

User 1: Victoria Fowler

Our first test user was Victoria Fowler, a nursing student at MSU. Since she is studying in the medical field, we figured that she would have valuable insight into our product from a clinical perspective.

We started the hour by just having her log in as a prescriber under an account created for the test. We encouraged her to talk through what she was doing, and she basically just followed the role of a prescriber creating a new patient, giving the PHQ-9 and MDQ, viewing treatment overview information and viewing medication information. Since she was only somewhat familiar with the medications and was not an actual psychiatric prescriber, she was not able to necessarily “prescribe” medications, but she could get the information she needed about them. In the end, she tested all of the features of the website at least once, with all of it being fairly straightforward and easy to access.

From this experience, we got a few more ideas on how to improve our website. We found that simply watching her navigate through it gave us ideas for improving the layout and flow of some parts, or making certain features more obvious and less confusing. Detailed notes from the session can be found in the same directory as this document in the file called “Victoria_Notes.txt”. In general, she found that the prompts and flow were laid out well and she had all of the functionality she needed. A few minor things were changed as a result of this session; for example, we changed the prompt in the patient view from “Take PHQ-9” to “Give PHQ-9”, and similarly for the MDQ, as the prescriber is not themselves taking the forms. We also improved the design of the medication information view page to make it easier to find the necessary information. Other suggestions may be taken into account in the future, but were not crucial for our release.

User 2: Jaclyn Wing

Our second user was Jaclyn Wing, a Mechanical Engineering student at MSU. Jaclyn’s main focus was to test the general flow and UI experience. With little to no computational or medical experience, Jaclyn also acted as a good ‘worst case scenario’ user. Before starting Jaclyn was given three required tasks, create a new user, take the MDQ quiz, and take the PHQ-9 quiz. Jaclyn was encouraged to inspect every component of the website she could and communicate any and all thoughts she had while exploring. Jaclyn made several small recommendations but found no glaring issues. Detailed notes of her user test can be found in the same directory as this file under “Jaclyn_Notes.txt”.

Although Jaclyn found no major issues with the site she did have a few suggestions on how to improve the experience. When creating a new patient she pointed out that the date of birth tag was labeled ‘Dob’ which could potentially be confusing and should be updated to the more commonly seen format ‘DOB’. Another concern she had with this process was that the Address field had no guidance or constraints. She was unsure if she need only enter a street address or if the state and zip code were needed as well. She also noticed that anything could be entered which could result in non-valid patient data.

After creating a new patient Jaclyn moved on to the other required tasks of taking the evaluation quizzes. The first 13 questions of the MDQ are different scenarios and the patient should check yes or no based if they have ever experienced a time when the scenario has happened to them. Because of this, the quiz starts with “Has there ever been a period of time when you were not your usual self and...” and each corresponding question read something like “...you were so irritable that you shouted at people or started fights or arguments?” Jaclyn reached question 8 and forgot the original prompt, so she recommended that instead of the current format we update each question to include the original prompt to avoid confusion. Jaclyn also suggested that at the end of both quizzes on the “survey compete” page we include a short message defining that the patient’s role was over and that only the prescribers should continue on the site.

Jaclyn did find a Bug when exploring the admin functionality of the site. When the user tries to update the algorithm or medications under the admin actions, if they click the “view on site” button the page errors out and displays a database failure. Both of these pages use a built-in Django base, which fails to connect to our database. To solve this problem we did not use the Django page and instead set up our own form to handle these updates.