

The University of Texas at Dallas

Questionnaire

Theia - Indoor Navigation App for the Blind

Team Visionaries - <<https://theiavisionaries.weebly.com/>>

SE 4351.001

Professor Lawrence Chung

# **Background Information**

**First Name:**

**Last Name:**

**Age:**

# Questionnaire

1. What category of visual impairment do you fall under? (Circle one)
  - a. Low vision (Partial blindness that cannot be corrected with surgery or glasses)
  - b. Partial visual impairment (You use glasses/contacts to help you see)
  - c. Fully blind (You cannot see at all)
  
2. What do you usually use to help you navigate around in your daily life? (Circle all that applies)
  - a. Cane
  - b. Guide dog
  - c. Braille
  - d. A human guide
  - e. Smartphone
  - f. Others (Please specify): \_\_\_\_\_
  
3. If you circled more than one choice in the previous question, is there a particular option you use the most (or would like to use the most)? (Circle one)
  - a. Cane
  - b. Guide dog
  - c. Braille
  - d. A human guide
  - e. Smartphone
  - f. Others (Please specify): \_\_\_\_\_
  - g. I don't favor a single one
  
4. How satisfied are you with your current means of navigation? (Circle one)
  - a. Very satisfied
  - b. Somewhat satisfied
  - c. Neutral
  - d. Somewhat dissatisfied
  - e. Very dissatisfied
  
5. How often do you go out per day? (Circle one)
  - a. 0 - 1 times
  - b. 2 - 3 times
  - c. 4 - 7 times
  - d. More than 7 times

6. What is the biggest challenge you normally face when navigating new places? (Circle one)
- a. Difficulty finding the right path or direction
  - b. Navigating around obstacles in the environment
  - c. Other (Please specify): \_\_\_\_\_
7. Do you use a smartphone? (Circle one)
- a. Yes
  - b. No
8. Which smartphone ecosystem do you use the most? (Circle one)
- a. iOS
  - b. Android
  - c. Other (Please specify): \_\_\_\_\_
9. If you selected Android in the previous question, which brand of Android do you use?
- a. Samsung
  - b. Google
  - c. Asus
  - d. OnePlus
  - e. Other (Please specify): \_\_\_\_\_
10. Have you ever used a smartphone app to help you navigate? (Circle one)
- a. Yes (Please specify the name of the app): \_\_\_\_\_
  - b. No
11. If you answered yes to the previous question, are there any specific feature(s) that the app you used was lacking? (Circle all that applies)
- a. Lack of detail in audio instructions during navigation
  - b. Lack of available path options to choose from
  - c. No option to call for assistance/emergency services
  - d. No safety mechanism to detect a fall and call emergency services
  - e. Other (Please specify): \_\_\_\_\_
12. Out of the following options, which feature do you think is the most important in an app designed to help blind people navigate around? (Circle one)
- a. Detailed audio instructions during navigation
  - b. A detailed variety of available paths to choose from
  - c. An option to call for assistance/emergency services
  - d. A safety mechanism that can detect falls and call emergency services

- e. Other (Please specify): \_\_\_\_\_
13. What kind of feedback is more important to you when using your smartphone? (Circle one)
- a. Verbal feedback
  - b. Vibrations or other tactile feedback
  - c. Other (Please specify): \_\_\_\_\_
14. How often have you used a Braille keyboard for smartphones? (Circle one)
- a. Very often
  - b. Somewhat often
  - c. Never used before
15. How important is personal customization in a smartphone app to you? (Circle one)
- a. Very important
  - b. Somewhat important
  - c. Not important
16. Is there any additional feedback you have on an app designed to help blind people navigate around?

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If you have yet to use our app Theia, you may stop here. Otherwise, please answer the additional following questions.

17. How accurate was Theia's Obstacle Detection?
- a. Very accurate
  - b. Somewhat accurate
  - c. Can't tell
  - d. Somewhat inaccurate
  - e. Very inaccurate

18. How often did you experience bugs/crashes with Theia?

- a. Very often
- b. Often
- c. Every now and then
- d. Rarely
- e. Never

19. How satisfied are you with the overall experience of using Theia?

- a. Very satisfied
- b. Somewhat satisfied
- c. Neither
- d. Somewhat dissatisfied
- e. Very dissatisfied

20. Will you continue to use Theia?

- a. Yes
- b. No
- c. Not decided

21. If you answered “No” or “Not decided” in the previous question, can you elaborate further on why you will not continue using Theia?

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Thank you for answering the questionnaire! We appreciate your feedback.