



moodtracker.com

Comparison Study and Report

HCI 460

A report by Crystal Koo, Cindy Aronson, Tim Lattimer and Rahul Kapoor

August 17, 2020

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Executive Summary

In this project, our group chose to further analyze how easily users can create a new user account on the MoodTracker website. We conducted an unmoderated comparison test through UserTesting.com and recruited 12 participants to complete the task using two different interfaces: the original and redesign website.

Once the tests were completed we conducted a paired-samples t-test to compare the time spent completing the task of becoming a member in Moodtracker using prototype 1 (Original Design) and prototype 2 (Proposed Design). The results were not statistically significant in the scores for prototype 1 (M=125.5, SD=99.628) and prototype 2 (M=84.67, SD=47.854) conditions; $t(9)=1.815$, $p = 0.107$. These results suggest that there is no difference in the time spent to complete the task of becoming a member between the two prototypes. 7 out of the 12 participants completed the task from the original website, while 9 out of 12 participants completed the redesign.

We created a list of recommendations that we feel will enhance the usability of the website: 1) increasing the font size to 14 or higher in the mood tracker homepage to ease readability; 2) adding a "sign up" button next to the login on the homepage; and 3) condensing the plans to avoid long scrolling lists.

Introduction

MoodTracker is an online application that helps users improve their quality of life through tracking measurements such as water intake, depression, and anxiety levels. The app includes treatment tracking, reminders, and allows users to share their charts with their wellness team to improve their wellness goals.

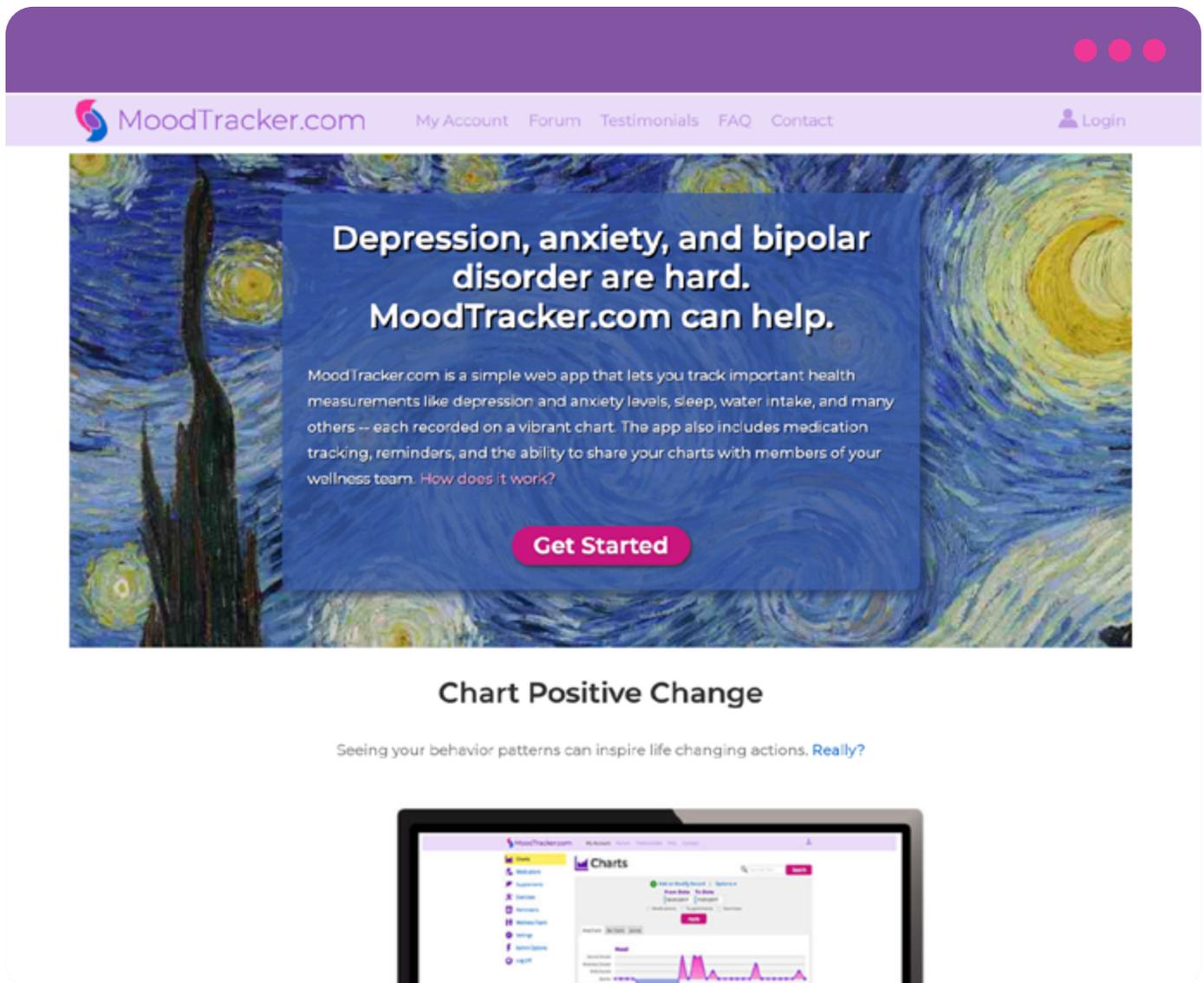
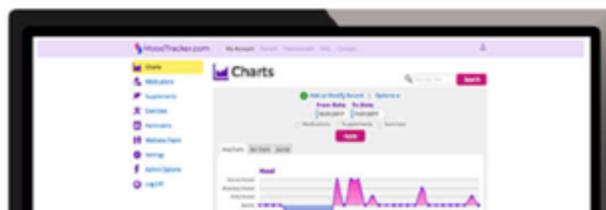


Chart Positive Change

Seeing your behavior patterns can inspire life changing actions. [Really?](#)



Purpose

The purpose of this comparison study is to determine which version of MoodTracker's sign-up process participants prefer: the existing MoodTracker or a new, redesigned version. This comparison study focuses on the test objective: How easily can users join MoodTracker? In our previous study, our participants were confused about which path to take when signing up for MoodTracker in order to keep track of their happiness levels. The wording of labels in the signup process created uncertainty as users were unsure if they successfully completed the task. After conducting this comparison test, our group was able to provide recommendations on simplifying the signup process for new users.

Test Objective

How easily can users join MoodTracker?

Q1: Are there any language labels that might create confusion?

Q2: Do participants see and understand the differences between the plans?

Q3: Do participants have confidence that they have completed the task of joining Moodtracker?

Q4: Which prototype do participants prefer and why?

Method

Participants

We recruited 12 participants through UserTesting.com to perform the task on 2 different MoodTracker prototypes. The majority of our participants were from the United States and Canada, while 2 were from the United Kingdom and 1 was from Israel. Our participants included 7 females and 5 males, while 9 of the 12 participants were in their 20s and 30s, the remaining being 40+ years old. Prior to the study, we asked our participants to fill out a screener questionnaire with the following questions:

- **Which of these activities do you track?**

Fitness [May Select]

Mood [May Select]

Water or Food Intake [May Select]

A Health Condition [May Select]

Journal Thoughts and Ideas [May Select]

None of the above [May Select]

- **What is your age range?**

< 18 [Reject]

18-24 [Accept]

25-34 [Accept]

35-44 [Accept]

45-54 [Accept]

55+ [Accept]

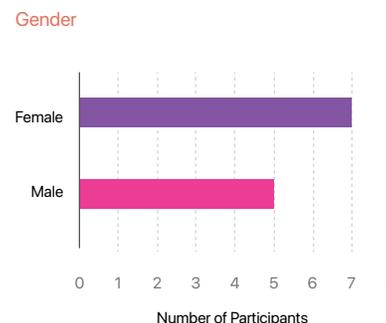
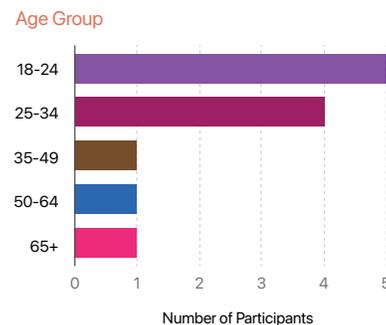
- **What gender do you identify with?**

Male [Accept]

Female [Accept]

Other [Accept]

None of the above [Reject]



Method (contd.)

Session Outline and Timing

The test sessions were approximately 10 minutes long. Testers digitally signed a consent form, completed the pre-test questions prior to the tasks, followed by post-task and post-test questions. These unmoderated, remote sessions were conducted through UserTesting.com.

Procedure/Task List

Our team tested the current MoodTracker website versus our new prototype, focusing on the correct path to take when signing up for MoodTracker. One of the prototypes was a duplicate of the original site, while our group created the second prototype based on our previous usability test findings and recommendations. Using within-subjects study design, each of our 12 participants were shown each prototype. Our team decided to alternate which tests users will see first, hoping to prevent skewed results.

Prior to completing any tasks, we asked our participants to read and digitally sign our consent form (see appendix) by clicking "Next" in the UserTesting interface. After signing, participants began the test by completing the task and questions for each prototype. After completing the tasks, we asked the participants a post-test question to assess which prototype they preferred.

Method (contd.)

Task: Become a new member in MoodTracker

Scenario: Imagine that you've been feeling down for several weeks and can't exactly understand why. After a visit with your doctor, they suggest using MoodTracker to help keep track of your happiness levels. Go to www.Moodtracker.com and become a new user by setting up a free account.

Post-Task Questions:

- On a scale of 1 to 5, how confident are you that you successfully completed the task? 1 being the least confident, 5 being the most confident. Please explain your rating.
- Was the interface lacking any information you feel would have helped you to complete the task better? Please explain your experience.

Post-Test Question:

- Was there a version of the prototype that was easier to use? Please explain your answer.

Evaluation measures

The following evaluation measures in addition to detailed notes were taken when reviewing the evaluation of the two prototypes:

- Within group A|B testing (new pages vs. existing ones). Measuring time taken, task completion, confidence level and prototype preference.
- The hypothesis is there is no difference in time on task; the alternative is there is a difference between the two prototypes
- Dependent variables are time to complete task and task completion

Method (contd.)

Statistical measures

For comparing completion times we performed a paired T-test. After gathering the data:

- Checked where our data was normally distributed by performing a q-q test in SPSS statistical software.
- Once we knew the data followed a normal distribution curve, we performed the t-test by completing a Paired T-test. Our two hypothesis are as follows:
 - » H_0 : There is no significant difference in the time spent to complete the task of becoming a member between the two prototypes
 - » H_1 : Prototype 2 (Proposed Design) was faster in the time spent to complete the task of becoming a member versus Prototype 1 (Original Design)

Results

Test Objective: How easily can users join MoodTracker?

Task 1: Become a new member in Moodtracker

Scenario: Imagine that you've been feeling down for several weeks and can't exactly understand why. After a visit with your doctor, they suggest using MoodTracker to help keep track of your happiness levels. Go to www.Moodtracker.com and become a new user by setting up a free account.

Performance Results:

Qualitative Data

9/12*

Number of participants that completed tasks on both prototypes

7/12

participants preferred the second prototype compared to the original website



P1 - Prototype 1 - Original Design
P2 - Prototype 2 - Proposed Design

Quantitative Data

A paired-samples t-test was conducted to compare the time spent completing the task of becoming a member in Moodtracker using prototype 1 and prototype 2. The results were not statistically significant in the scores for prototype 1 (M=125.5, SD=99.628) and prototype 2 (M=84.67, SD=47.854) conditions; $t(9)=1.815$, $p = 0.107$. These results suggest that there is no difference in the time spent to complete the task of becoming a member between the two prototypes.

*Note: Total 3 participant did not complete one of the two prototypes, so the final number of participants that completed both prototypes was nine



Participant Quotes

The plans page has a significantly better format than the other prototype. The new interface was not lacking anything to complete the task better. It would be cool to have a compare plans button to compare them side by side

Text needs to be bigger would be hard to read for older person. Site can be more appealing



Average task completion time

2.09 min

PROTOTYPE 1 ORIGINAL DESIGN

1.41 min

PROTOTYPE 2 PROPOSED DESIGN



Task Confidence Rating



The average rating of 4.8 on how confident participants were that they successfully completed the task

Task Details

[Dive deep with all the details here](#)

Findings and Recommendations

After the completion of both tests, we asked the participants to answer a few post-task questions about their confidence level and information that was lacking in the interface.

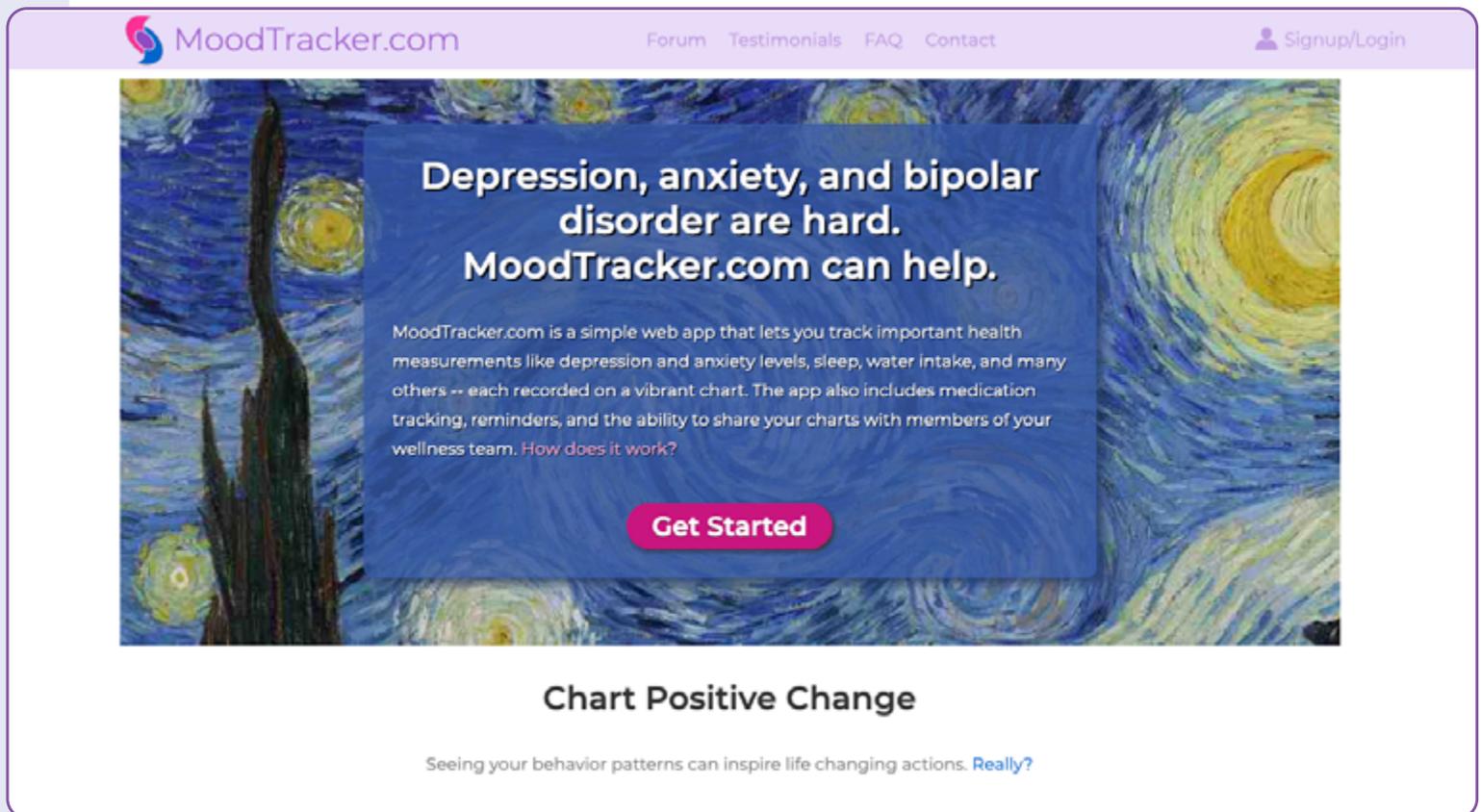
On a scale from 1 to 5, 1 being least confident and 5 being most confident, all of our participants but 1, who gave a 3 (for the existing website), rated their confidence level a 5 for both tests. While most of the participants provided a high confidence rating, only 7 out of 12 participants completed the task successfully for the existing website. While 9 out of 12 participants successfully completed the redesign. 3 participants mentioned in the redesign that they liked how all the plans were displayed rather than having to scroll down to see the basic plan. We noticed that 2 participants scrolled partially and then selected a paid plan on the existing site. 8 out of our 12 participants preferred the redesign, while the other 4 participants felt there was no difference.

Based on the results and our participants feedback, we have listed a few recommendations that will help improve the flow of creating a new user account:

- 1.** On the MoodTracker homepage, increase the font size to 14 or higher to increase readability
- 2.** Adding a "sign up" button next to the login on the homepage
- 3.** Condensing the different plans to avoid long scrolling lists

Findings and Recommendations (contd)

2. Adding a "sign up" link next to the login on the homepage



Findings and Recommendations (contd)

3. Condensing the different plans to avoid long scrolling lists

Select Your Plan

Plan Name	Price	Key Features
Basic Plan	FREE	Track Five Customizable Measurements: 1. Mood 2. Expressed Gratitude 3. Sleep Hours 4. Meditation or Prayer 5. Visualized or Planned Area Charts Email Reminders Journal Entries
Advanced Plan	\$4.95 Per Month 10 DAY FREE TRIAL	Track Five Customizable Measurements: 1. Social Interactions 2. Belongingness 3. Water Litres 4. Sunlight Minutes 5. Inspirational Study Quality Summary Bar Charts Medications Text Message Reminders Wellness Team Friend Roles Journal Entries
Complete Plan	\$9.95 Per Month 10 DAY FREE TRIAL	Track Unlimited Customizable Measurements: 1. Smiles 2. Close Social Interactions 3. Exercise Quality 4. Sleep Quality 5. Food Healthiness 6. Practiced Mindfulness 7. Followed Budget Mentor Roles

Retrospective

While working on this project we discovered a few opportunities and learnings that we would like to highlight.

- 1.** While thinking out loud gave excellent qualitative data, it did distract participants from completing the task quickly.
- 2.** There was an opportunity to ask more questions during the post-task questionnaire, which could further support our recommendations.

Future features

Offering various languages to make the product more inclusive by providing the services to users from countries.

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Detailed Results - Task 1

Prototype 1	
Performance Results: Quantitative Data	
Task Success	<p>**Seven out of 12 participants completed the task successfully using the original design; 2 failed to finish the task. Although 7 participants completed the task, there were areas of confusion such as choosing between finding happiness and managing mental health, selecting a plan, and understanding the easiest way to begin the sign-up process.</p> <p>**Note: One participant who completed the test on prototype 1, did not complete prototype 2, so the final number of participants that completed BOTH prototypes was nine. Therefore, for our statistical analysis of paired-t tests, we utilized the 9 participants who completed both comparison tests.</p> <p>(P1=failed to finish, p2=success, P3=failed to finish, P4=success, P5=success, P6=failed, P7=success, P8=success, P9=success, P10=failed, P11=failed, P12=success)</p>
Errors	<p>One participant stopped the task after the page title, "What do you want help with?" A second participant stopped after landing on the Select Plan page, and never selected a plan.</p> <p>The three additional participants who failed the task did so because they selected the Complete paid plan, instead of the Free Basic Plan. This may be in part because some participants did not scroll down the page to see all of the plans.</p>
Time on Task	<p>One participant who failed the task, stopped the test at 41 seconds; the other participant stopped at 13 seconds.</p> <p>The average task completion time of the remaining **10 participants was 1.98 minutes.</p> <p>**Note: When factoring out the one participant who did not complete tests for both prototypes, the average task completion time of the 9 participants who completed both prototype tests was 2.09 minutes.</p> <p>$(2 \times 60 + 58 = 178) + (1 \times 60 + 6 = 66) + (1 \times 60 + 24 = 84) + (1 \times 60 + 3 = 63) + (1 \times 60 + 14 = 74) + (2 \times 60 + 36 = 156) + 42 + (1 \times 60 + 10 = 70) + (1 \times 60 + 36 = 96) + 6 \times 60 + 4 = 364 = 1193 / 10 = 119.3 \text{ seconds} / 60 = 1.98$</p> <p>Or, $1130 / 9 = 125.5 \text{ seconds} / 60 = 2.09 \text{ minutes}$.</p>
Subjective Rating	<p>When asked, "On a scale of 1 to 5, how confident are you that you successfully completed the task? 1 being the least confident, 5 being the most confident" eleven out of 12 participants rated their confidence level as 5, most confident; one participant gave a neutral rating of 3 due to not initially seeing the "Registration Completed!" message at the top of the page</p>

Detailed Results - Task 1

Prototype 1	
Performance Results: Qualitative Data	
Description of Actions	<p>All twelve participants began the task on the MoodTracker homepage. Ten out of 12 participants selected the Get Started button on the homepage; one selected My Account and one selected Login.</p> <p>Participants were almost evenly split in their choice of what they wanted help with, as well as which condition they chose. Five out of twelve participants selected "Mental Health Management"; six participants selected "Finding More Happiness"; one participant did not select either choice because they stopped the task and never made it to the page.</p> <p>Six out of twelve participants selected "Anxiety" as the condition they wanted help with. Five participants selected "Depression"; one participant did not make a selection because they stopped the task and never made it to the page.</p> <p>(*P1: start on homepage -> Get Started -> Mental Health Management -> Yes, Female Reproductive Health -. Anxiety, stops and fails the task. **Note: this user stopped the task midway through the test, and therefore was excluded from the paired t-test statistical analysis)</p> <p>(*P2: start on homepage -> Get Started -> Finding More Happiness -> Depression -> Free Basic Plan)</p> <p>(P3: start on homepage -> Get Started -> stops and fails the task. **Note: this user stopped the task midway through the test, and therefore was excluded from the paired t-test statistical analysis)</p> <p>(P4: start on homepage -> My Account -> Sign-Up under Login form -> Mental Health Management -> Depression -> Free Basic Plan -> New User Registration)</p> <p>(P5: start on homepage -> Login link -> Get Started -> Mental Health Management -> Anxiety -> Free Basic Plan -> Sign-Up New User Registration)</p> <p>(*P6: start on homepage -> Get Started -> Finding More Happiness -> Depression -> Complete Plan (user did not scroll) -> Sign-Up New User Registration. failed task, did not select free plan**Note: this user only completed prototype1, and therefore was excluded from the paired t-test statistical analysis)</p> <p>(P7: start on homepage -> Get Started -> Finding More Happiness -> Yes, Female Reproductive Health -> Depression -> Free Basic Plan -> Sign-Up New User Registration)</p> <p>(P8: start on homepage -> Get Started -> Mental Health Management -> Yes, Female Reproductive Health -> Anxiety -> Free Basic Plan -> Sign-Up New User Registration)</p> <p>(P9: start on homepage -> Get Started -> Mental Health Management -> No, Female Reproductive Health -> Depression -> Free Basic Plan -> Sign-Up New User Registration)</p> <p>(P10: start on homepage -> Get Started -> Finding More Happiness -> Yes, Female Reproductive Health -> Anxiety -> Complete Plan -> Sign-Up New User Registration. failed task, did not select free plan)</p> <p>(P11: start on homepage -> Get Started -.Finding More Happiness -> Yes, Female Reproductive Health -> Anxiety -> Complete Plan -> Sign-Up New User Registration: failed task, did not select free plan)</p> <p>(P12: start on homepage -> Get Started -> Finding More Happiness -> No, Female Reproduction -> Anxiety -> Free Basic Plan - Sign-Up New User Registration).</p>

Detailed Results - Task 1

Prototype 1	
Performance Results: Qualitative Data	
Design Preference	<p>Seven out of 12 participants indicated they preferred the new, redesigned prototype; three did not indicate a preference; one participant did not complete the test and therefore could not state their preference; one participant did not realize there was a difference and thought the second test was a mistake.</p> <p>(P3 did not indicate a preference; P1 liked both and did not indicate a preference; P3 did not indicate a preferences as they did not complete the task; P4 preferred the new design; P5 said both were equal, no preference; P6 didn't realize there were no different prototypes; P7 preferred the new prototype; P8 preferred the new prototype; P9 preferred the new prototype; P10 preferred the new prototype; P11 preferred the new prototype; P12 preferred the new prototype.</p>
List of Obstacles	<p>The greatest obstacle to successfully completing the task was due to participants not scrolling down on the Select Plan page. Because participants did not see all of the plans, they only selected the first plan that was within their view. Of the participants that were successful, many commented that the amount of scrolling on the plan page was excessive, the page did not make good use of the screen real estate, and that the free plan should be listed on top.</p> <p>One participant expressed a concern that she had to choose between "finding more happiness" and "mental health management" and wondered why she couldn't do both?</p>
User comments/ concerns	<p>"This is bad, you shouldn't have to scroll down and it's scummy to have the most expensive on the top. You need all the plans visible on the screen." - P2</p> <p>"I initially did not even notice the 'Registration Completed!' on the top. My eyes looked straight at this thing [the username/password Login form]. It was not clearly apparent to me that registration was completed."- P10</p> <p>"To make it more appealing, change it to warm colors like orange and yellow" - P3</p> <p>"Would have preferred to see the free option first, rather than scrolling down the page." - P4</p> <p>"I would have liked to start out with the basic plan and see how much I really like it before I paid for the service"- P7</p> <p>"The comparison should be a horizontal layout to make it easy to view 2. Fonts needs to be bigger" -P8</p> <p>"The only part I thought about at the very beginning...was like do you want to find more happiness or manage your mood. Why does it have to be either / or? What if I want both?" -P11</p> <p>"You've got all this available real estate, right, just a lot of wasted space. Could be filled I think more cleanly if you lay it out all horizontally. That would be my suggestion. You can still delineate between them (a separator line. As far as the content. The content looks the same. Although, the order, I would have thought that the free one would have come first. Where the most basic option would be at the top and the most advanced one at the bottom. That's what I expect is more standard and conventional with most apps." -P12</p>

Detailed Results - Task 1

Prototype 2	
Performance Results: Quantitative Data	
Task Success	Nine out of twelve participants successfully completed the task; two failed to finish the test; one participant selected the "Complete Plan" instead of the "Free Basic Plan." (P1=success, p2=success, P3=failed to finish, P4=success, P5=success, P6=failed to finish, P7=success, P8=success, P9=success, P10=failed, P11=success, P12=success)
Errors	One participant stopped the task after the page title, "What do you want help with?" A second participant randomly clicked through the pages because he thought the test was a mistake and a repeat of the first test. A third participant who failed the task did so because she selected the "Complete" paid plan, instead of the "Free Basic Plan". This may be in part because the participant said they wanted to see the full functionality of what the site offers.
Time on Task	One participant who failed the task, stopped the test at 2 minutes 40 seconds; the other participant stopped at 8 seconds. The average task completion time of the remaining **10 participants was 1.44 minutes. **Note: When factoring out the one participant who did not complete tests for both prototypes, the average task completion time of the 9 participants who completed both prototype tests was 1.41minutes. $(1 \times 60 + 45 = 105) + (2 \times 60 + 24 = 144) + (2 \times 60 + 40 = 160) + (1 \times 60 + 15 = 75) + (1 \times 60 + 25 = 85) + (8) + 30 + 45 + (1 \times 60 + 12 = 72) + 49 + (1 \times 60 + 24 = 84) + (2 \times 60 + 58 = 178) = 867 / 10 = 86.7 \text{ seconds} / 60 = 1.44 \text{ minutes. (this calculation excluded the two participants who did not complete the test).}$ Or, $762 / 9 = 84.66 \text{ seconds} / 60 = 1.41 \text{ minutes.}$
Subjective Rating	When asked, "On a scale of 1 to 5, how confident are you that you successfully completed the task? 1 being the least confident, 5 being the most confident" all participants rated their confidence level as "5, most confident".

Detailed Results - Task 1

Prototype 2	
Performance Results: Qualitative Data	
Description of Actions	<p>All twelve participants began the task on the MoodTracker homepage. Eight out of 12 participants selected the Get Started button on the homepage; three selected Login, and one participant was excluded because they were randomly clicking through the prototype by accident (thought it was the same as the first prototype).</p> <p>Nine out of twelve participants correctly selected the Free Basic Plan option; two failed to finish the test; one participant selected the Complete paid plan. All ten participants who completed the task landed on the Registration Completed confirmation page.</p> <p>Six out of twelve participants selected "Anxiety" as the condition to receive help with; three selected "Depression"; one participant who wasn't sure what to select chose "Bipolar"; two participants did not make a selection because they never finished the test.</p> <p>(*P1: start on homepage -> Get Started -> Yes, Female Reproductive Health - . Anxiety ->Free Basic Plan -> Sign-Up New User Registration, lands on Completion Confirmation screen.. **Note: Although this participant successfully completed the task on this Prototype 2, because they stopped the test on Prototype 1, they were excluded from the paired t-test statistical analysis)</p> <p>(P2: start on homepage -> Get Started -> No, Female Reproductive Health ->Depression -> Free Basic Plan -> Sign-Up New User Registration, lands on Completion Confirmation screen)</p> <p>(P3: start on homepage -> Get Started -> stops and fails the task. **Note: this user stopped the task midway through the test, and therefore was excluded from the paired t-test statistical analysis)</p> <p>(P4: starts on homepage -> Login -> Sign Up under dropdown -> Anxiety -> Free Basic Plan -> Sign Up New User Registration, lands on Completion Confirmation screen)</p> <p>(P5: starts on homepage -> Get Started -> Anxiety -> Free Basic Plan -> Sign Up New User Registration, lands on Completion Confirmation screen).</p> <p>(P6: randomly clicks through all the pages. fails the task. **Note: this user thought this prototype was the same as the first, and just clicked through all the page and therefore was excluded from the paired t-test statistical analysis)</p> <p>(P7: starts on homepage -> Login -> Signup -> Yes, Female Reproductive Health -> Depression -> Free Basic Plan -> Sign-Up New User Registration, lands on Completion Confirmation screen)</p> <p>(P8: starts on homepage -> Get Started -> Sign up -> Yes, Female Reproductive Health -> Anxiety -> Free Basic Plan -> Sign Up New User Registration, lands on Completion Confirmation screen)</p> <p>(P9: starts on homepage -> Login -> Signup -> No, Female Reproductive Health -> Depression -> Free Basic Plan -> Sign Up New User Registration, lands on Completion Confirmation screen)</p> <p>(P10: starts on homepage -> Get Started -> Yes, Female Reproductive Health -> Anxiety -> Complete Plan -> Sign Up New User Registration, lands on Completion Confirmation screen failed task, did not select free plan)</p> <p>(P11: starts on homepage -> Get Started -> Yes, Female Reproductive Health -> Bipolar Disorder -> Free Basic Plan -> Sign Up New User Registration, lands on Completion Confirmation screen)</p> <p>(P12: starts on homepage -> Get Started -> No, Female Reproductive Health -> Anxiety -> Free Basic Plan -> Sign Up New User Registration, lands on Completion Confirmation screen)</p>

Detailed Results - Task 1

Prototype 2	
Performance Results: Qualitative Data	
Design Preference	<p>Seven out of 12 participants indicated they preferred the new, redesigned prototype; three did not indicate a preference; one participant did not complete the test and therefore could not state their preference; one participant did not realize there was a difference and thought the second test was a mistake.</p> <p>"Yes, the first one. My main reason for this was described in the previous step regarding the orientation of the plan/option layouts." -P12</p> <p>"I felt like prototype B had more options. There was more to think about, but it was also more straightforward. Do I want to be happier, or do I want to be better managed? I felt like I got a better idea of how the moodtracker would help me and how to gauge progress. I liked version 2 better. Number 2 has my vote for sure. It was more straightforward. It supported the idea for the app better and showed the value over time and how to track that way better than the first one did. It was less ambiguous. So I would go with that second one. I don't have any questions. My suggestion would be to just go with the second one." -P11"</p> <p>"Prototype 2 was easier to use because the plans were all listed out in one screen. i.e. without having to scroll the webpage to view the plan options. Additionally, prototype 2 had a very simple "registration successful" page, which left no question on my end as to whether I was able to successfully complete the login process." -P10</p>
List of Obstacles	<p>Although two participants did not finish the test, and one participant selected the Complete plan because she wanted to see the "maximum capability of what the website and service offers," no major obstacles were encountered.</p>

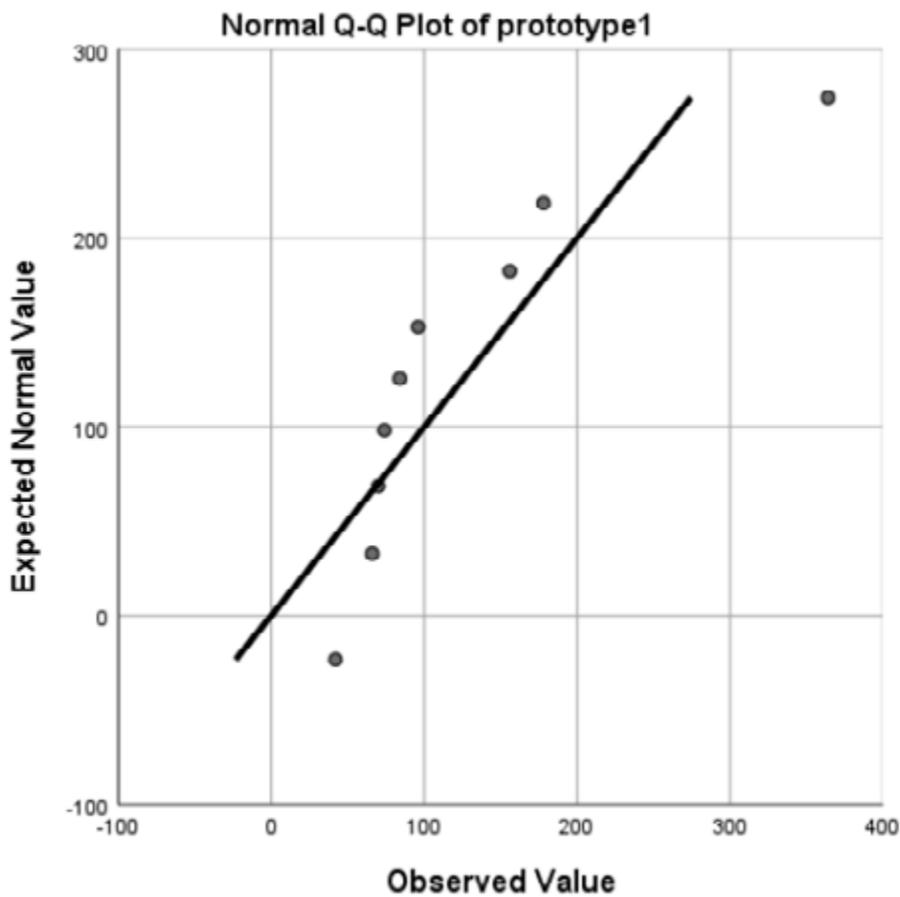
Detailed Results - Task 1

Prototype 2	
Performance Results: Qualitative Data	
User comments/ concerns	<p>"I'm confident in it because there's a confirmation screen that says "Registration Completed" so that's why I'm most confident." The sign up experience was very easy and streamlined because the sign up process did not require me, as a user, to input an excessive amount of information when signing up for the website." -P10</p> <p>"It was a pretty standard login process." - P2</p> <p>"The plans page has a significantly better format than the other prototype. The new interface was not lacking anything to complete the task better. It would be cool to have a compare plans button to compare them side by side." - P3</p> <p>"The task was very easy and straightforward" - P4</p> <p>"Good that you give clear concise descriptions of the differences here. I was going to say if you wanted to save real estate, you could knock out the redundant stuff. Could say the "Basic Plan, plus whatever else that's unique to that specific plan. If I want the basic plan, I just click on this button, assume this is a button. Okay" -P12</p> <p>"I would recommend putting a sign up button next to the login button" -P5</p> <p>"Usually I see a sign-up button somewhere, too. Like a text, that's as a hyperlink next to the Login button. But I don't see any of that so I'll click on Get Started. I think that's fine, too." -P12</p> <p>"I would have trimmed down certain descriptions, specifically that of the individual plans. For example, removing redundant information in more advanced plans and saying something like, 'Includes: Basic Plan + additional "features"' -P12</p> <p>"Color scheme is okay. This pink background I guess is alright. It was a little hard to tell at first glance that one of these [user points to button] the style scheme that is used for the buttons was actually indicative of a button." -P12</p> <p>"Text needs to be bigger would be hard to read for older person. Site can be more appealing" -P8</p> <p>"On this version I get more plan info. So, 5 dollars per month, 10 dollars per month, or Free. Let's see what's the difference: 'expressed gratitude, sleep, visualized or planned, ["visualized or planned what?" lol], social belongingness, water liters, sunlight minutes...[oh my gosh, sunlight minutes? I don't think I've ever tracked that before. That could be a thing]', social interactions, exercise quality, food healthiness, followed budget, oh my gosh. It's just getting like more and more adult the further right you go. Smiles...I don't know anyone who tracks smiles. That would be hard. Micro-managing. Okay [user hovers over the Free Basic Plan button] we'll just sign up for the free one for now." -P11</p> <p>"The only thing I'd say the interface was lacking was an "interactive tour" that guides users to visually understand the features offered by the various plans available on Moodtracker.com." -P10</p>

Prototype 1 (Original Design)

Prior to performing a paired t-test we checked if the data follows a normal distribution.

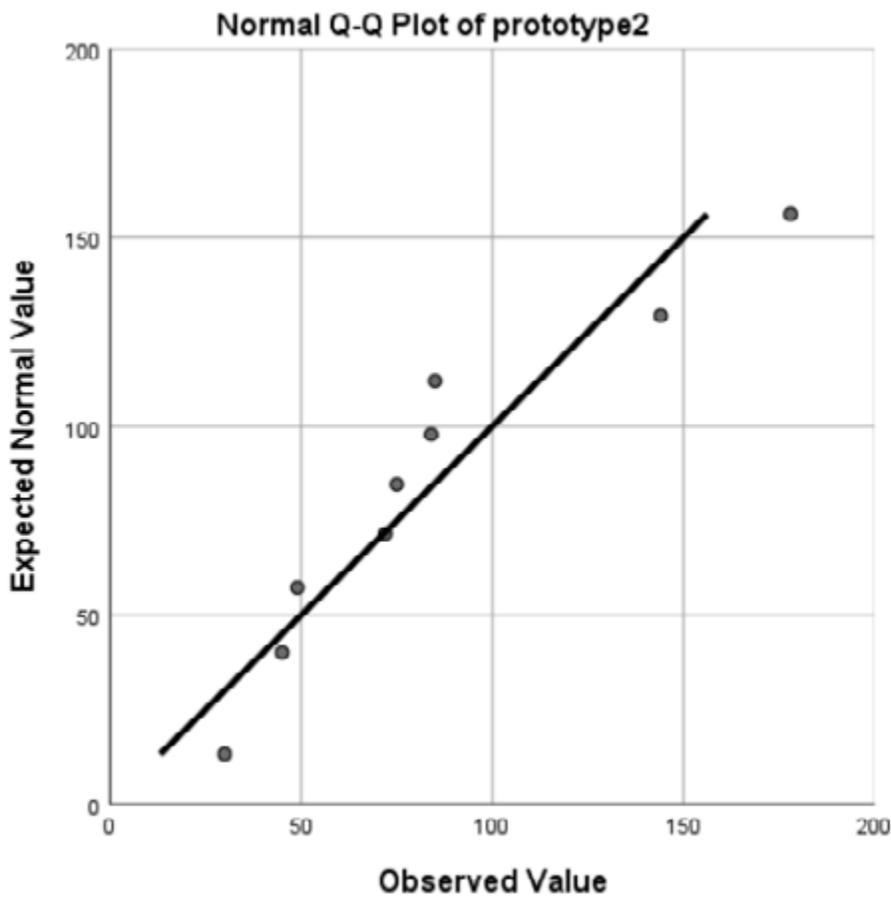
	N	Minimum	Maximum	Mean	Std. Deviation	Variance
Prototype1	9	42	364	125.56	99.628	9925.778
Valid N (listwise)	9					



Prototype 2 (Proposed Design)

Prior to performing a paired t-test we checked if the data follows a normal distribution.

	N	Minimum	Maximum	Mean	Std. Deviation	Variance
Prototype2	9	30	178	84.67	47.854	2290
Valid N (listwise)	9					



Paired T-test results

Performed a Paired T-test using SPSS.

Paired Samples Statistics					
		Mean	N	Std. Deviation	Std. Error Mean
Pair 2	prototype1	125.56	9	99.628	33.209
	prototype2	84.67	9	47.854	15.951

Paired Samples Correlations				
		N	Correlation	Sig.
Pair 1	prototype1 & prototype2	9	0.802	0.009
	prototype2	84.67	9	47.854

Paired Samples Test									
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		t	df	Sig. (2-tailed)
					Lower	Upper			
Pair 1	prototype1 - prototype2	40.889	67.573	22.524	-11.052	92.83	1.815	8	0.107

Completion Times

Comparison Study Evaluation			
Name of Participant	Researcher Name	Time of Completion Original Prototype (P1)	Time of Completion New Prototype (P2)
Participant 2 daylancing (29 yrs old, male)	Crystal	2:58	2:24
Participant 4 tahoefan7171 (23 yrs old, female)	Tim	1:06	1:15
Participant 5 cabel (29 yrs old, female)	Tim	1:24	1:25
Participant 7 njdc29 (21 Female)	Rahul	1:14	0:30
Participant 8 collegegurl101 (20 Female)	Rahul	2:36	0:45
Participant 9 Pbandb (47 Male)	Rahul	0:42	1:12
Participant 10 Testeron (30 Female)	Cindy	1:10	0:49
Participant 11 MillyMouse696 (32 Female)	Cindy	1:36	1:24
Participant 12 KindRabbit6613 (26 Male)	Cindy	6:04	2:58



ADULT CONSENT TO PARTICIPATE IN RESEARCH

MoodTracker Study

Principal Investigators: Crystal Koo, Tim Lattimer, Cindy Aronson, and Rahul Kapoor (Graduate Students)

Institution: DePaul University, Chicago, Illinois, USA

Department, School, College: College of Computing and Digital Media

Faculty Advisor: Enid Montague, Ph.D. - College of Computing and Digital Media, DePaul University

What is the purpose of this research?

We are asking you to participate in a research study because our group wants to gain more insight into the existing Mood Tracker website and discover any significant usability issues that may block users from completing the website's essential tasks. This study is being conducted by Crystal Koo, Tim Lattimer, Cindy Aronson, and Rahul Kapoor, all graduate students at DePaul University. This study is being supervised by our faculty advisor, Enid Montague, Ph.D. We hope to include a minimum of 4 participants.

Why are you being asked to be in the research?

You are invited to participate in this study because we have determined you are a target user based on your answers to our screener questions, as they match the characteristics we are looking for in participants.

What is involved in being in the research study?

If you agree to be in this study, we will ask you to participate in a series of tasks within the MoodTracker application. After a few introductory questions, we will continue with the set of tasks based on a series of hypothetical scenarios. The observation will be conducted via a recorded video call. We will record notes from the observations and your response to the questions. We will follow up on the observation with a short wrap up interview, and the video will be shared amongst the group and faculty advisor.

Consent Form (Contd.)



How much time will this take?

This study will take approximately 40 minutes.



Are there any risks involved in participating in this study?

This study involves no risks. You may feel uncomfortable or embarrassed while answering the questions. You do not have to answer any questions you do not want to.

Are there any benefits to participating in this study?

You will not personally benefit from being in this study. Your contribution may improve the application.

Are there any costs to me for being in the research?

There are no financial costs in participating in the research.

Can you decide not to participate?

Your participation is voluntary; you can choose not to participate. There will be no consequences, penalties, or loss of benefits if you decide not to participate or withdraw at any point.

Who will see my study information and how will the confidentiality of the information collected for the research be protected?

The research records will be kept and stored securely. Your information will be combined with information from other people taking part in the study. When we write about the study or publish a paper to share the research with other researchers, we will write about the combined information we have gathered. We will not include your name or any information that will directly identify you. Some people might review or copy our records that may identify you in order to make sure we are following the required rules, laws, and regulations.

For example, the DePaul University Institutional Review Board, and/or the Data and Safety Monitoring Board may review your information. If they look at our records, they will keep your information confidential. At the end of the study, recordings and documentation will be destroyed.

Consent Form (Contd.)



Who should be contacted for more information about the research?

If you have any questions or concerns about the study, please feel free to contact one of the researchers below or their faculty advisor using the contact information listed below:

Tim Lattimer

tim.lattimer@alumni.depaul.edu

Cindy Aronson

Cindy.aronson@sbcglobal.net

Dr. Enid Montague,

Faculty Advisor

emontag1@cdm.depaul.edu

Crystal Koo

crystalkoo510@gmail.com

Rahul Kapoor

rahulkapoor@gmail.com

Statement of Consent from the Subject:

I have read the above information. I have had all my questions and concerns answered. By giving my recorded verbal permission, I indicate my consent to be in the research.

Type name: _____

Date: _____

Team Work Effort

We equally worked on the summaries of each section. Each person wrote up a task and contributed to each section of the report. All reviewed each others work and provided feedback.

Name	Tasks
Crystal Koo	<ul style="list-style-type: none">• Executive Summary• Recommendation and Finding Sections• Recruited 3 users through usertesting.com
Cindy Aronson	<ul style="list-style-type: none">• Detailed Results Section• Recruited 3 users through usertesting.com
Tim Lattimer	<ul style="list-style-type: none">• Purpose and Methods Sections• Recruited 3 users through usertesting.com
Rahul Kapoor	<ul style="list-style-type: none">• Designed both prototypes• Recommendation and Finding Sections• Assisted with Statistics• Recruited 3 users through usertesting.com