

Using Machine Learning to Aid the Fight Against Mental Illness

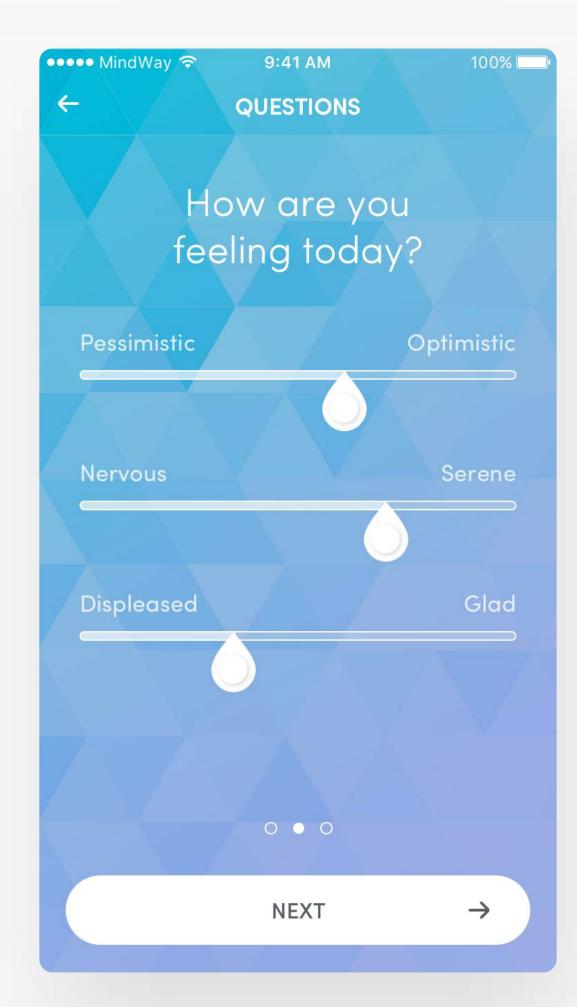
The Idea

With depression being so prevalent worldwide; And that no one-size-fits-all solution exists, we wanted to predict which individuals are at risk of getting depressed.

Using machine learning, we learn the warning signs of depression on social media behavior, and proactively suggest steps to those individuals to take charge of their mental health.

Collecting Baseline Data

We use three main methods to collect, score, and then monitor users' mental health scores over time





Data collected here will be compared against the data to be collected during the Monitoring phase to detect shifts in mood.

علاأ

The self-report survey score will be used together with social media mood scores collected in the next phase to increase validity of results.

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Monitoring

Sentiment Analysis

Using Google's Cloud Natural Processing machine learning model, we analyze users general mood based

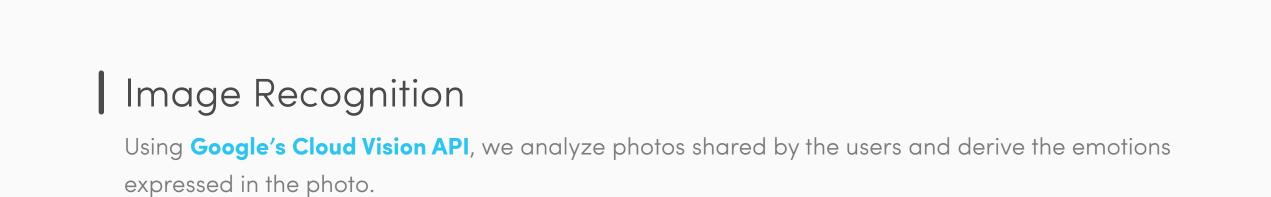
on their social media posts. The model understands the sentiment of the post and assigns it a sentiment score.



do I have to go through all this hurt. -1.0

-0.25 - 0.25

0.25 - 1.0



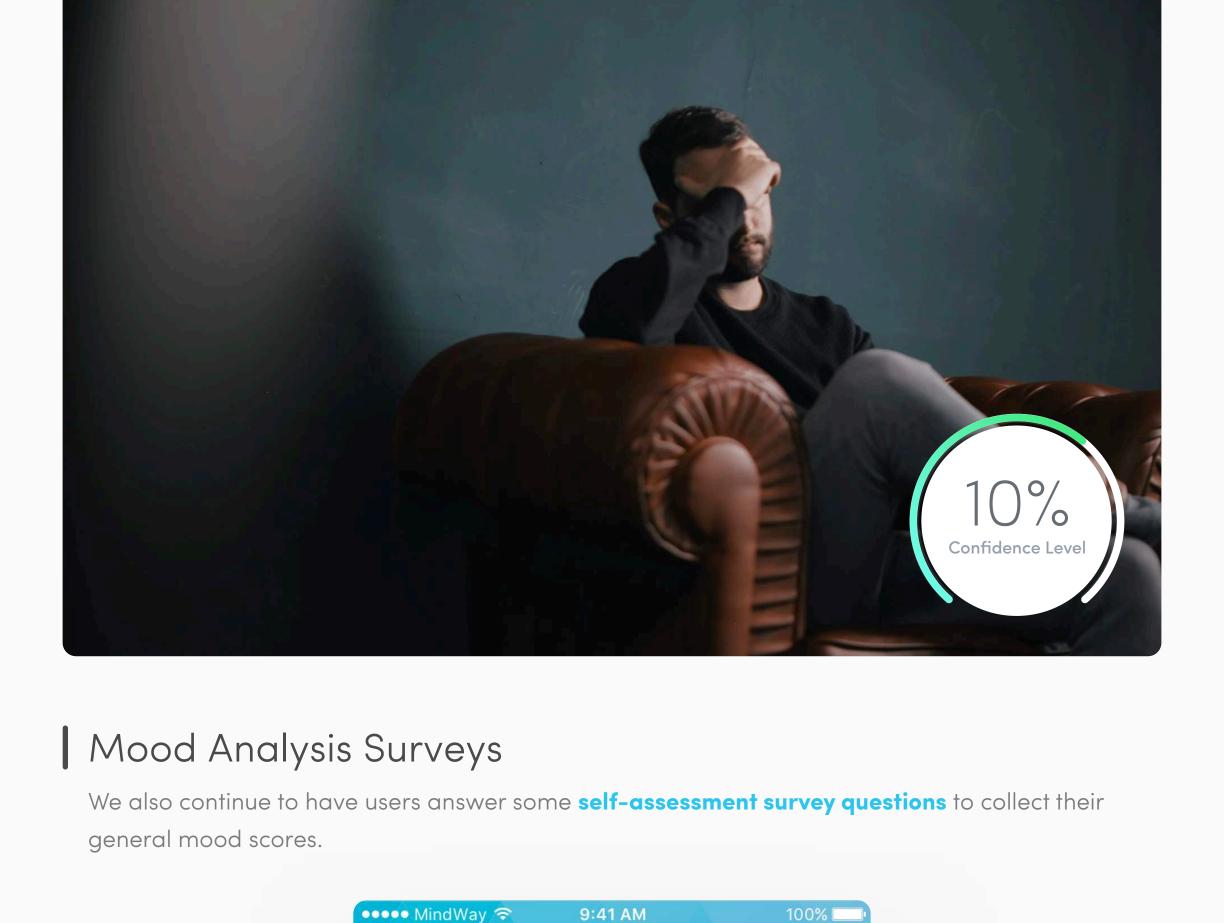
scream to the stars. why do I wear a tear soaked shirt. why

Joy Unikely

-1.0 --0.25

Score

Very Likely Very Likely Sorrow Anger



Have you had trouble

••••• MindWay 🤝

88

9:41 AM

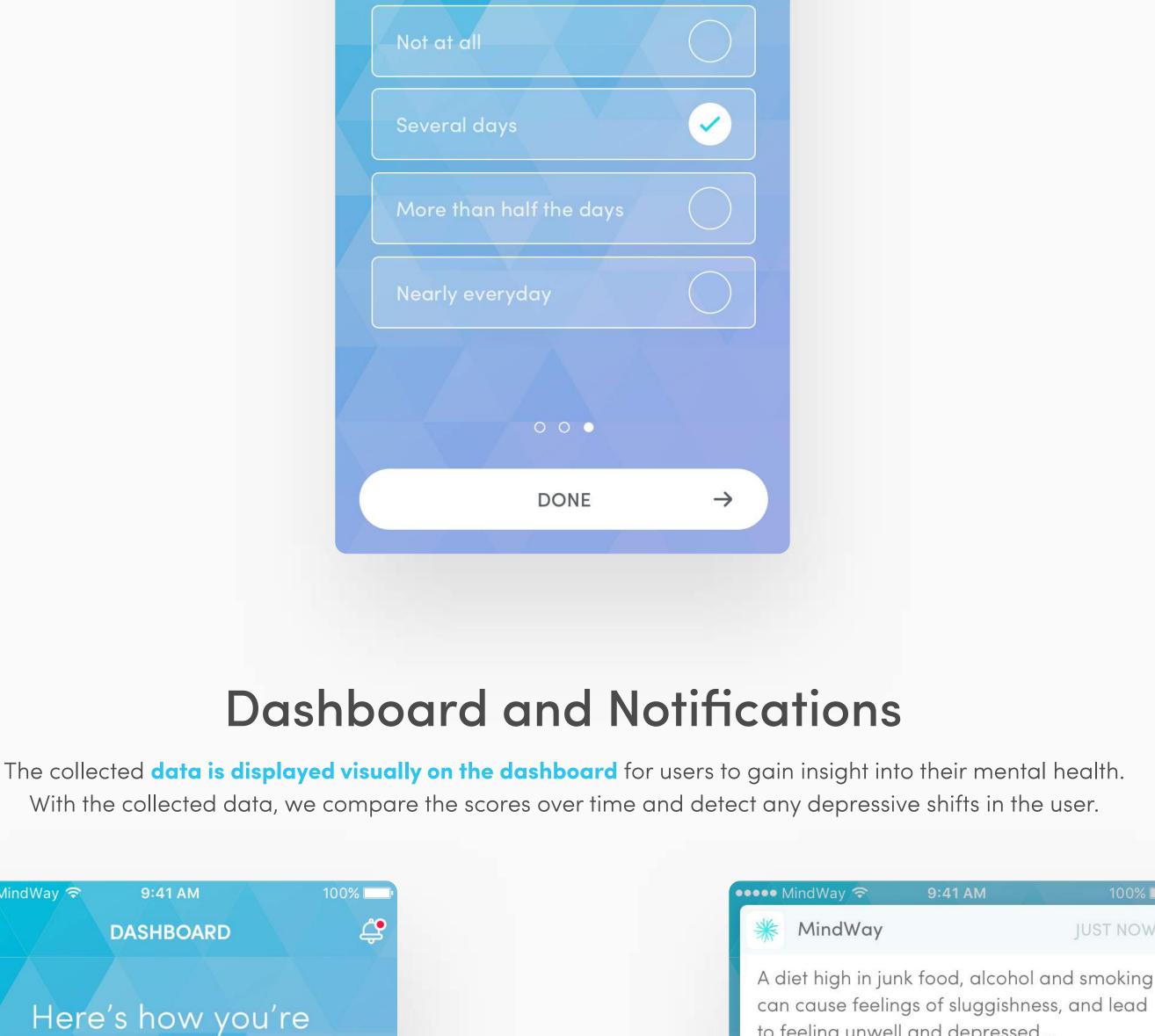
DASHBOARD

feeling this week

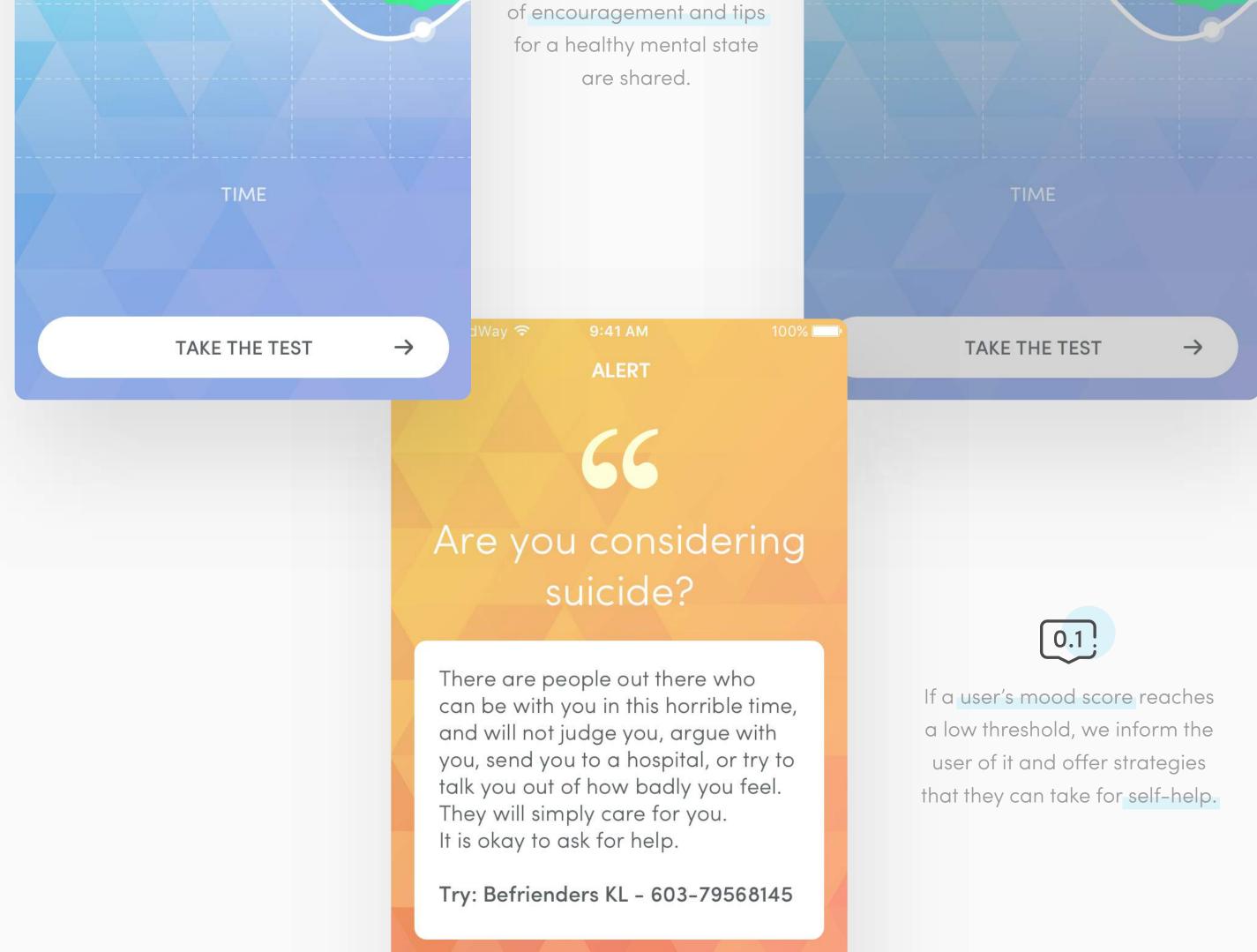
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falling or staying asleep, or sleeping too much?

QUESTIONS



0.1 For normal users, words



CALL NOW



100%

JUST NOW

to feeling unwell and depressed...

