

CS 5760

USABILITY TEST RESULTS PRESENTATION

3D_RONE APP

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Pre-test Questionnaire & Demographics

Total Participants: 8

GENDER: 87.5% MALE, 12.5% FEMALE

AGE RANGE: 19-21 YEARS

1. Did you ever use any app or website to analyze drone flight paths or to inspect building using drone flight? - 100% no
2. Are you interested in the testing of this application? - 25% Strongly Agree, 50% Agree, 25% Neutral
3. Are you familiar with building inspection? - 50% Strongly Disagree, 37.5% Disagree, 12.5% Neutral
4. Are you familiar with various factors of building inspection using drone? – 37.5% Strongly Disagree , 37.5% Disagree, 12.5% Neutral

SCENARIO 1: DRONE PILOT TRYING TO INSPECT THE BUILDING USING 3D_DRONE APP

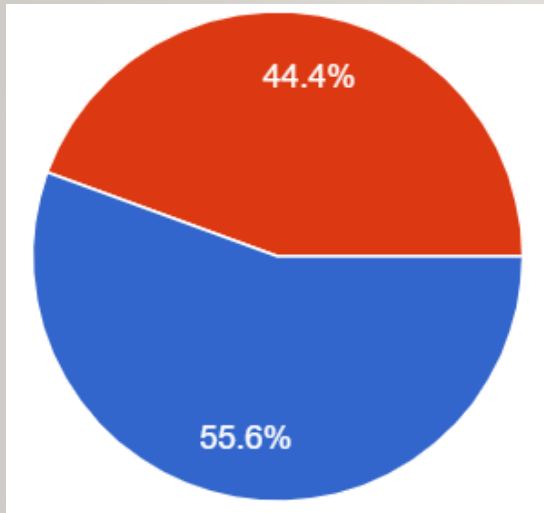
Participants were asked questions related to Building Inspection points, Drone Flight Data, Locating the drone at any Inspection Point, Moving the drone from one Inspection point to another, Highlight the drone flight participant want to inspect etc. After that we took the feedback from participants accordingly.

SCENARIO 2: NAVIGATE THE APP USING THE HELP PAGE

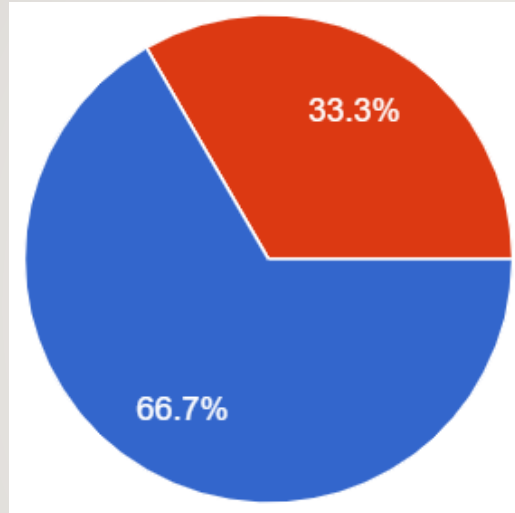
Participants were asked to open the help page and get all the necessary information required to navigate the app. Also, while going through the app, participants were asked to take help from help & documentation page if they got stuck anywhere. Feedback taken accordingly after finishing this task.

POST-TEST QUESTIONNAIRE

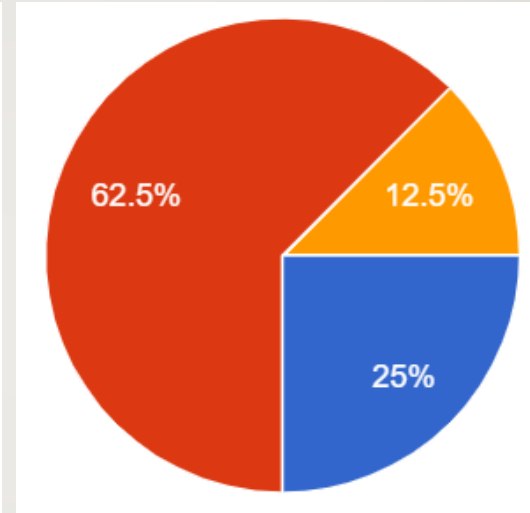
- Strongly agree
- Agree
- Neutral
- Disagree
- Strongly Disagree



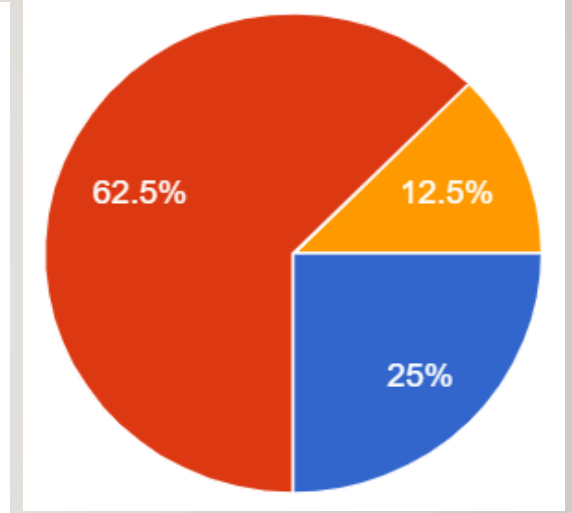
Overall, was it easy to perform the task with this application?



Did you enjoy using this application?



Were you able to complete your tasks efficiently?



Would you use this application again?

FEATURES & FUNCTIONALITY

- A complex app is designed in a simpler way.
- A novice drone pilot can get trained easily through this app.
- All the data required for building inspection were placed in an organized manner.
- **A video demonstration covering all the information is uploaded in Help page.**

Issues/Bugs

App was designed perfectly and there were certainly no issues during test.

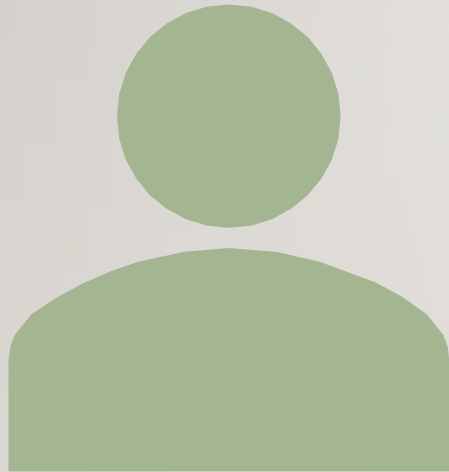
Only concern was loading the drone flight scene which depends upon user's internet connection as well as PC Configuration.



USER COMMENTS

- “The app was pretty straightforward.”
- “Complex idea represented in a simpler version.”
- “3D Visualization is exciting and interesting with drone data.”
- “Wonderful idea to get the automation done.”

SUGGESTIONS



- Mouse Point Data could have been a better Idea.
- Deselecting/Selecting all flight/pilots with a single button is more flexible.
- Layout of text instructions could be better.
- Would be helpful to have a button to toggle visibility for all paths at once.

THANK YOU

