Questionnaire For Assistance Application

SE6361

Group Members

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**Questions for emergency situations:**

1. In case of an emergency, who would you like to call? (Asked to: Visually Impaired User)
   * 911
   * Emergency contacts
   * UTD emergency service
   * Any other options
2. During an emergency like a power outage, do you wish to indicate to the app to call emergency services or let the app choose the best route to the nearest emergency exit so you can get out of the building fast? (Asked to: Visually Impaired User)
   * Call emergency services or emergency contact
   * Let the app choose the best route for me taking in my input as well
   * Others: please elucidate

1. How many additional emergency contacts do you want to add to the system? (Asked to: Visually Impaired User)
   * 1
   * 2
   * As many as you want

**Question for best path calculation:**

1. Would you like the app to choose the best routes for you or would you like to be the decision maker on which route to go based on the choices given by the app? (Asked to: Visually Impaired User)
   * App to choose for me
   * I’ll be the decision maker
2. If you want the app to choose for you, what factors do you want the app to consider when selecting the best routes? (Asked to: Visually Impaired User)
   * Time and comfortability
   * Fewer crowds
   * No stairs
   * All of these options
   * Others: please elucidate

5.

1. How do you want the app to list the best route options for you and how do you prefer to respond? (Asked to: Visually Impaired User)
   * List out the routes in option form (“Choose from these numbers: Option 1, Option 2, Option 3” after you have preselected some factors like time and comfort and then choosing)
   * Asking for your preference first and then calculating the route
   * Others: please elucidate
2. If you want your preference, then will you be willing to manually set up your app with your caretaker before navigation to include the routes that you want to go in? (Asked to: Visually Impaired User)
   * Yes
   * No

6.

1. In the case of an external path that is not detected by the system, would you be willing to suggest that route to the system so it can recommend it for future navigation? (Asked to: Visually Impaired User)
   * Yes
   * No
   * Something else: please elucidate

**Questions for Obstacle Detection:**

7.

1. What do you prefer doing when an obstacle comes in your path? (Asked to: Visually Impaired User)
   * Stopping
   * Adjusting your speed based on the rate of the obstacle and its direction (Includes stopping)
2. In the case of a path obstructing an obstacle, do you want the app to calculate another route for you? (Asked to: Visually Impaired User)
   * Yes
   * No
3. Do you want the app to notify you what kind of obstacle you are encountering? (e.g. Stairs, ‘Floor Wet’ Sign) (Asked to: Visually Impaired User)
   * Yes
   * No
   * Something else: please elucidate

8.

1. What do you prefer for ‘approaching obstacles warning’? (Asked to: Visually Impaired User)
   * phone ringing
   * Vibration
   * both ringing and vibration
   * others: please name at least one method

9.

1. If you have a walking stick, do you prefer to keep it on you while using the app? (Asked to: Visually Impaired User)
   * Yes
   * No

**Question for Accessibility:**

10. Do you prefer having Bluetooth headphones on to communicate with the app while traveling to your destination so you and the app can communicate freely without any disturbance? ((Asked to: Visually Impaired User)

* + Yes
  + No

11.

a) How much experience do you have using a smartphone app? (Asked to: Visually Impaired User)

* + Yes
  + No

b) if yes, would would help you guide with the process? (Asked to: Visually Impaired User)

* User manual
* Live demo
* Recorded user manual

12.

1. How much experience do you have setting up mobile apps? (Asked to: Personal caretaker)

* Amateur
* Proficient
* Expert

b. If yes, what would help you guide with the process? (Asked to: Personal Caretaker)

* User manual
* Live demo
* Recorded user manual

13. What language do you speak? (Asked to: Visually Impaired Person)

* English
* Spanish
* Korean
* Japanese
* Chinese
* Mention if none of the above

14. Preferred units for direction (Asked to: Visually Impaired Person)

* Cm
* Steps
* Feet
* Any other

15. Do you know Braille? (Asked to: Visually Impaired Person)

* Yes
* No

16. Do you prefer to have buttons that will customize your interface (Like increasing volume, intervals of talking, and selecting language) or do you prefer voice activated commands? (Asked to: Visually Impaired Person and Caretaker)

* Buttons
* Voice
* Both
* Something else

**Personal Questions:**

17. Do you live with your visually impaired friend/family everyday? (Asked to: Visually Impaired Person)

* Yes
* No

18. Do you use the visually impaired’s phone? (Asked to: Personal Caretaker)

* Yes
* No

19. What is your role in terms of assisting the visually impaired person? Do you help them with navigation? Do you help them with using the phone? When walking, do you tell the person how much is needed to walk, or do you gently nudge them with your arms intertwined with them? (Asked to: Personal Caretaker)

20. (Asked to:Visually Impaired Person)

1. Do you have any health issues?

* Yes
* No

1. If yes, then specify the health condition.
2. Will the health condition affect your ability to use our app?

* Yes
* No

21. How do you usually travel? (Asked to: Visually Impaired Person)

22.

a. Do you use a cane for assistance? (Asked to: Visually Impaired Person)

* Yes
* No

b. Do you have a pet dog that accompanies you while walking or going out? (Asked to: Visually Impaired Person)

* Yes
* No

c. Do you prefer a dog or a human to assist you while going out? (Asked to: Visually Impaired Person)

* Dog
* Human
* Both
* None of the above

d. How often do you visit new places? (Asked to: Visually Impaired Person)

* A lot
* Sometimes
* Not much