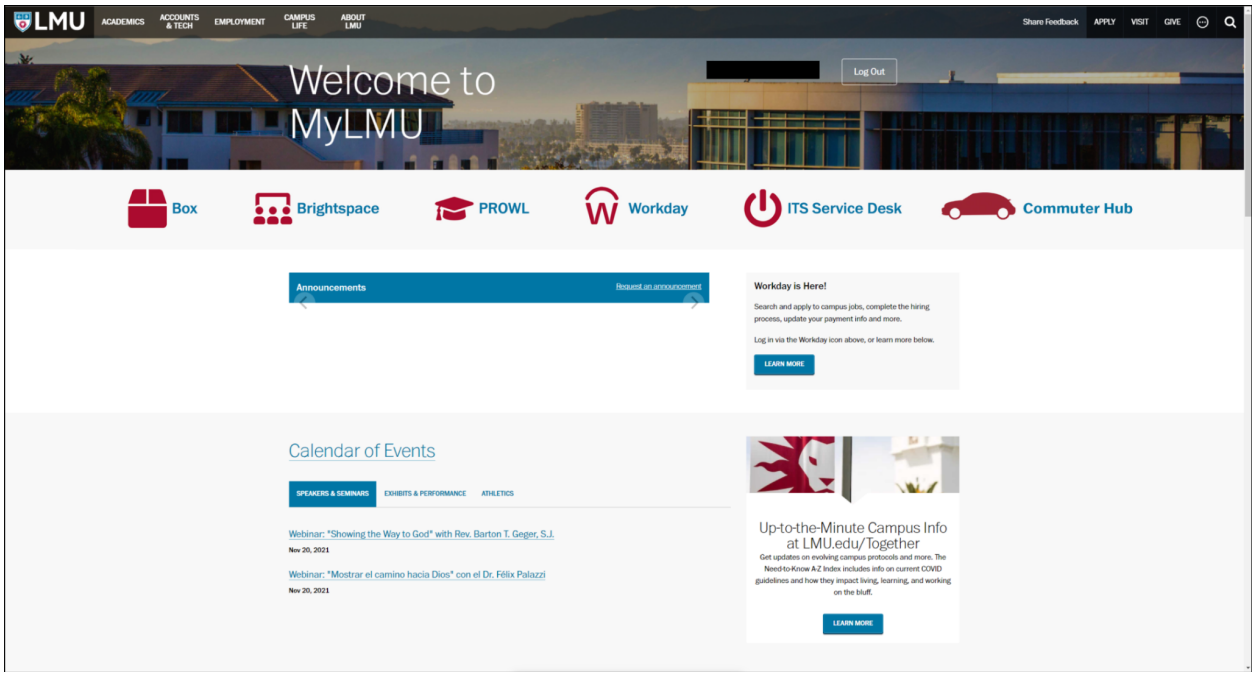
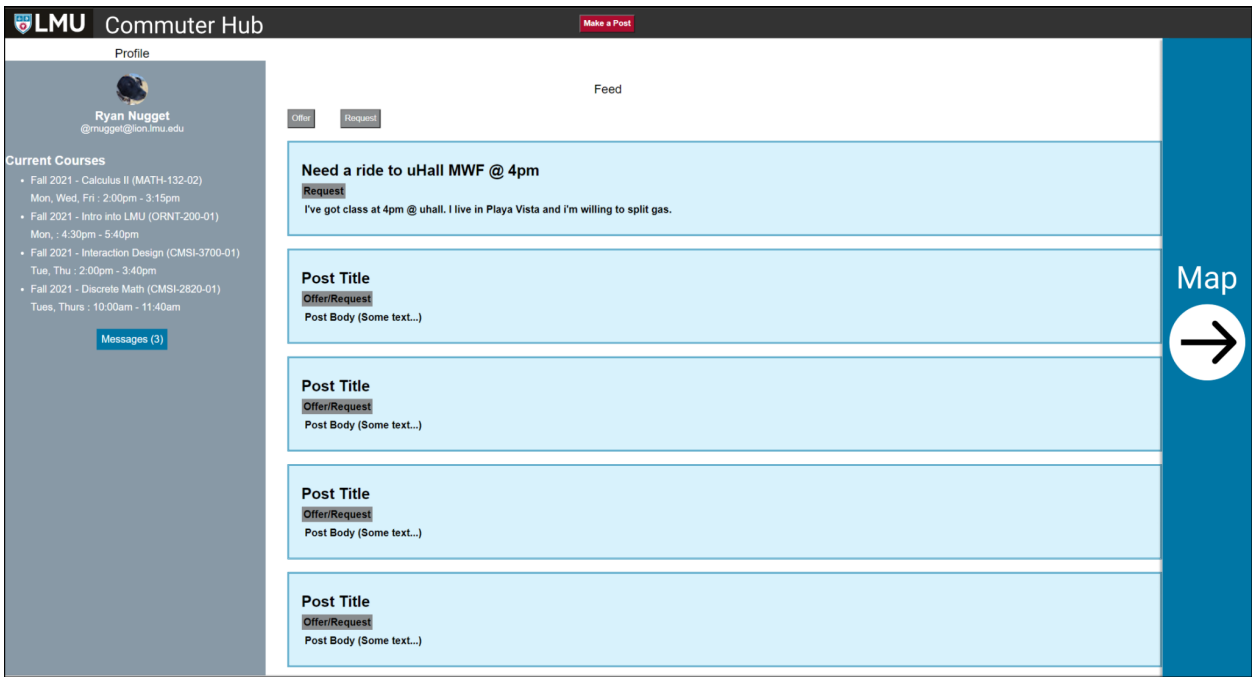
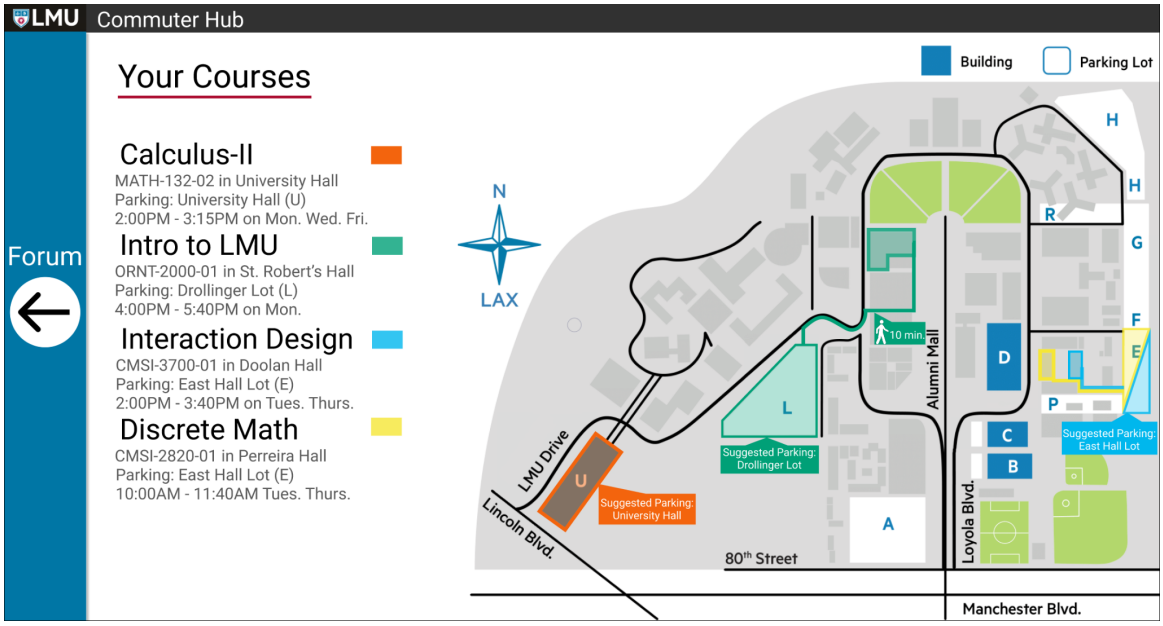
We started the Commuter Hub prototype using Figma as a base. Xan created a mock MyLMU home page and basic layout with the sliding layout to pull out the map page from the second milestone. Ideally, our page would be able to get the user's classes in the same way other MyLMU pages, such as Brightspace and PROWL, do. At any time, clicking on the LMU logo in the corner will bring the user back to the MyLMU homepage, as the original MyLMU site does.



The only button on this page that works is the Commuter Hub icon. Clicking on it brings you to our prototype. The Figma portion of this prototype covers the map and layout, with a screenshot of the forum in place of a functioning forum, which was created separately.

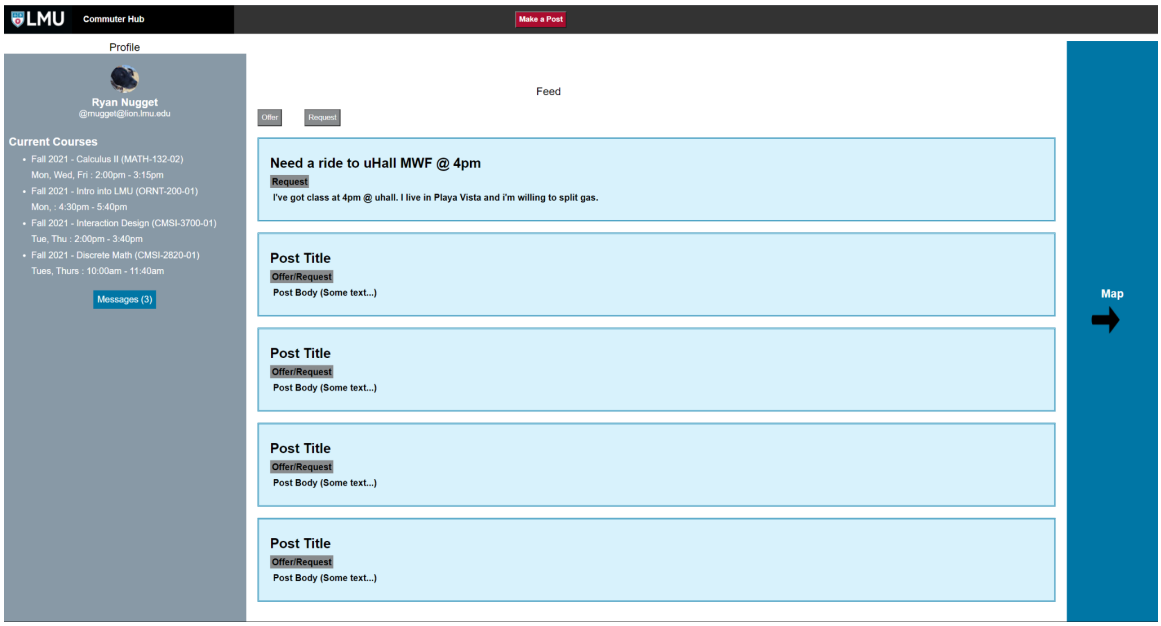


Clicking the “Map” arrow on the right side of the page will slide the bar over to the left side and reveal the map page. The arrow, now pointing left, will slide the forum back over onto the screen. Jeff used the existing LMU student parking maps to create a simplified map without icons to draw paths onto. Xan did the layout and paths for the map and annotated the page in Figma with a logical tab order. We are assuming that we can use the existing LMU website’s accessibility features for screen reading.

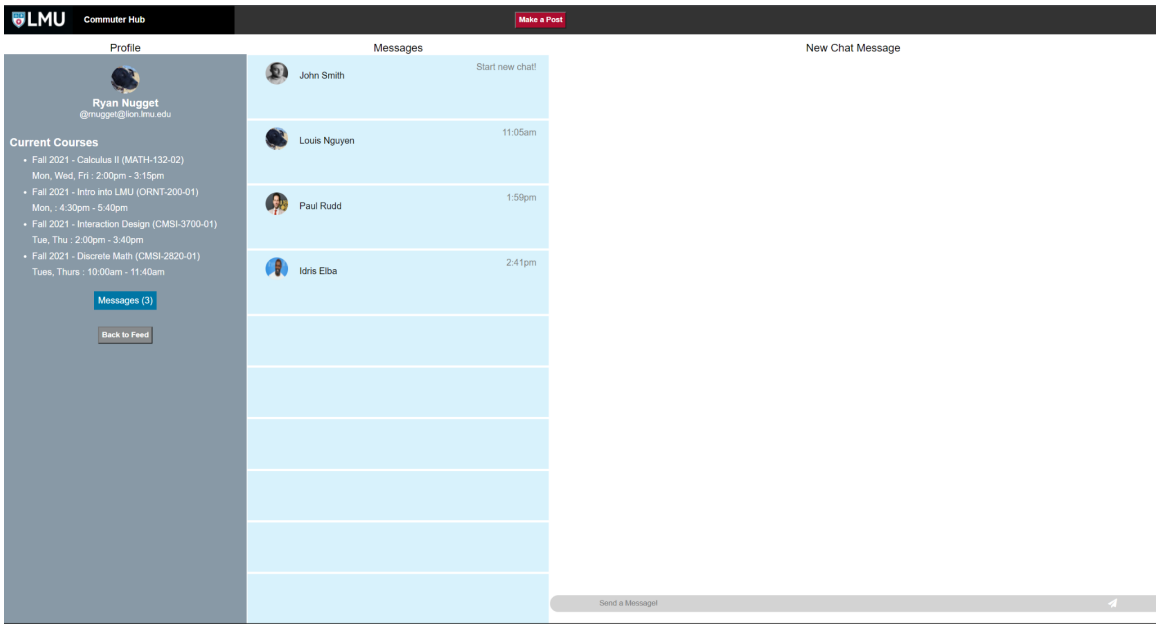


We used a Figma plugin to determine if all of the individual colors stand out with various different forms of colorblindness. The colors used in the map were the default options used on the davidmathlogic.com color tester app. However, we found that the dark green path was too dark and blended with the road it curves along with the original colors, so we instead chose to use the “Okabe Ito” proposed colorblind-friendly palette.

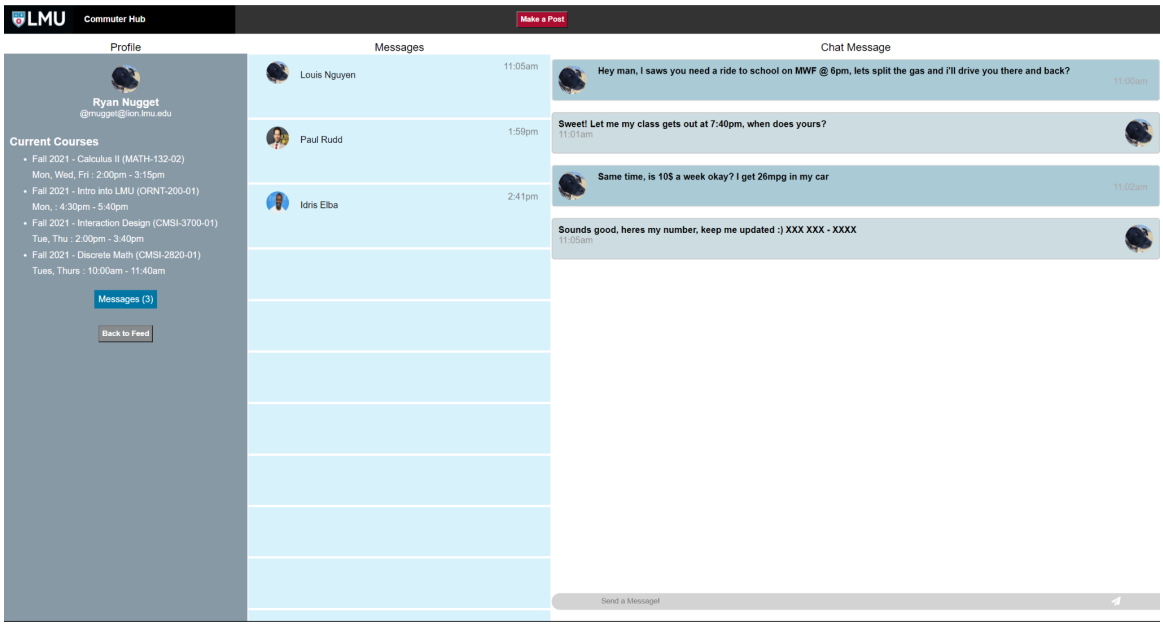
Ryan created the prototype's final forum page in HTML and CSS and posted it to GitHub. Xan and Ryan made some last-second tweaks based on feedback from all members of the group. The main forum page has the user's current courses on the profile bar to the left. The feed would get live posts made to the forum, with the most recent at the top. The request and offer buttons at the top should filter out all posts that are not the one that was selected.



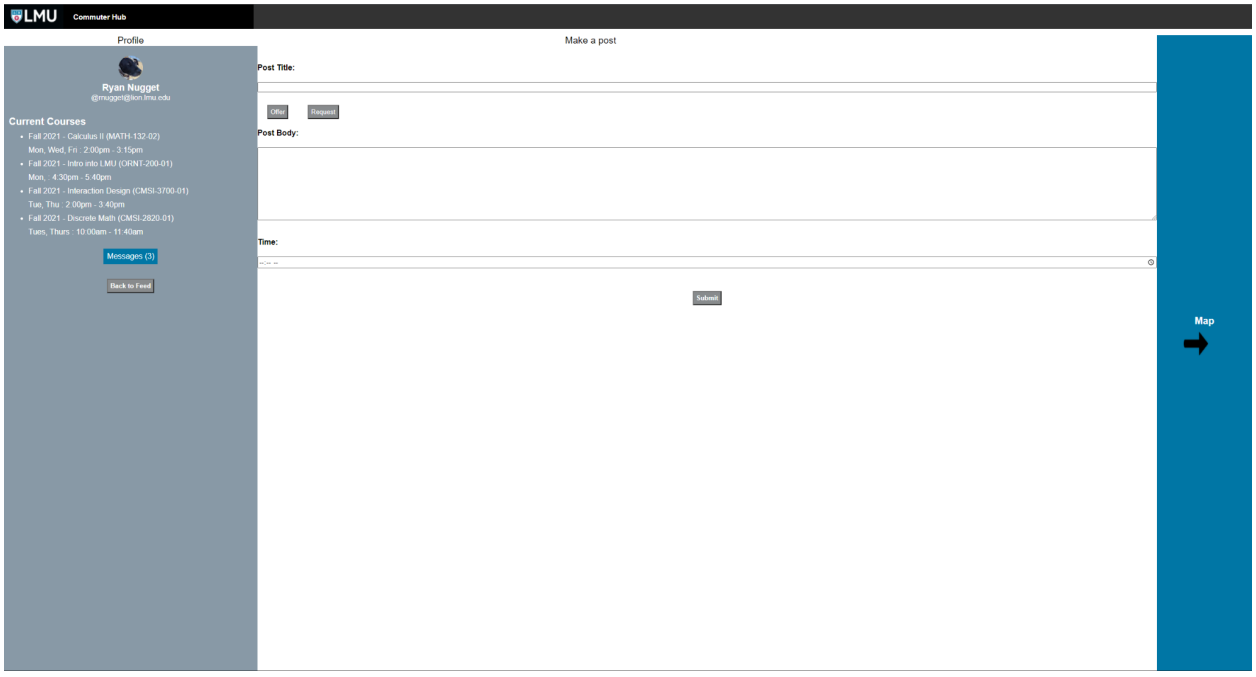
Clicking on a post in the feed will bring up the messages page, ready to send a message to the creator of the post that you clicked on. This page can also be reached by clicking the blue "Messages" button in the profile section on the left. The number next to messages represents the number of new messages received. A "Back to Feed" button appears under messages to bring the user back to the main feed screen.



Clicking any of the other contacts on the messages screen will bring up the page to message that user.



At any time, clicking the “Make a Post” button at the top of the screen will bring the user to the page to create a post. Users can enter a title, body, and time that they need to be at school. They must also specify if this post is a request or an offer before creating the post.



The HTML prototype does not contain the map or the MyLMU front page, so the buttons exist but do not function.

We can test the system by having users find the suggested parking for a class on the map. They can then request a ride to that class and parking lot at the given time. We can also have users offer a ride to someone with a class at the same time as them. Another test we could do is have users go to the messages screen and reply to a message that they have received for their post if they chose to make a post rather than message an existing user.

Before the benchmark test, we will ask our user participants if they commute to school and where they usually park. After the benchmark test, we will ask participants if they would use this page if it existed on MyLMU and some questions from a script about specific parts of the system. Currently, our plan is to get as many participants as possible to accomplish a single task and determine what, if any, part of the program may be confusing or inaccessible.

Commuter Hub Group Figma page:
https://www.figma.com/file/ZFVRuxmELfwUAmUb2KA3Yk/Commuter-Hub-Prototype?node-id=0%3A1

Colorblind test tool:
https://davidmathlogic.com/colorblind/#%23D81B60-%231E88E5-%23FFC107-%23004D40

Okabe Ito color palette:
https://jfly.uni-koeln.de/color/