MART391 - Milestone 5.
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1. **Implementation update.** My project is a little bit behind the schedule that I had laid out in my presentation. I finished the front-end design and development by Nov 4, which is what I had planned. But I have had to push back the database design as it took me longer than I had hoped to build all the web forms.

   I'm happy with how the site looks and it is fully mobile responsive and I'm pleased with its design and responsiveness. There is plenty of room for improvement, but I'm very happy to leave it as/is for the time being and move on.

   In the area of front-end design, one area that can be improved is my css stylesheet. When I get the chance I will go through it systematically and simplify it by doing things like combining several classes that all have the same styling in to one class and tidying up the heading structure. This will make my web app much easier to edit and update in the future.

2. **Not part of a team.**

3. **Previous and current timelines.** I had swapped building the database tables/stored procedures and the asp web forms around as it occurred to me that it made more sense to build the forms first and the tables second. That is - design the tables off of what is required by the front end. The web forms were meant to be completed by Nov. 11 and I was meant to complete the database tables and stored procedures by Nov. 18. I got most of the web forms done, including getting the buttons to work, but realized that I needed to connect all the forms and pages together. And as there are quite a few pages and forms, and some of the forms need to be filled out sequentially, it is taking a bit of thought and work to get that to work correctly. Also, we learned about Server.Transfer in class this week and I am going to update all my transitions to use Server.Transfer, which is going to take some time and I will need to first understand how that works.

   So as much as I hate to do it, I am going to push the completion date for my database tables and stored procedures to Nov. 24. That will give me 3 weeks to connect the front end to the back end. Assuming I build the database correctly, I'm somewhat confident that I will have at least something that functions, at least at a basic level. But, I really am on a very steep learning curve and I find that it takes me so long just to understand in general terms what is going on (usually watching and rewatching the lecture videos) that actually getting down to the detailed business of implementing something is very time-consuming and slow work and takes much longer than I'd like it to. I have learned a huge amount this class and I really appreciate the larger understanding I am getting of web development, but I'm definitely in the slow lane.

4. **Optimization features.** As mentioned above I will use Server.Transfer for all the transitions between pages. This will make fewer calls on the server and should speed up transition times when linking one page after another.

   I have also resized all images so that they are exactly the width and height that I need them to be. I.e., there is no unnecessary loading of too-large image data.

   Additionally, I have used svg images wherever possible as they look much sharper than their raster counterparts and, so I have read, load faster than raster files.

   Lastly, I have not found a use for it yet, but if I find a part of my web app where I can use ajax I will definitely see if I can get it to work.

5. **I have included my reasoning for each optimization in the descriptions above.**

6. **Optimization measurement.** When I get everything to work and I have users filling in all of the forms and searching for profiles that they are interested in, I will try to use a tool like pingdom (https://tools.pingdom.com/) which I found online to measure load times. They have a 14 day free trial and you can test your site different areas around the world. I will say that if a page takes longer than 3 seconds to load then I will try to pinpoint what is causing the delay and fix it!