Responsive Redesign

Overview

As a student in many large lecture classes, digital forms of communication are frequently important to getting the help I need from teaching assistants and professors. One tool many of my classes use is Piazza, an online platform where students can ask questions which other students and professors can answer, and professors can post course announcements.

Piazza is not a particularly well designed site, and its weaknesses are especially clear when viewing on mobile or a different non-standard screen size. In this redesign, I will attempt to identify the problems with Piazza's interface, and address them in wireframes, a high fidelity mockup, and a responsive webpage.

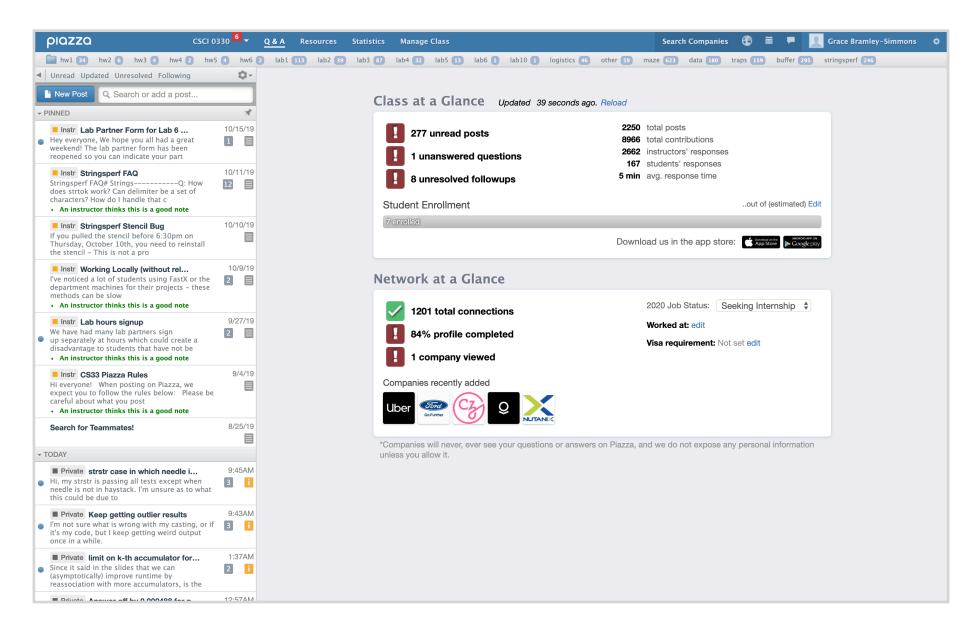
Design analysis

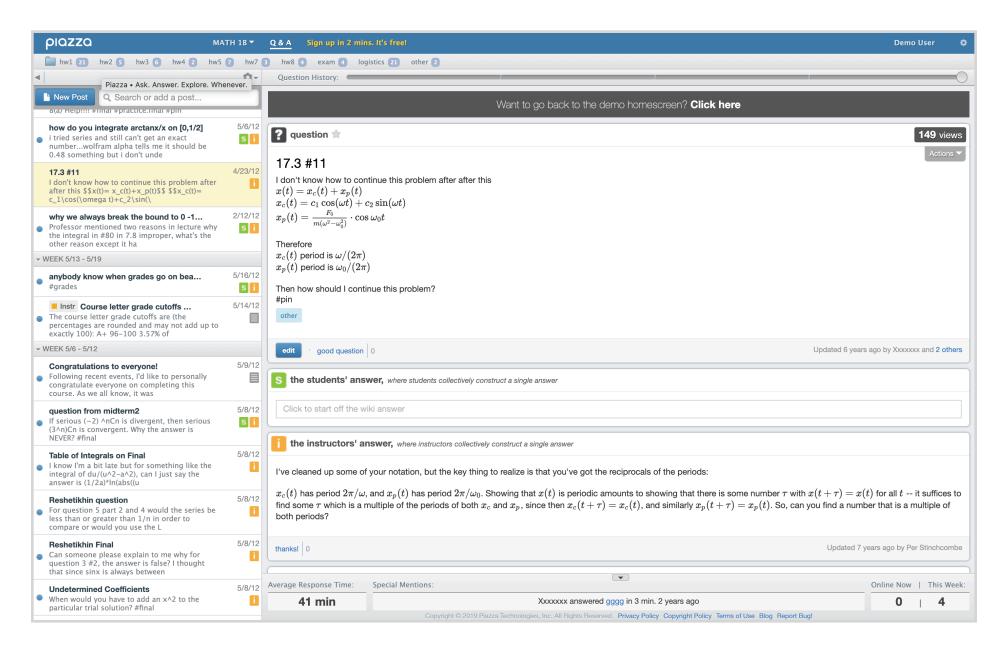
Piazza is usually available only via login, but for demonstration purposes I will be using screenshots from a publicly available test class. You can view this class here: https://piazza.com/demo_login?nid=gw9jakygzvs616&auth=50e021f&close=fancy.

While Piazza is usable, its design is not friendly for users on mobile; the site simply is not responsive, making it virtually impossible to use on anything but desktop. It's also more difficult than it has to be to switch between classes, one of the functions I find myself using most often in the class, and all buttons that seem like they should lead to a home screen actually lead to Piazza careers, a fairly unrelated service.

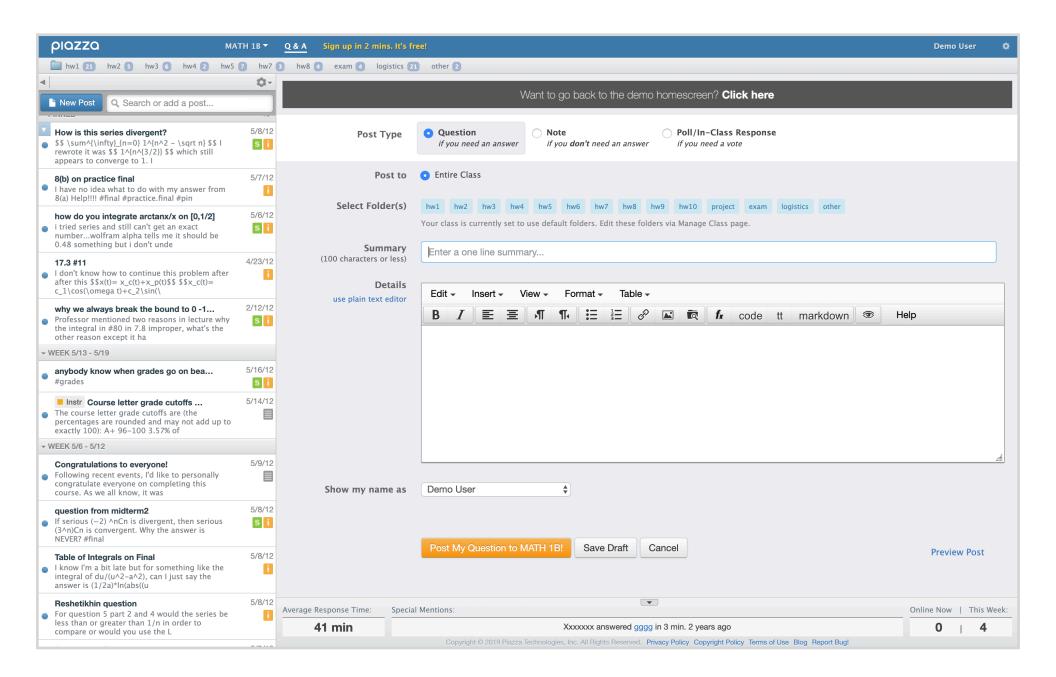
There's some questionable and confusing features, such as question history, which shows how a question has been edited over time, and the Actions tab for each question, which has one action - follow. Useful features are also not immediately obvious (it took me until looking critically at each feature for this redesign to figure out how to collapse the question feed).

Interface Screenshots





Question View



Ask View

Mockups

PIAZZA Home A ± **About Me Classes I'm Taking** CS0000: What's a Computer? CS0001: How to exit vim **Lorem Ipsum** + add a course Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea **Classes I'm TAing** rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore CS0002: Tar commands and their uses et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd + add a course gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea.

CS 1300 ~

User Interfaces and User Experience

Ask a question



Filter Questions

Course Announcements

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Top Questions

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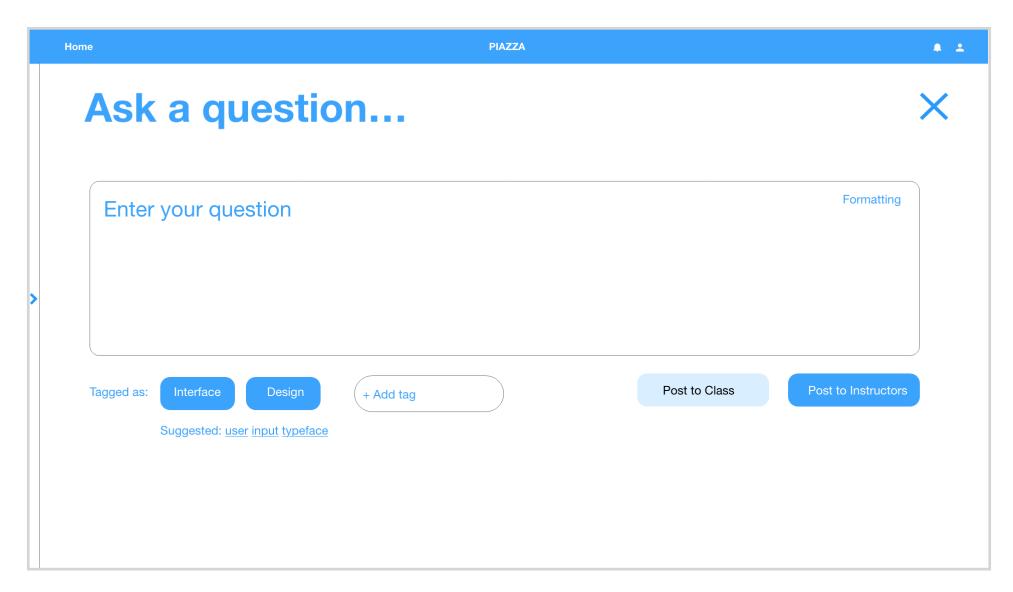
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CS 1300



+ Ask a question



Filter

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Q: Lorem Ipsum?

Like Follow

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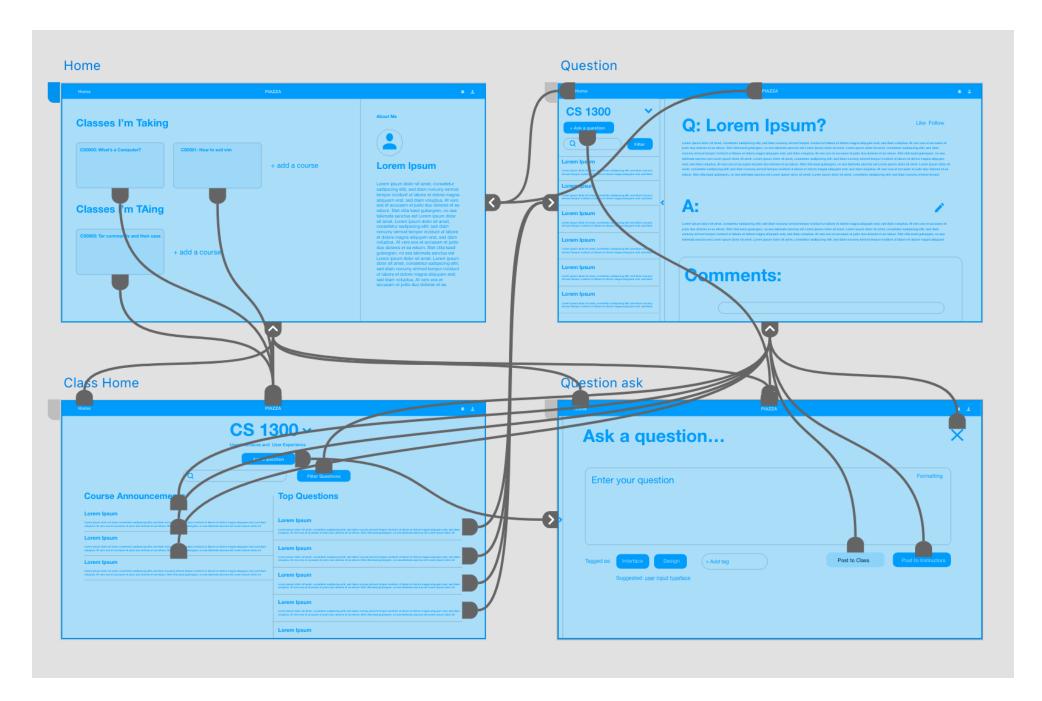
Comments:

Question View

Usability Analysis

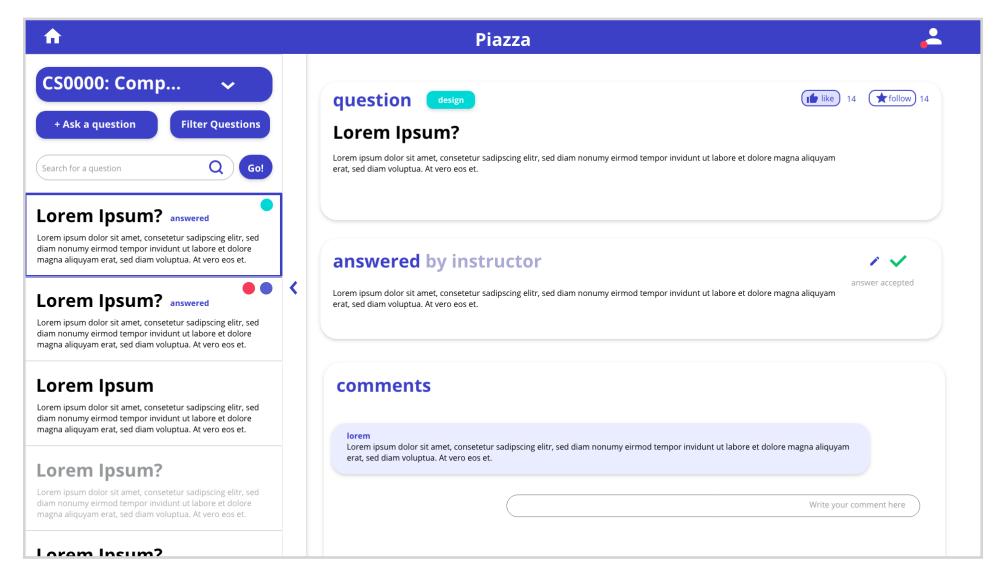
Criteria	Original Interface	Redesigned Interface
Intuitive Design	 The question sidebar layout is fairly intuitive It's not immediately clear how to switch classes, or which class you're currently on Filtering questions 	 Keep the question/sidebar layout Add a more intuitive home screen to make navigation easier. Makes the flow between pages easier to understand.
Ease of Learning	 There are a lot of hidden menu items that are necessary (post links, follow question), which are hard to learn where they are There's often not text to accompany icons or color codes 	- Uses familiar icons and clear text to make it obvious what a user can do on each screen
Efficiency of Use	 There's a lot of fields to fill out when you ask a question It's sometimes hard to find the question you're looking for. A relatively small font size for question titles makes them not immediately obvious 	 Trims options for user to the most frequently used Larger text allows users to find what they're looking for on the page more easily Clearer buttons on the sidebar allow for faster filtering of questions
Memorability	 It's hard to remember where certain menu items are (hide sidebar, follow a question) It's hard to remember how to navigate between pages 	Use of text and intuitive icons together creates stronger mental associations

User Flow

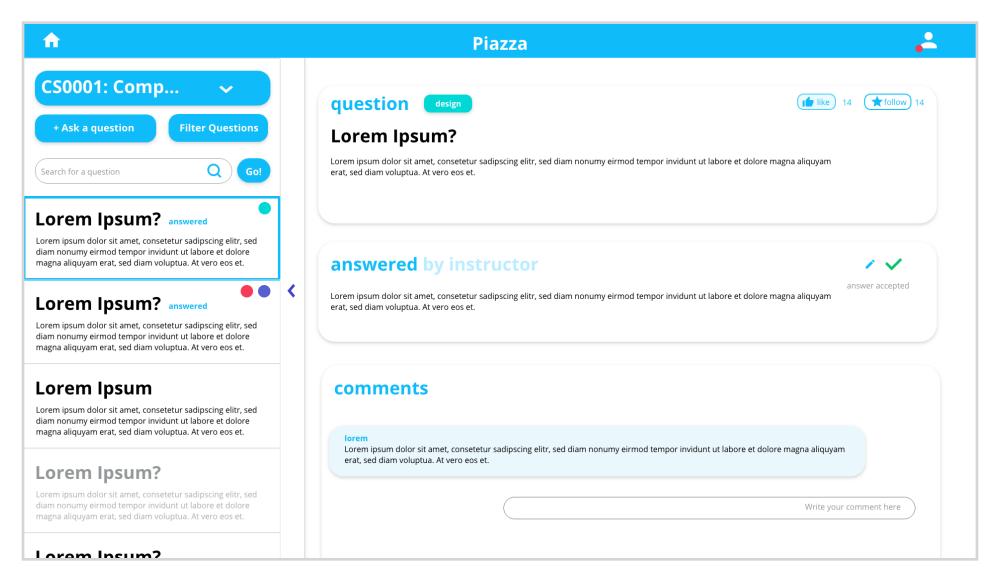


High Fidelity Mockup

In this mockup, I tried to make visual cues, such as font size, icons, coloring of text much clearer, though a similar structure t current piazza is maintained. To improve memorability, this design intends for each class to have its own color (two theme colors for two different classes are included). Color and bolded fonts are used throughout to draw user's attention, while familiar icons are used to allow users to apply their existing mental models to this interface. I have assumed that some hover text would be added in various places to allow for better learnability.

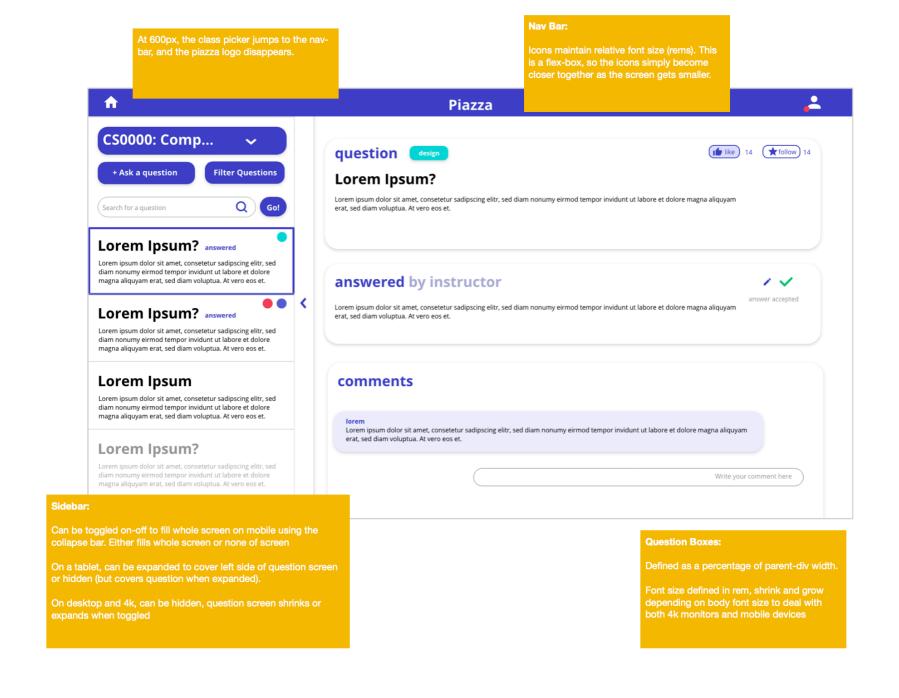


Theme Color 1



Theme Color 2

Annotated Mockup



Responsive Redesign

As I was working alone and my hi-fi mockup was fairly complex, I didn't have time to fully implement all aspects. However, I hope the included implementation can offer some insight into how the actual webpage would respond.