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CSCI 3002-102

Group: ZU Grads

Project Milestone 2

Our application allows for greater integration between Canvas and Zoom (and other virtual meeting software). It adds a Zoom link tracker to the main sidebar of Canvas. On this tab, professors or users can add information for zoom meetings. This includes a friendly name for the link, time for meeting, Zoom link, Zoom ID, Zoom meeting password (if applicable) and any extra notes that could be useful for the meeting. This allows students and professors to manage their meeting times and meeting links better, which can help increase attendance for classes and other meetings, as well as make life slightly easier for everyone.

For our previous milestone, we found the subsequent requirements of:

- Our application must a good user interface that is intuitive, easy to use, and neat-looking
- Our application must be similar to Canvas or pull data from Canvas
- There must be a tab dedicated to due dates as pertaining to assignments, quizzes, and announcements
- There should be a calendar view of due dates as pertaining to assignments, quizzes, and announcements
- There should be a place to access individual courses and their corresponding web pages
- There must be a tab on a sidebar dedicated to Zoom links
- It would be preferable to include a search bar
- It might be useful to have an integrated place to take notes
- It might be useful to have another tab dedicated to storing other school-related links

Due to these findings, we made our prototype look exactly like Canvas and fit into Canvas' design. We left Canvas exactly how it is except that we put a tab on Canvas' sidebar dedicated to a place to access Zoom links. On that page for Zoom links, we included a blue button to add Zoom links and a red button to delete Zoom links.

We recruited 2 students from CU due to the fact that those students should be familiar with the website since the majority of CU uses Canvas. The way that we recruited participants was we asked a few friends if they'd be willing to partake in our study. We did instruct our

participants to think aloud during their participation. One student was extremely tech literate and the other was technologically competent, but not amazing. Neither seemed to have major issues navigating our prototype.

Our results after testing are that our average timing on the task of navigating to the Zoom link list page averages about 4.6 seconds. The second task, adding a new link, averaged about 14.3 seconds. And the final task, deleting the CSCI 3002 link from the list averaged 6.5 seconds. From the observations, it seemed that the second task took longer because one of the participants seemed unsure if they needed to attempt to type in the mock textboxes, although we had stated in the instructions that they did not because Figma does not allow for this. Most of the feedback we received with our followup questions was positive.

One individual brought up that our “Remove” buttons were quite large and bright, which had the concerns of not only ruining the themes on Canvas, but also makes it more likely to accidentally press this, deleting a link unintentionally. This made a good suggestion of decreasing the size of this button, as this would make it more difficult to press by accident. In addition, keeping the color, while distracting, provides a certain warning to not click the button if you do not wish to delete data.

Across both participants, they had an easy time finding where to navigate to accomplish their tasks. One commented that everything was well labeled and organized, and fit into the Canvas environment appropriately. However we also received feedback that some of our labels and titles seemed a bit awkward. To amend this we plan on rethinking some of the names for our title, specifically the ‘Zoom Links’ page.

What we learned from user testing was extremely helpful and helped us realize some issues (or non-favorable decisions) with our prototype as well as learn what people with different levels of experience with technology think when they work through our prototype. Hearing a user’s thoughts directly as they go through the prototype is also very helpful to understand how people go through user interfaces. The one thing that we’d do differently next time would be to get more participants with different levels of technological experience. We mainly are friends with other computer science majors who happen to be good with technology. If we could get some people who are bad with technology (cough cough Business majors), it would offer even more useful insight.

[Old Figma Link](#)

[New Figma Link](#)

Appendix A

Prototype Screenshots

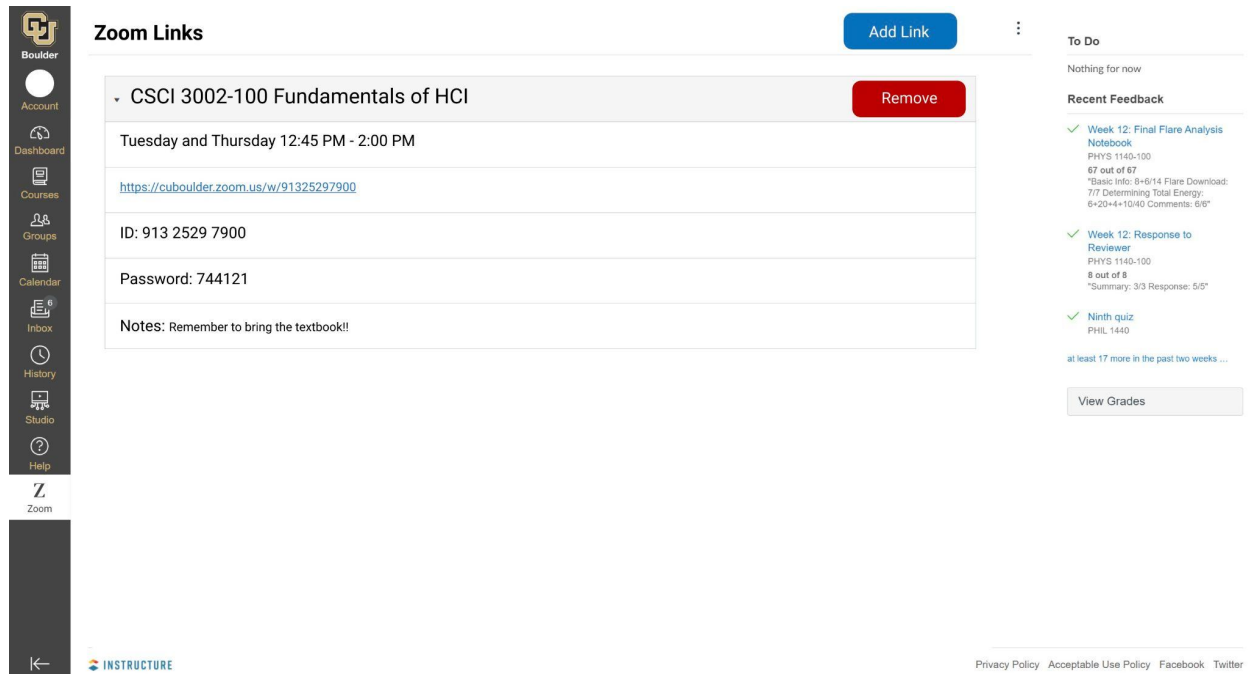


Figure 1: Zoom Links List Page

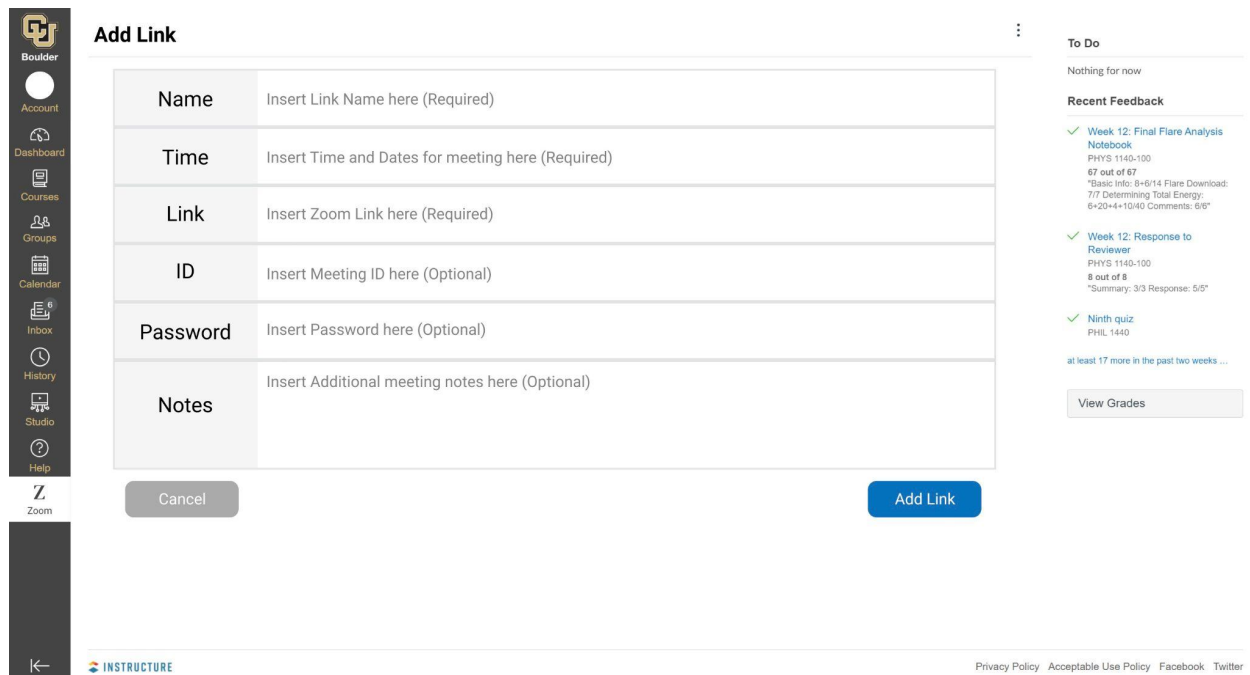


Figure 2: Page to add a zoom link to the list

Appendix B

Usability Testing Script

Hello and welcome to our usability test. We are group ZU Grade, and today we would like you to test out our prototype for our Canvas extension. We aim to provide an effective and easy to use way to store zoom links with relevant information for various classes and meetings within the Canvas environment that students are already using on a daily basis.

We have set up our prototype to represent three different tasks that we will ask you to complete. These tasks are to 'Navigate to view your list of zoom links', 'Add a new zoom link to your list', and finally to 'Remove the CSCI 3002 link from your list of links'. These tasks will each be repeated before you perform each one.

Some notes about the prototype are that hitting the 'Dashboard' button will reset all changes made in the link list. Besides from the dashboard and the added features, no other Canvas features are implemented in this prototype. In addition, there are sections where text entry boxes would be used however these are omitted for the prototype due to Figma limitations.

As you work your way through each task we request that you think aloud as you make your decisions for the next gesture. We will be timing each task as well as taking field notes. Then at the conclusion of your testing, we will ask some followup questions. In a moment we will post the link to the prototype in the chat. We ask that you share your screen, then we will commence each task. Any questions so far?

Answer questions they ask and note these in testing notes

Add link to prototype in chat, and wait until the user screenshares, ensuring they begin on the dashboard page

First task - 'Navigate to view your list of zoom links'. Reminder to please think aloud as you go. Begin.

Start timer, wait until task is finished, end timer

Starting from this page, the second task is 'Add a new zoom link to your list'. Begin.

Start timer, wait until task is finished, end timer

Starting from this page, the last task is 'Remove the CSCI 3002 link from your list of links'. Begin.

Start timer, wait until task is finished, end timer

Thank you very much, now we have just a few follow-up questions. First of all, do you have any general suggestions to improve or add to the prototype?

Did you feel it fit into the Canvas environment well? If not, what would you change?

Was there anything that felt more difficult to navigate to as you went?

On a scale of 1 to 10 how would rate the difficulty of how to perform the tasks in the prototype, where 1 is low difficulty?

How would you score accessibility of the prototype on the same scale, where 10 is highly accessible?

Do you have any other comments you would like to add about your experience?

Thank you so much for your participation. You have helped us a lot. Have a good day.