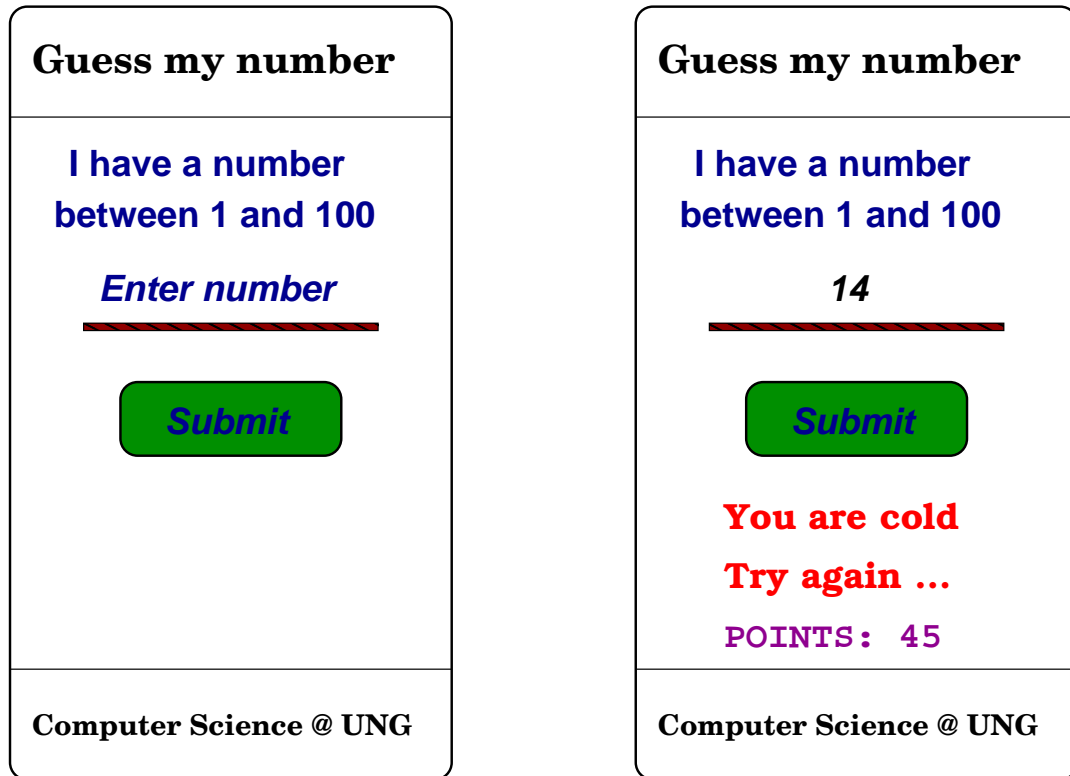   - JavaScript code for calculations and display outputs (20 points)

Figure 1: Guess my number App