

IT351: Human Computer Interaction

Group 6: Virtual Eye for the Blind

Empirical analysis

User reviews-

1. This app allows visually impaired users to explore the world in a very different way from what you would expect.
2. While it may seem daunting for novices, the app challenges some of the basic assumptions about the perceptive abilities of people who are blind or have low vision.
3. I really like this idea. It is awesome, but I hope that you could make a better, more accurate version of this as it can be a real blessing.
4. It's a game-changer for the blind.
5. It's a really helpful, great app!
6. A blind person could change their mobility and independence if they learn how to use this app.
7. Easiest to use a text reader ever..... The reader on this is really good for real-world text..the other functions are pretty amazing but beyond the scope of my know-how...
8. It's good but I feel there is scope for improvement.
9. Great colour finder, but busy interface & irritating noises make it difficult to use.
10. very nice app
11. Simply amazing. I'm not blind, but I can negotiate a bit with it on and my eyes closed. Just a great example of where technology is taking us.
12. A must-have app for the blind. A set of tools in one package.
13. The possibilities of this helping the blind are amazing, though I thought the fact that they had to carry it up to point at the objects was a tiring chore for them.
14. after a small amount of using it you can distinguish doorways, etc. and can see how it would be useful for blind people after a bit of training.
15. Very Good Start!!! This has the potential to be a powerful and unbelievably useful tool for the visually impaired.
16. It can be useful but some improvements needed.
17. Easy to use. Good design.
18. I wish it included languages other than just English, especially regional languages.
19. This app is good.
20. This app is very useful for the blind.
21. This app is extremely good and very accurate! However, it is important to remember that environmental lighting in the room or environment

where you are is important for this app. if the camera cannot pick it up well, or does not have good lighting, accuracy will decrease.

22. Such a great app for the visually impaired community, but I request you to improve the accuracy and add some other necessary features for the blind.

23. It is a good initiative but needs some refinement.

24. It's very good but I hope to see more features.

25. Very handy for people with low vision.

26. Fantastic app for visually impaired people.

27. Good object detection app.

28. Very useful for the visually impaired to be able to explore their immediate environment.

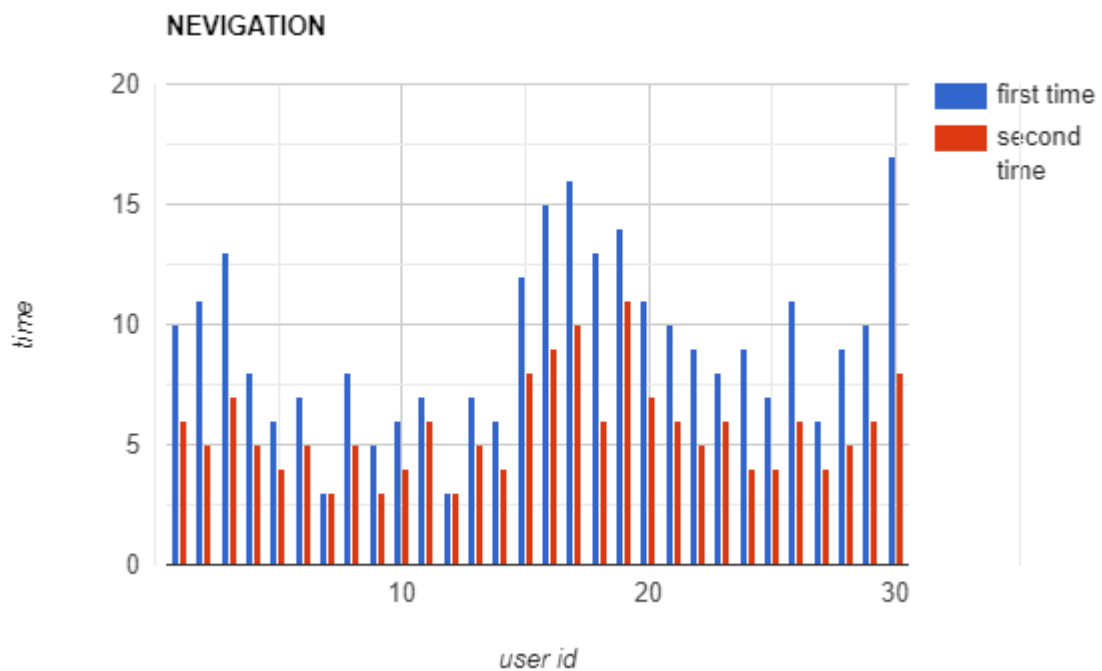
29. Nice app for the blind.

30. I was able to find items I pointed to with no problem but the accuracy can be improved.

Screen Analysis-

User	Time for navigation(seconds) First time	Time for navigation(seconds) Second time
1	10	6
2	11	5
3	13	7
4	8	5
5	6	4
6	7	5
7	3	3
8	8	5
9	5	3
10	6	4
11	7	6
12	3	3
13	7	5
14	6	4
15	12	8
16	15	9
17	16	10
18	13	6
19	14	11
21	10	6
22	9	5
23	8	6

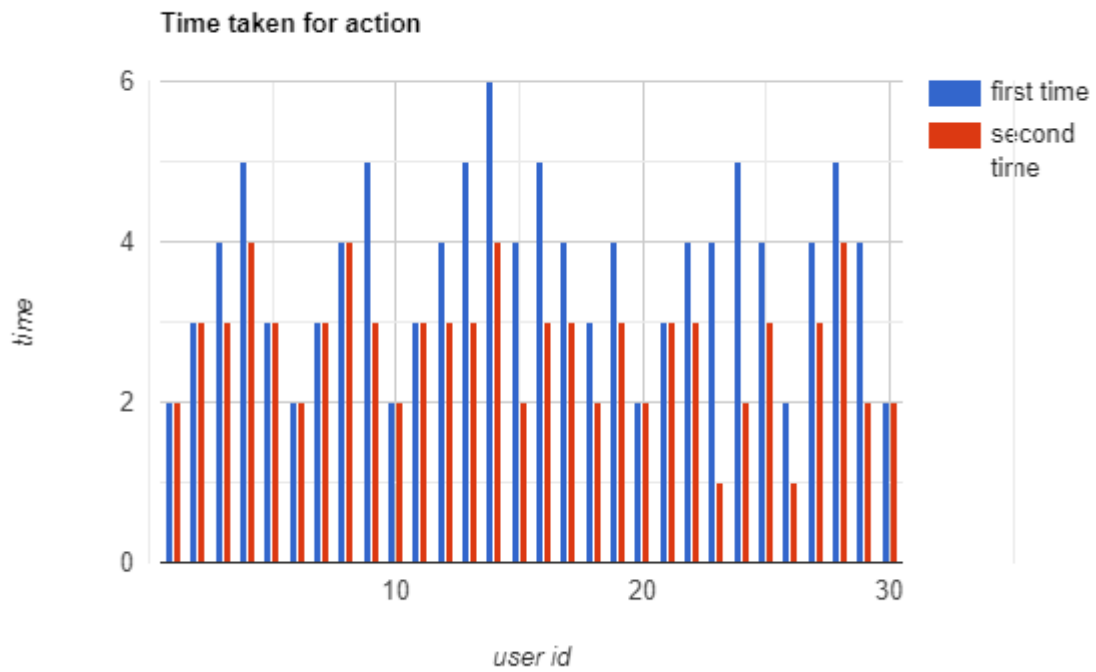
24	9	4
25	7	4
26	11	6
27	6	4
28	9	5
29	10	6
30	17	8



Time taken for action

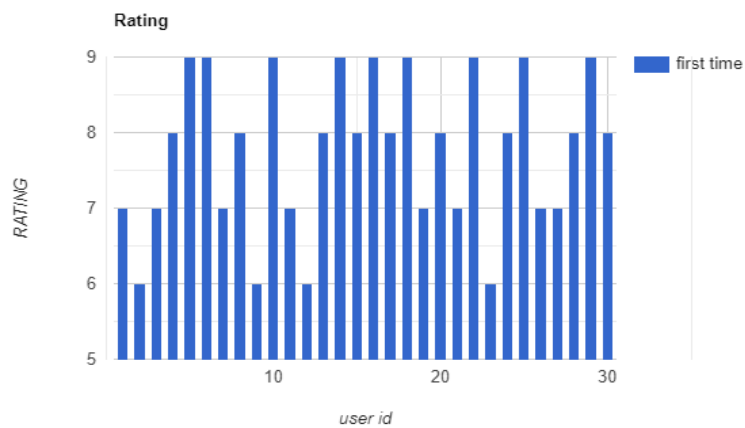
User	Time for navigation(seconds) First time	Time for navigation(seconds) Second time
1	2	2
2	3	3
3	4	3
4	5	4
5	3	3
6	2	2
7	3	3
8	4	4
9	5	3
10	2	2
11	3	3

12	4	3
13	5	3
14	6	4
15	4	2
16	5	3
17	4	3
18	3	2
19	4	3
20	2	2
21	3	3
22	4	3
23	4	1
24	5	2
25	4	3
26	2	1
27	4	3
28	5	4
29	4	2
30	2	2



Rate in terms usability

User id	Rating(/10)
1	7
2	6
3	7
4	8
5	9
6	9
7	7
8	8
9	6
10	9
11	7
12	6
13	8
14	9
15	8
16	9
17	8
18	9
19	7
20	8
21	7
22	9
23	6
24	8
25	9
26	7
27	7
28	8
29	9
30	8



Average Rating of App- 7.76.