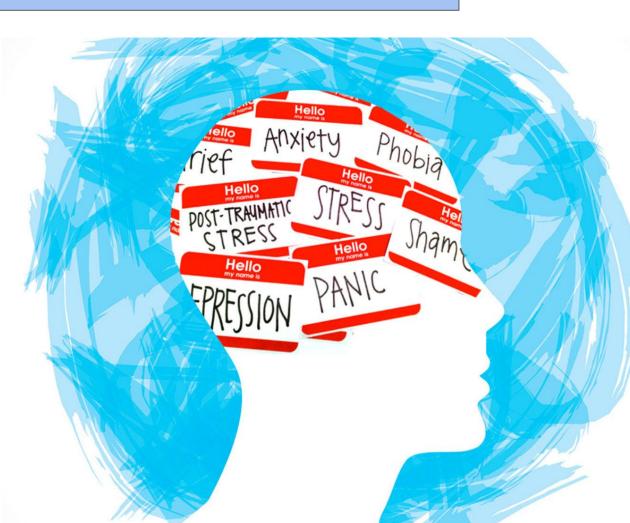
Project Cerebral

Alexsandro Barbosa, Sam Mankin, Cameron Williams Santa Monica High School

Problem Statement

Self diagnosis is an extremely harmful and misleading process that many adults in the U.S. (ages 18-29) partake in. Harvard medical experts in numerous studies have studied the perceived illnesses people diagnose from themselves versus the actual issues that people have. This issue isn't limited to just physical ailments. Incorrect self-diagnosis is most common in mental health situations, with only a 34% rate of correct analysis.



Justification

The resources that already exist and are ready to be utilized reduce the total cost by a significant margin, but we still need to sink in time and effort in order to make sure those resources are willing to cooperate with our ideas. The size of the target market, as discussed previously, is the student body (of both local high schools and local colleges). In a more realistic view, we think if our project reaches at least a quarter of Santa Monica High School's student population, it will have helped enough to be counted as a success. Our preliminary plan to accomplish this, however, is still in the works. We plan to release a survey that gauges interest within the student body for a more accurate and easy mental health resource. Currently, many students feel reluctant to do so (based off of a small sample size collected by our team's individuals) due to the amount of effort needed to actually gain assistance with mental health ailments.

Similar Solutions

Similar Solutions to ours that are currently in place are Teen Line, which is communication service in which people can talk to other students. The Youth Mental Health Plan focuses on talking to the parents rather than teens/children, but still focuses on them. Better Help is a online counselor service that brings help in form of a one on one with a patient for a fee.



Design Criteria

Due to the special circumstances of our solution, testing certain criterias on materials is not necessary as the cerebral project has no physical solution at the moment. However we can still input criterias for questions as well as how well the survey is being circulated. Our group wants to justify why a solution is better kept ethereal then physical at the present moment. In short mental health as well as misdiagnosis require heaps of data to analyze in order to accurately sum a physical solution, in most cases an individual person's reflection with help from a therapist and others is the best solution. For us we are working on a physical representation of this process through the data being continuously collected with our surveys.

Design Process

3/23/2021 9:22:11 Yes	Yes		Sometimes	At home with family or in Yes	Yes	Yes	No
3/23/2021 9:22:21 Yes	Yes		Sometimes	When I am in a setting w Yes	Yes	Yes	No
3/23/2021 9:23:17 No	Yes		Sometimes	When I'm alone or with p Yes	Yes	Yes	No
4/29/2021 16:47:18 Yes	Yes		Often	my room Yes	No	No	No
4/29/2021 16:49:41 Yes	Yes		Sometimes	With my friends is when I Yes	Yes	Yes	No
4/29/2021 16:50:19 Yes	No	No	Sometimes	with my friends No	not getting scammed by Yes	Yes	No
4/29/2021 16:53:42 No	No	No	Never	I never feel this way No	not be forced to play mus Yes	No	No
4/29/2021 16:54:26 Yes	Yes		Often	I feel I can be myself in n Yes	No	No	No
4/29/2021 16:59:44 Yes	Yes		Sometimes	When i'm talking to my fri No	I haven't been able to pul Yes	Yes	Yes
4/29/2021 16:59:54 Yes	Yes		Never	When I'm dueling in duel Yes	No	No	No
4/29/2021 17:01:08 No	No	No	Sometimes	I can't think of anywhere Yes	No	No	No
4/29/2021 17:01:13 No	No	No	Sometimes	When im at home with m Yes	No	No	No
4/29/2021 17:03:05 Yes	Yes		Often	When I hang out with my Yes	No	No	No
4/29/2021 17:05:12 Yes	Yes		Sometimes	I feel I can be myself aro Yes	No	No	No
4/29/2021 17:09:34 No	Yes		Sometimes	with my mom Yes	Yes	Yes	Yes
4/29/2021 18:23:35 Yes	Yes		Never	With friends and in privat No	Get a job and learn a skil Yes	Yes	No
4/29/2021 18:33:57 Yes	Yes		Never	Any time, home Yes	Yes	Yes	No
4/29/2021 18:39:26 Yes	Yes		Never	At home. Yes	Yes	Yes	No
4/29/2021 18:49:22 No	Yes		Sometimes	With my parents Yes	Yes	Yes	Skip
4/29/2021 18:51:29 No	No	No	Never	never No	nothing Yes	Yes	Skip
4/29/2021 18:51:39 Yes	Yes		Often	With my friends Yes	Yes	Yes	Skip
4/29/2021 18:51:40 No	Yes		Often	When I am alone No	I feel like I could open up Yes	No	No
4/29/2021 18:52:32 Yes	Yes		Often	Almost anywhere Yes	No	No	No
4/29/2021 18:52:38 No	No	No	Never	By myself No	I don't know Yes	Yes	Yes
4/29/2021 19:01:55 No	Yes	0.000	Sometimes	At home No	pick up hobbies, and spe Yes	Yes	No
4/29/2021 19:06:59 No	Yes		Sometimes	I always have someone, No	I think having a passion i Yes	No	No
4/30/2021 9:19:27 Yes	Yes		Never	Almost never and nowhe No	If I were to get a "fresh st Yes	Yes	Yes
4/30/2021 9:23:31 No	Yes		Sometimes	Late night at discord chal Yes	Yes	Yes	No
4/30/2021 9:47:45 No	Yes		Often	At night time out in nature No	Get over my issues that (Yes	Yes	No
4/30/2021 11:14:17 No	Yes		Sometimes	Late night at discord chal Yes	Yes	Yes	No
4/30/2021 13:04:32 Yes	Yes		Sometimes	Outside in an area far aw Yes	Yes	Yes	No
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Solution

PLTW Capstone Wellness Survey

PLTW Capstone Wellness Survey
This is an Engineering PLTW Capstone Project. As you complete this survey please be honest and know that the information you provide will be treated with confidentiality and may be submitted anonymously, unless you request a referral. The information that you provide will be extremely helpful to school personnel in designing programs and outreach for your peers. * Required
Do you feel the amount of socializing you have done since March of last year has been enough for you? *
Yes
○ No
Next

PLTW (* Required	Capstone Wellness Survey
PLTW Capsto	one Wellness Survey
When and wo	here do you feel you can be the most open and true to yourself and
Your answer	

PLTW Capstone Wellness Survey *Required
PLTW Capstone Wellness Survey
Are you happy with the way things are in your life? *
O Yes
O No
Back Next

PLTW Capstone Wellness Survey
PLTW Capstone Wellness Survey
Since you are not happy what changes do you think could improve your life?
Your answer
Back Next

Testing Procedures

The best way to get data from a test is to have people take the survey and record our findings are see it's value. The test would be a series of questions with free form responses to get the best answers from the ones taking the test. Depending on what we get out of the survey we will know what we need to change and improve. What we would need in order to do the test is four things. First is a select population, this would be willing participants from the student body. Second would be to deliver an invitation in the form of a link so those willing could take the survey. Third would be to set a deadline for the survey. Finally we would need to collect data and aggregate the results. This would include a summary of what the results have told us about the survey itself as well as the people who took it. I feel it would be best for it to all remain anonymous so that the answers we get are genuine and helpful, for both the survey and the students.

Mentor Feedback

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Gaining data through survey is always a great way to assess needs. There are definitely challenges around it but it's a good starting point. I am going to cc our district mental health coordinator, Shuli Lotan. I think she should be your go to as someone who has a lot of data on Samohi mental health. Thank you!

Best,
Emily Ferro (she/her/hers), ASW, MPH, PPSC
Samohi School Site Coordinator/Mental Health Clinician
Family Service of Santa Monica
AD511, ext. 71521

Samuel, I would be happy to talk further about this, we did do a "Wellness Survey" 3 years ago across the district to try to get better data about mental health – but we weren't able to use class time so only got about a 12% return rate that wasn't representative of the student body.

I'm actually meeting next Monday with the assistant superintendent in charge of Ed services, some of the district funding is dependent on having better measures (Screening for MH challenges, usage and outcome data, etc) so I am hopeful that we can start moving things in that direction!

But yes, any data you can collect is better than NO data...let me know if you want to talk more!

Shuli Lotan, LCSW, PPSC Mental Health Counseling Coordinator (310) 395-3204 ext. 71519

Thanks for the connection, Emily.

Conclusion

We feel as if our project was successful, and will be attempting to provide this information to the school. Hopefully, this will encourage them to make some changes to the mental health services on campus.