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 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 thing 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.

   I am now planning on finishing the web forms this weekend by the evening of Sunday, Nov. 17 and I am going to push the completion date for my database tables and stored procedures to Nov. 24. That will give me 2.5 weeks to connect the front end to the back end. I'm not sure how to exactly break that process down. But I think I will try to complete all the connections that insert data the first week (11/25 - 12/1) and then everything that pulls info from the database and displays it on the front end from 12/2 - 12/9.

   That will give me a day to prepare a presentation!

   Assuming I build the database correctly, I'm somewhat confident that I will have at least

something that functions and that I can show the rest of the class.

4. **Optimization features.** As mentioned above I will use Server.Transfer for the transitions between pages where information is being pushed to the database. 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 extra 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.

   All of my interactions with the database (insertions/deletions/queries etc.)will be using stored procedures.

   I haven't fully understood caching in asp.net, but I have quite a bit of content that could be cached which will load at faster times if a user is moving back and forth between pages.

   I will try to use javascript to validate the credentials entered in the login page as the client-side validation takes less time that server-side validation.

   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 that 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!

   I will work to abide by the 3-click rule. That is, anyone should be able to find the information they are looking for in only 3 clicks. At the moment I think my site is simple enough so that max 3-clicks should not be too difficult to implement. But the 3-click goal will be a challenge as my site hopefully evolves and becomes more complex.