Issues with the previous websites:

Some issues that we noticed with Dr. Bretcher's website was that it is unresponsive to window size changes. If we were to use a smaller resolution, the text would go off the page. As well as the links that were provided not responding to user actions. This can make the website feel clunky and it drastically affects the user experience.

The sidebar also changes when we go to a different page. For example when we go to the tests page, calendar disappears from the sidebar. This could lead to confusion with the user when some of the pages just disappear.

There is also a missing page, if we go into calendar, and on the sidebar there is a "new news" option, when that is clicked, it says page not found. This can also lead to confusion where students might think that they missed some important announcements.

Finally, the final issue is that the website is not visually appealing. This is not a major issue, but the text fonts and color scheme are not great, and it can cause a little discomfort with the students.

How we addressed these issues:

To make our website responsive to window size changes, we made sure the big bodies of html were styled with percentages instead of flat px values. That way our website looks similarly regardless of the window sizes. We also made our website responsive to user actions by making sure our links and buttons responded to user actions such as hovering and clicking. When a user hovers over a button, it changes in color and grows in size. When a user hovers or clicks on a link, the link changes to a different color.

We addressed the issue of the sidebar by making sure each website had the same navigation bar and footer by using a template that we created for each page. That way our website will look and feel consistent on every page.

We also revamped the aesthetics of the website by using a professionally made color palette. That way our website feels more vibrant and more visually appealing to students.

Challenges that we faced:

One of the challenges that we wanted to address right at the beginning was the visual aspect of our website. We wanted to have a visually appealing website that feels more vibrant, so we went to a website that created color palettes, and we chose one that felt like the best fit for our purpose.

Another challenge was making sure our navigation bar was responsive to window size changes. Previously, when we didn't implement our solution, the navigation bar would get crumpled if the window size would get too small. To resolve this issue, we added a section in CSS that would change from a horizontal navigation bar to a vertical navigation bar whenever the window size would reach a certain threshold.

Lastly, a challenge was that this was a group project so we had to somehow manage our codebase such that it would work together. To resolve this issue we decided on using Github to act as a version control system as well as being able to merge our codebase with each other. Using this solution allowed us to work seamlessly as a team.