Survey questions

Information given to the participations:
Study Name: Survey on an application called "Talkosynthesis"
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Purpose of the Research: Parents who are away from their children due to work commitment,

travelling, divorce, or for any other reason tend to find it difficult to keep track of their children's mental health. The purpose of this research is trying to find a working solution that will benefit both parents and children in overcoming these issues. The solution would need to tackle this.

issue from two different sides; the children's side and the parents' side. For the former, we propose a friendly physical product that uses an AI system that is able to use speech and emotion recognition to detect different feelings and analyse them. The product should be a safe haven for children and a friend that is always present when no one else is around. A mobile application complementary to this product will have to be designed for the parents' use. This application should be able to display the results of the emotion analysis done by the AI system and help parents keep track of their children's mental health. It will also help parents observe their children's different behavioural patterns and help them detect any red flags, if they may arise, as soon as they do. The application should also allow parents to communicate directly with children through the product from anywhere and at any time. This research will aim to find the most critical designs and needed features of both the product and the application, taking into account both parents and children preferences, and will work on already present solutions that tackle similar problems and improve them. The key goal is to find the necessary and optimal functionalities to bring this idea into life, without crossing the privacy line of both the parents and the children at all times.

What You Will Be Asked To Do In The Research: In this research, you will be asked to watch a video demonstrating the application and how it works. After that, you will be asked to provide your opinion and answer some questions about the application. Do not forget, you will be testing a prototype that's not fully functional.

Confidentiality: The information you give during the research will be stored on a password- protected computer and will be held in confidence. The researcher will not know your name and in no way will any identifying information be linked to your study answers. Therefore, the study is anonymous.

Legal rights and signature: I have understood the nature of this project and I wish to participate. I am not waiving any of my legal rights by signing this form. By selecting "yes", I consent to participate in this study.

A.1 First survey questions

1. How old are you?
2. How old is your children?
3. How likely do you think the product's design matches its purpose?

• Very likely

• Somewhat unlikely
• Neither likely nor unlikely • Somewhat likely
• Very likely

4. What was your overall impression of the application?

 5. Do you think this application is easy to use?

• Yes • No

6. Using your own words, how would you describe this application?
7. What other features do you think would improve this application?
8. If you had a magic wand, what would you change about the application?

9. Are there any features you would ignore while using the application?

10. How likely would you use this application?

• Very likely
• Somewhat unlikely
• Neither likely nor unlikely • Somewhat likely
• Very likely

11. Would you recommend the finished application to a friend?

• Yes • No

12. Do you think this application invades the privacy of the children?

• Yes • No

Table1: Answers of the first two groups of 5-5 participants

1	Yes	Somewhat unlikely	I'm not convinced that children will engage honestly with this app	Yes	Basic but too impersonal. The child clicks an emotional indicator, parents receive a regular report for the child's emptions	It's just too impersonal. Parents should engage with children in person and I'm not sure this app is appropriate	I wouldn't use it	AI chat	Very unlikely	No	Yes
2	Yes	Somewhat likely	It was very difficult to understand the person talking in the video due to the foreign accent. However, it seems to be a good idea to introduce the application.	Yes	At the beginning there is a flower pot and individuals can choose their own character. Then there is also a chart to monitor mental health.	I think it would be good to have an English native speaker as it is truly difficult to understand. Otherwise the app itself seems to be fine.	Not sure. I don't think that there is anything to change.	No, not really.	Somewhat unlikely	Yes	Yes
3	Yes	Very likely	I liked it very much. I would like to do it myself too. Very exiting thing.	Yes	This very helpful for the parents who care their childs.	If they can make notes about these feelengs.	I do not know.	No	Very likely	Yes	No
4	Yes	Somewhat likely	I thought it was interesting, but kids and adults too, go through 1000 emotions in a day so maybe they were sad for a minute but it shows the whole day as sad?	Yes	I think it's a great idea if it is a bit more in depth	Maybe more info through out a day gathered	Maybe add a Video call feature to the kids	Probably the psychologist as id think it was a bot	Somewhat likely	Yes	No
5	Yes	Somewhat likely	Very well educated	Yes	A fun activity for children	More choice of logos and pictures	None	None	Somewhat likely	Yes	No
6	Yes	Somewhat likely	Looks alright, simple to use	Yes	Simple app to help out divorced couples with their kids mental health	Not sure	Not sure, it's not something I can see me using or needing to	No	Very unlikely	No	Yes
7	Yes	Very likely	I think it's user friendly and has a good interface. I would like to see how children interact with it to get the ratings for the day.	Yes	Based on how children interact with their side. The app will track mood and aggregate of the data for action as needed.	Maybe a function to track activities so that you can corresponds them with mood.	Not sure if you can pick the therapist and stick with the same one or you have to use whoever's online. Cuz I would pick the ability to stick with one therapist so you can make consistency of	Not with out actually using could I pick a certain feature.	Somewhat likely	Yes	No
8	Yes	Somewhat likely	The person describing it was hard to understand. I'm not sure what the child is supposed to do. It looked easy to use, but I don't know if a child is going to ask to speak to a psychologist on their own.	Yes	The description says an AI is keeping tabs on the child to update parents on their moods. There wasn't much detail on how it actually works though.	Maybe some questions for the child to see how they are doing.	Not sure.	no	Very unlikely	No	Yes
9	Yes	Somewhat likely	In theory sounds okay but in practice unsure how much a child would be motivated to use this app	Yes	A mood tracker for children which reports to parents trends in the childs mood	Adding more interactive elements between kid and parent except for chat.	The design looks dated and like a generic mobile app, not engaging for kids today.	Chat raises privacy concerns over potential data breaches.	Somewhat unlikely	No	Yes
10	Yes	Somewhat likely	Basic	Yes	User friendly but a bit childish.	Pattern analysis. E. G. particular emotions at particular times.	Video calls	Avatars	Neither likely nor unlikely	Yes	No

A.2.1 Second survey questions

1. How old are you?
2. How old is your children?
3. How busy are you with your work and etc?

• Very likely
• Somewhat unlikely
• Neither likely nor unlikely • Somewhat likely
• Very likely

4. What do you think about the application? 5. Do you think this application is easy to use?

• Yes • No

6. Using your own words, how would you describe this application?
7. What other features do you think would improve this application?
8. If you had a magic wand, what would you change about the application?

9. How likely do you think the product's design matches its purpose?

• Very likely
• Somewhat unlikely
• Neither likely nor unlikely • Somewhat likely
• Very likely

10. Do you think this application invades the privacy of the children?

• Yes • No

11. In what situations you can use this application? Can you give an example?

12. How likely does the application makes parents more involved in their children's life?

• Very likely
• Somewhat unlikely
• Neither likely nor unlikely • Somewhat likely
• Very likely

13. Is it suitable for daily use?

• Yes • No

14. What restrictions might be on the child's side of the product?

 15. Can you see yourself using the application?

• Yes • No

Table1: Answers of the last group of 5 participants

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1	Yes	Somewhat likely	It looks visually nice but can be complicated to use	No	Useful for parents who cannot spare enough time for their child		maybe a simpler design	Very likely	No	I feel very distant from my child on my business trips. It would be nice to know what my child is going through during these times.	Very likely	Yes	My child cannot take this to his school. something like a toy that could be better	Yes
2	Yes	Very likely	it looks appealing and fun to use	Yes	to help parents that are working in the week,understand their children's mental health	maybe adding video call in addition	it looks good so nothing	Very likely	No	when my child doesn't talk with me on a daily basis and wants to stay alon	Very likely	Yes	they may avoid talking private things	Yes
3	Yes	Very likely	The application uses eye-catching colours and is very visual. Every screen is well designed and simple to understand. The functionality and the purpose of each button is clear from the text on the buttons as well as the icons provided.	Yes	The application is not complicated and serves its purpose very well. It is made for the parents to receive daily updates about their children's mental health and it does even more than that.	Maybe have the ability to share the analysis data.	Nothing	Very likely	No	As I sometimes need to travel for work, I would use this application to make sure my kid's are fine and it would provide me with ease of mind.	Very likely	Yes	Avoid displaying the analysis data to the child as it would make them feel uneasy.	Yes
4	Yes	Very likely	It has a warm and catchy seen which feels friendly and more easy to trust on a topic about my child/family to me. It seems like it will help me a lot on having an understanding my child and help me to keep my childs behaviour and emotion changes while I am not at home	Yes	A helpful tool to having deeper understanding on my child	If it is possible I would love to have an alert message on my phone when my child is crying or in deep sadness when I am not at home. So I can call him immidiately and cool down him.	I would change the chat part. Since it is about a childeren's health and I am a mother, I think I would prefer calling to mesaaging about my children. Because it is too emotional and hard to talk about my children's bad mood, in texting I believe thak the emotions are dissepearing	Very likely	No	When I came home later than my child, I would control his mood regularly. Also if there is some special cases when I need to be out for work or etc. I would also check it. I think checking weekly when there is no special case is also good, because maybe he can share his feelings easily to the pot even we are not separate.	Very likely	Yes	I dont prefer the pod if it will answer to him or talk to him. Because in taht case since he is a litrle boy, he can get confuse and he can see the pot as a parent/real-friend	Yes
5	Yes	Very likely	It's suitable for use in daily life and color scheme nice	Yes	A fun activity for children	I think doesn't need improve because the application is perfect	Flower pot to little watch	Very likely	No	Before i'm going to see my daughter to see mental health	Very likely	Yes	Some privacy issues i guess	Yes