Usability Testing Results Stream and Trail Application

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Class: Human Computer Interaction (CS 5760)

Stream and Trail Application

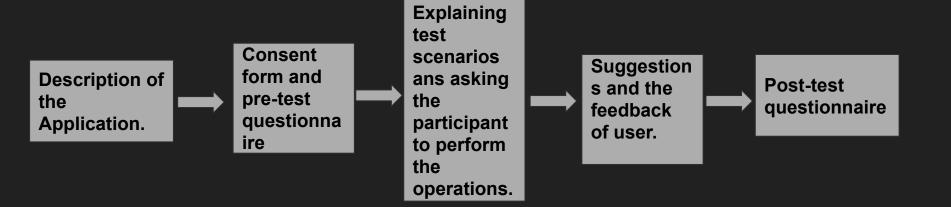
- Normal User
- a) Will use the mobile based web-application to check the trail condition.
- b) The user will report the trail condition.

- Authenticated User
- Will use the mobile based web-application to check the statistics and the trail condition.
- b) The user can update the reported trail conditions, and can report the trail condition.
- c) The user can upload and download the trail report.

Main Motive of the Application

- 1. The user can be able to check the trail conditions before visiting the trail. If there is any problem in the trail, the user can report that in the application which alerts the trail managers.
- 2. The scientists/researchers can check the trail statistics and can upload and download the trail reports.

Test Process

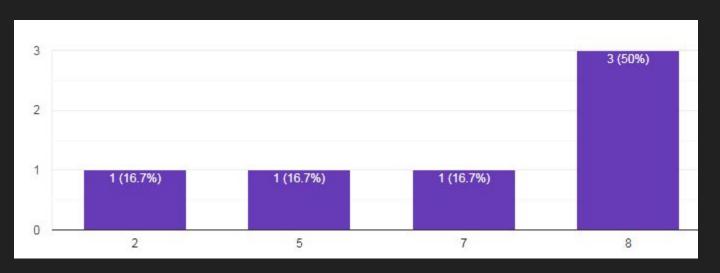


Types of Data Collected

- 1. Time taken to complete each scenario.
- 2. Time taken for a participant to report the trail condition.
- 3. How each participant performed each task.
- 4. Number of questions asked.
- 5. How long to see the trail condition after the participant reported.
- Suggestions and the feedback from participants.

Pre-Test Results

- 1) Number of participants: 6
- 2) Years they've been using the smartphone:



3) Difficulty in viewing the colours, contrast or fonts on a smartphone or a computer screen:

YES(83.3%) NO(16.7%)

4) Interested in testing the application:

STRONGLY AGREE(33.3%)

AGREE(66.7%)

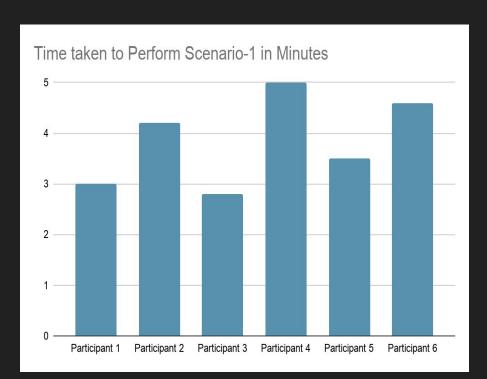
Limitations

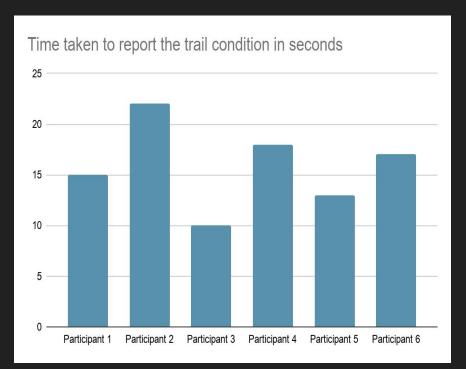
 The upload and the download the report feature is not yet implemented because the report consists of the sensor data, the developers didn't have that sensor data.

First Test Scenario: Exploring the basic features of the application as a Normal User.

- 1. To check the trail condition in the home page.
- 2. To check the individual trail information.
- 3. To report the condition of the trail using the geometric location.
- 4. To check the report has been recorded and reflected on the home page.

Scenario One Results.





Second Test Scenario: Explore the basic features of the application as an Authenticated User.

- 1. To check whether the user can check the trail condition, report the trail condition similar to that of normal user.
- 2. The user should be able to add the new authenticated users by sending an invite.
- The user should be able to see the statistics of the trail conditions.

**In addition to the above features we wanted to check the uploading and downloading reports feature as well, but due to some reasons that feature is not yet implemented. It will be done by the finals.

Scenario-2 Results

- This scenario has all the features like scenario-1 in addition to that it has 2 more features like adding user and checking trail statistics.
- The upload and the download report features in this scenario are not yet implemented.

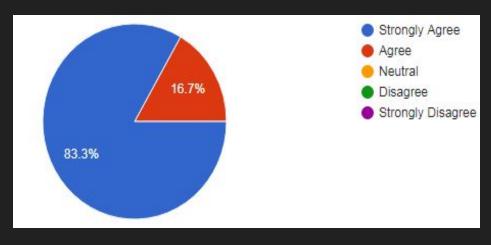


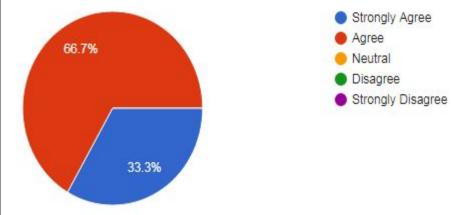
Participants Feedback and Suggestions

	Like most about the application.	Suggestions for the improvement of the Application.	
Participant 1	The lists.	In the all trails details section the middle parts are not aligned.	
Participant 2	The easy homepage with the compiled stats.	Specifications or expanding to more trails in more areas in the future.	
Participant 3	The rating on the homepage.	None	
Participant 4	Seeing the trail conditions and overall user experience.	Checkbox needed at the trail maintenance. Dropdown menus would be convenient for easier individual trail data access.	
Participant 5	Trail reporting feature using the current location.	Changing the maintenance button. Adding more figures on the statistics on the admin UI.	
Participant 6	Easy to use without any experience.	None.	

Post-Test Questionnaire Results

 Overall this application was easy to perform the tasks. • I enjoyed using this application.

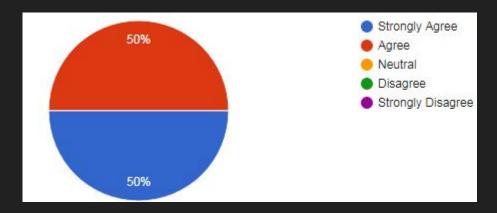


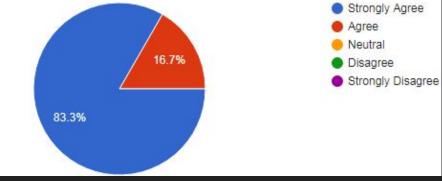


Post-Test Questionnaire Results

• The buttons are clear and easily navigable.

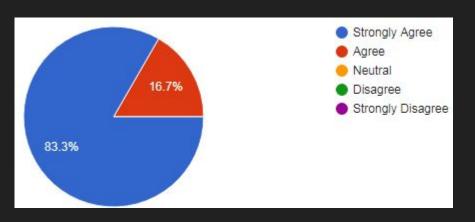
The text was easy to read and understand.



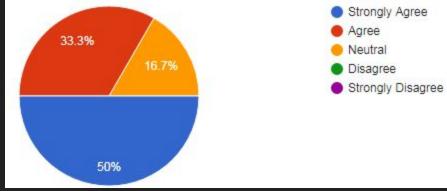


Post-Test Questionnaire Results

• I was able to complete my tasks efficiently.



• I would use this application again.



Bug Report Form

Bug Number	Bug Name	Bug Uniqueness	Bug Description
1	Error on trail reporting.	Once	Clicking on trail details then switching to a different trail directly (not all trails) then clicking add report will generate a 404 error
2	Report with the future date.	Sometimes	Overview tab gives incorrect number of reports in last 5 hours (one was in the future).

More details in Usability Test Report to follow

Thank you!