

# Usability Test Report

Beach Monitoring App

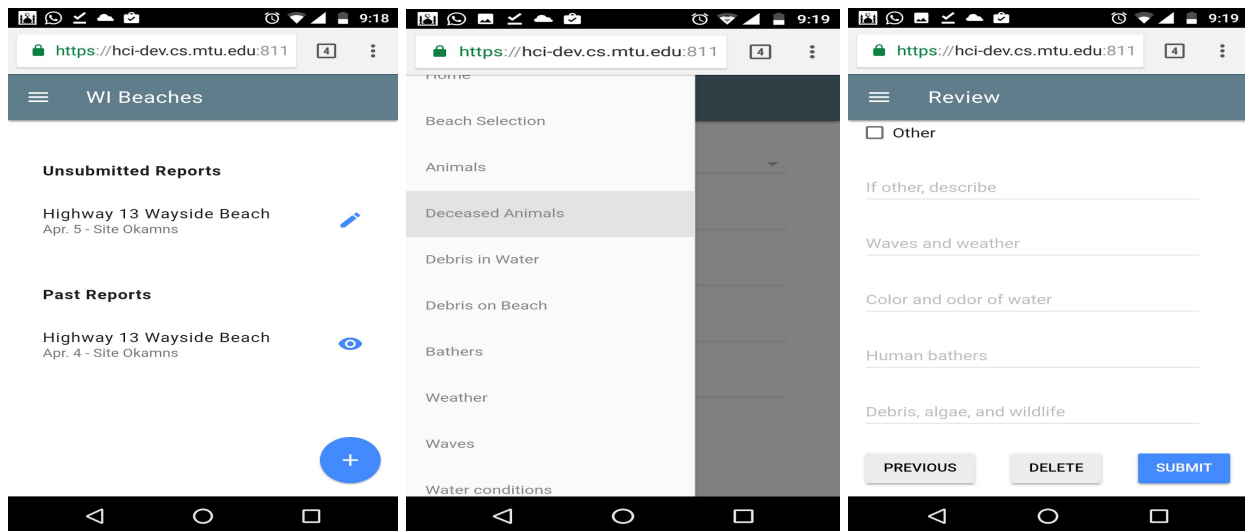
Team Phoenix

Graduate Student 9

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# Introduction

Beach monitoring App is a Mobile data Collection app. The home page shows the two set of logs. One is Unsubmitted Reports log and other is Past Reports log. The past reports logs contains already submitted reports and these are only read only. The Unsubmitted logs contain all unsubmitted or saved reports and these are editable. User can start a new survey by clicking on the plus sign on the form . The interface has a hamburger menu, which would help the users to navigate through different parts of the survey. Every page on the survey has related data and all the fields are easy to find with the help of this hamburger menu feature. At the end of all the pages there is a review form , which displays all the fields. Users can scroll the review page and review the fields they have entered.



Test goals were to verify if the app meets all the requirements and check the if the interface meet the usability requirements. To find any improvements that would enhance or make the app more usable interface. As the app is a mobile app it will be used on different mobile operating systems. The tests were performed on all available mobile OS to see if the interface performs well on all the OS platforms.

The users consent were taken before the tests were performed. As this app is exclusively developed for the beach monitoring interns, participants of the tests were given the sample data before hand to perform the test. Tests included filling the form , editing the form,submitting a complete form and editing a unsubmitted form . Users were observed while performing the tests to find any usability

# Test Plans

## Usability Test Scenario 1:

- **Test Scenario Name: Fill the Form**
- **Test Goals for the scenario:**
  1. To measure ease with which a user fills the form.
  2. To know if the user is able to identify which field is left incomplete if the form is unable to submit.
  3. To check if the application is letting users to commit mistakes.eg number of dogs field must open a numeric keyboard and description fields must open a alphanumeric keyboard.
- **Quantitative measurement list**
  1. How much time does it take to complete the form
    - 5 to 8 minutes
  2. How many bugs were uncovered.
    - 2
  3. How many times the participant asked for the help of developer.
    - 0 to 2 times
- **Scenario description**

You are in Simmons Island Beach of Lake Michigan in kenosha county.You have found all the data you want to collect for the form.So you will start recording this data on the form of Beach Monitoring Application.



For this you will open the application and start a new form. You enter your user id and beach name and location and start filling the form.

- **Task List**

1. Open the Beach Monitoring Application
2. Click on new survey
3. Select the beach you are monitoring
4. Fill all the required fields

- **Qualitative measurement list**

1. How frustrating is it to complete the whole form. Can be known by users expressions.
  - Not frustrating
2. How tiring was to find a missing field. Can be known by users expressions and time spent.
  - Not tiring
3. Does the participants suggest any improvements
  - Few improvements suggested

- **Potential observations of participant:**
  1. Facial expressions on the participant face.
  2. Taking pauses during the tests can be sign of tiring app
  3. When User suggests any improvements

### **Usability Test Scenario 2:**

- **Test Scenario Name:** Edit a unsubmitted form
- **Test Goals:**
  1. To measure how easy is to navigate across the form pages.
  2. To know how easy is to find a field you want to edit.
  3. To check if the edited fields being updated with the new information.
- **Quantitative measurement list:**
  1. How much time it took for the participant to find a particular field to edit
    - Within seconds
  2. How many bugs were uncovered.
    - 0
  3. How many times the participant asked for the help of developer.
    - 0

- **Scenario description:**

You are in Simmons Island Beach of Lake Michigan in kenosha county. You have found all the data you want to collect for the form. So you will start recording this data on the form of Beach Monitoring Application. For this you will open the application and start a new form. While filling the form you exited the application without submitting the form or the internet was down, so the form was not submitted. Now the form is saved in the unsubmitted form log. Now you open the unsubmitted form and start editing it.

- **Task List:**
  1. Open the Beach Monitoring Application
  2. Choose the unsubmitted forms to edit.

3. Search for the field you want to edit
  4. Edit and submit the form
- **Qualitative measurement list:**
    1. How frustrating it is to find a particular field you want to edit in the unsubmitted form. Can be known by users expressions.
      - Not frustrating
    2. How tiring was to find a field. Can be known by users expressions and time spent.
      - Not tiring
    3. Does the participants suggest any improvements
      - No improvements suggested
  - **Potential observations of participant:**
    1. Facial expressions on the participant face.
    2. Taking pauses during the tests can be sign of tiring app
    3. When User suggests any improvements

### Usability Test Scenario 3:

- **Test Scenario Name:** Submit the complete form
- **Test Goals for the scenario:**
  1. To check if the submit button downloads csv file.
  2. To know if user was able to find the submit button easily
  3. To know if the user is comfortable with the interface
- **Quantitative measurement list**
  1. How much time it took the user to reach the submit button
    - Within seconds
  2. Did the submit button work.
    - For the first two tests, csv file did not download

3. How many times the participant asked for the help of developer.

- Zero times

- **Scenario description**



Copied from <http://www.dailymail.co.uk>

Imagine yourself as a beach monitoring intern. Above is the picture of a beach. You have spent enough amount of time on the beach to get the data you want. You have counted number of seagulls, animals and humans on the beach. You have also measured PH level of water, and amount of algae found on the beach. Now you have the data required to fill the Beach App form. Now you open the app and start filling the data by selecting the beach you are at. Let say you are in Bayfield at Highway 13 Wayside Beach of Lake superior. After manually entering the data on the form, you try to submit the form

- **Task List**

1. Open the Beach Monitoring Application
2. Click on new survey
3. Select the beach you are monitoring
4. Fill all the required fields

- **Qualitative measurement list**

1. Ease with which the user reached the submit button. This can be measured by the amount of time taken for the user to reach to the submit button. Also if the user asks the developer to find the submit button, it means it is hard to find it.
2. To check if the user is comfortable with the interface. This can be checked by watching the user navigate through the pages of the form. If the user has effortlessly navigated then the interface is comfortable for the user.
3. Does the participants suggest any improvements.

- **Potential observations of participant:**

1. Facial expressions on the participant face.
2. Taking pauses during the tests can be sign of tiring app
3. When User suggests any improvements



#### **Usability Test Scenario 4:**

- **Test Scenario Name:** Submit an incomplete form
- **Test Goals for the scenario:**
  1. To check if the app allows you to submit an incomplete form
  2. To know if the user was able to find the desired fields
  3. To know if the user is comfortable with the interface
- **Quantitative measurement list**
  1. How much time it took the user to find the fields they wanted to fill
    - Within seconds
  2. Was the user able to submit the incomplete form
    - Yes
  3. How many times the participant asked for the help of developer.
    - 0

- **Scenario description**



Image:[https://commons.wikimedia.org/wiki/File:Weymouth\\_beach\\_in\\_July\\_2011.jpg](https://commons.wikimedia.org/wiki/File:Weymouth_beach_in_July_2011.jpg)

Imagine yourself as a beach monitoring intern. Above is the picture of a beach. You have spent enough amount of time on the beach to get the data you want. You were not able to find the entire data needed to fill the form. You decided to submit the form with the data you have. Now you open the app and start filling the data by selecting the beach you are at. Let say you are at Middle River Beach of Lake superior in Douglas county. You don't have information about animal banthers and deceased animals, so you will skip those pages. In weather page you will not fill wind related fields. You will enter the remaining fields, and reach to the final review page to submit the form.

- **Task List**

1. Open the Beach Monitoring Application
2. Click on new survey
3. Select the beach you are monitoring
4. Fill all the required fields

- **Qualitative measurement list**

1. Ease with which the user skipped the pages that he did not want to fill. This can be checked by watching the user navigate through the pages of the form. If the user is effortlessly navigating through the pages then skipping pages is easy.
2. Ease with which the user reached the submit button. This can be measured by the amount of time taken for the user to reach to the submit button. Also if the user asks the developer to find the submit button, it means it is hard to find it.
3. To check if the user is comfortable with the interface. This can be checked by watching the user navigate through the pages of the form. If the user has effortlessly navigated then the interface is comfortable for the user.
4. Does the participants suggest any improvements.

- **Potential observations of participant:**

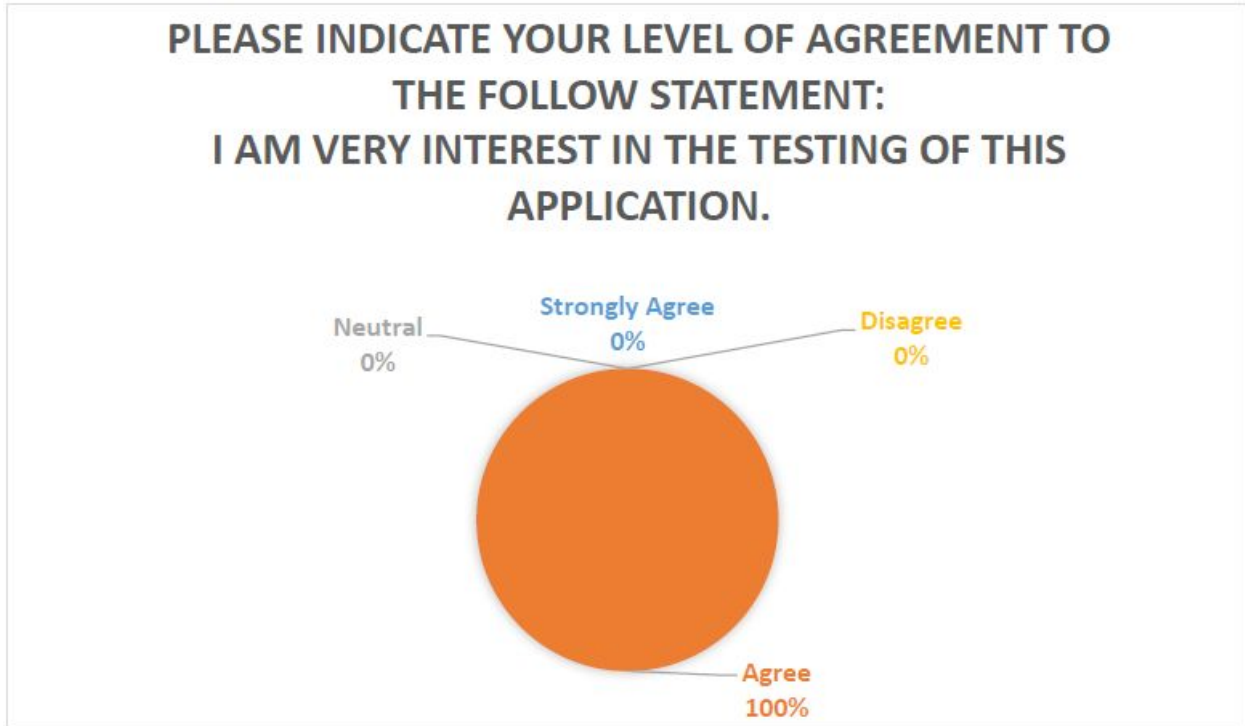
1. Facial expressions on the participant face.
2. Taking pauses during the tests can be sign of tiring app
3. When User suggests any improvements

## Test Results For Pre Test Questions

1. How many years have you used a smart phone?

- Average age = 5,8,7,8,4,5 =6.1667

2.

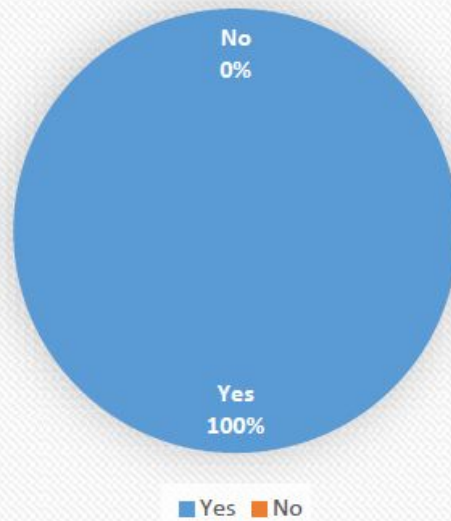


3. What is your age

- Average age =20

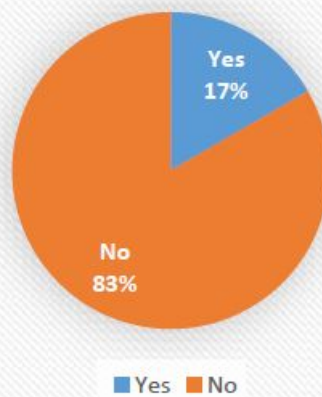
4.

Have you ever filled a survey form

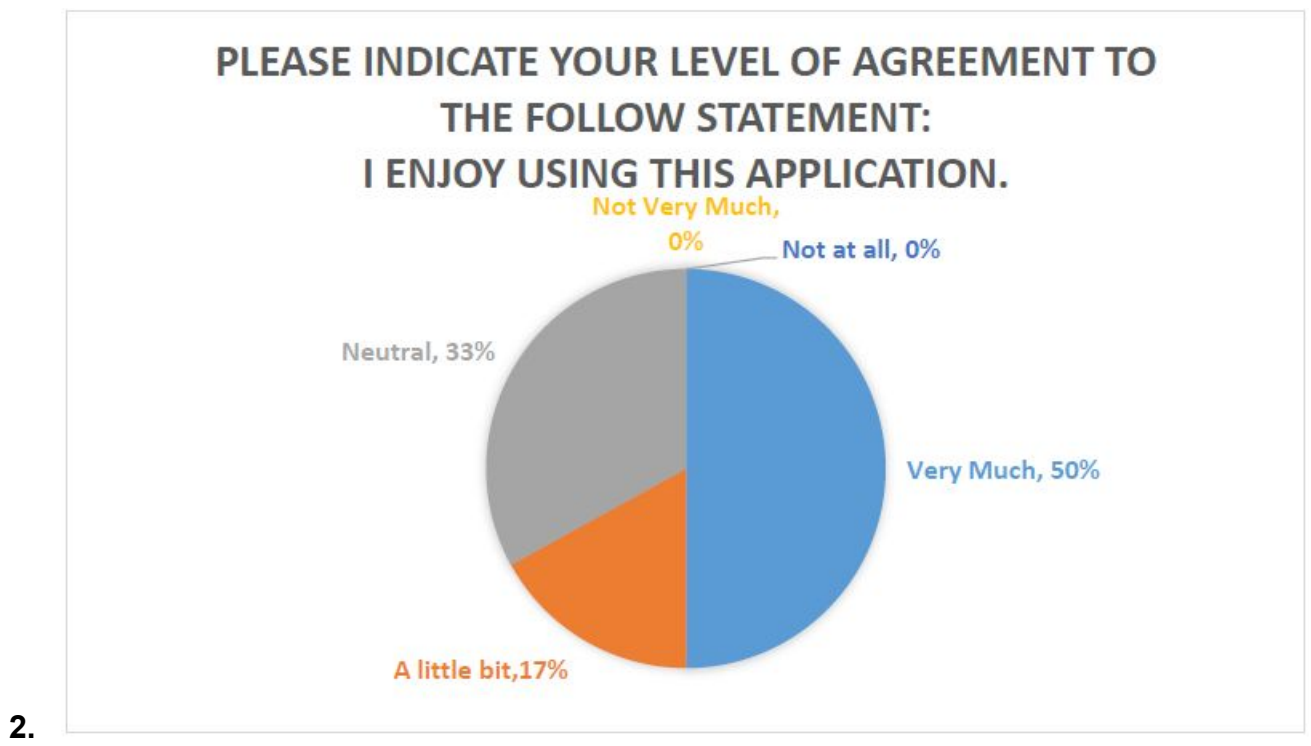
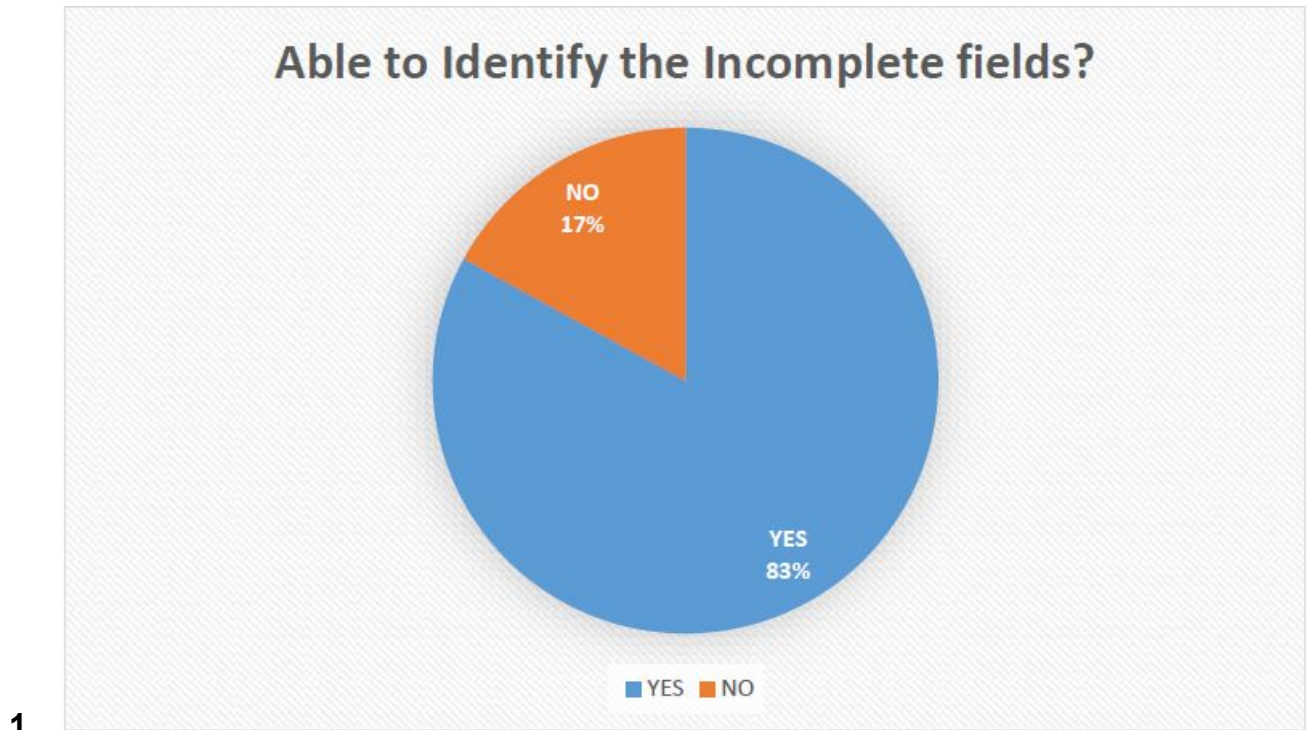


5.

Do you have any idea about the data collected at the beach , for eg PH level,rain intensity?

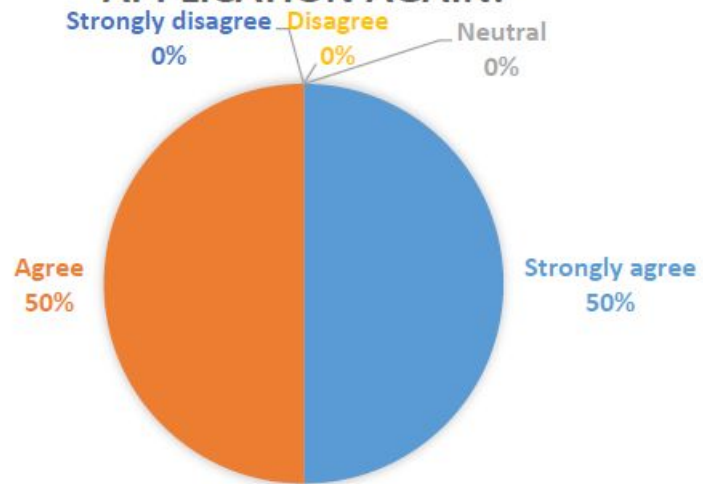


## Test Results For Post Test Questions



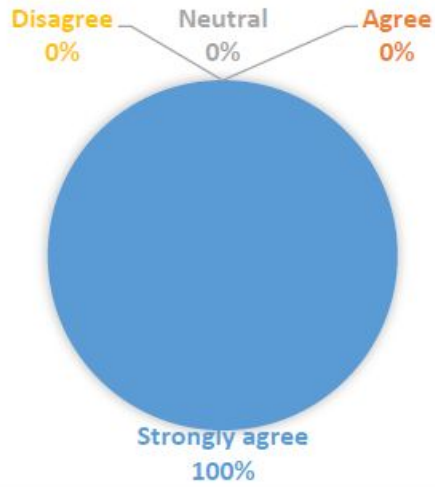


PLEASE INDICATE YOUR LEVEL OF AGREEMENT TO THE FOLLOW STATEMENT: I WOULD USE THIS APPLICATION AGAIN.



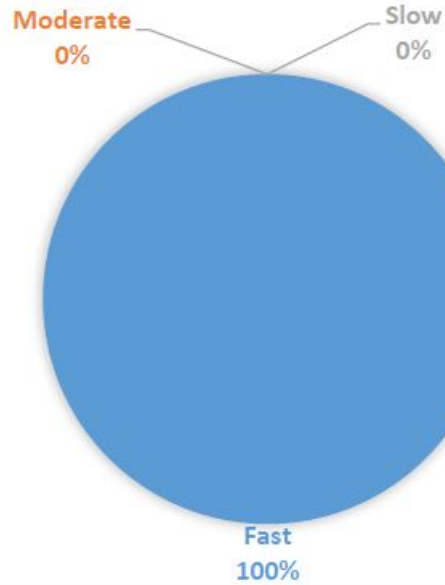
3.

PLEASE INDICATE YOUR LEVEL OF AGREEMENT TO  
THE FOLLOW STATEMENT:  
OVERALL, THIS APPLICATION WAS EASY TO  
PERFORM THE TASK.



4.

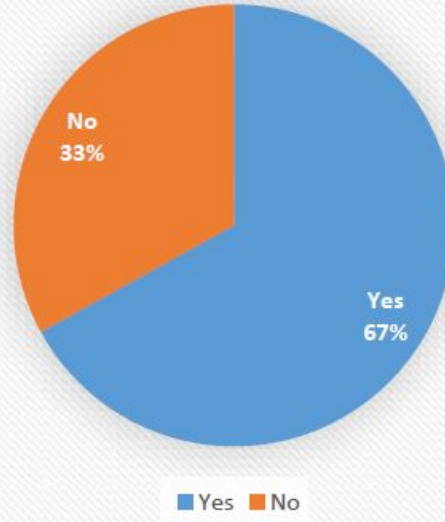
HOW FAST DID THE APPLICATION RESPOND WHEN  
YOU HIT THE SUBMIT BUTTON



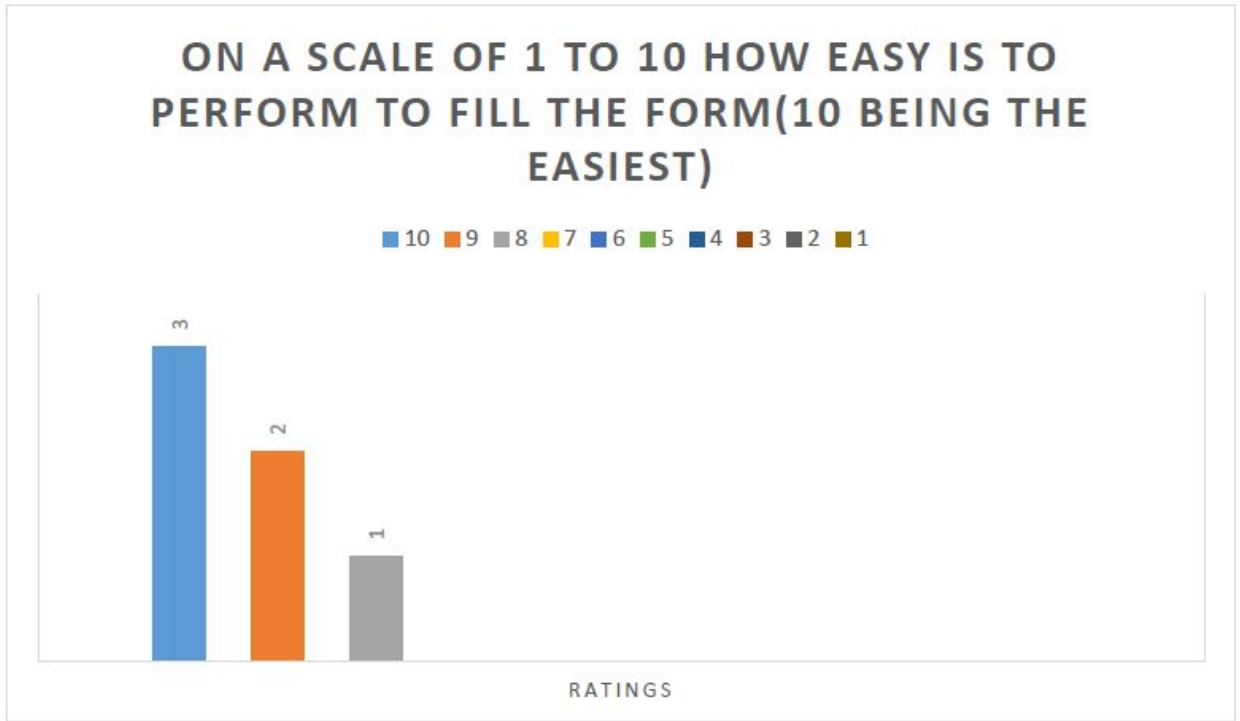
5.



## Did the App stop you submitting an incomplete form

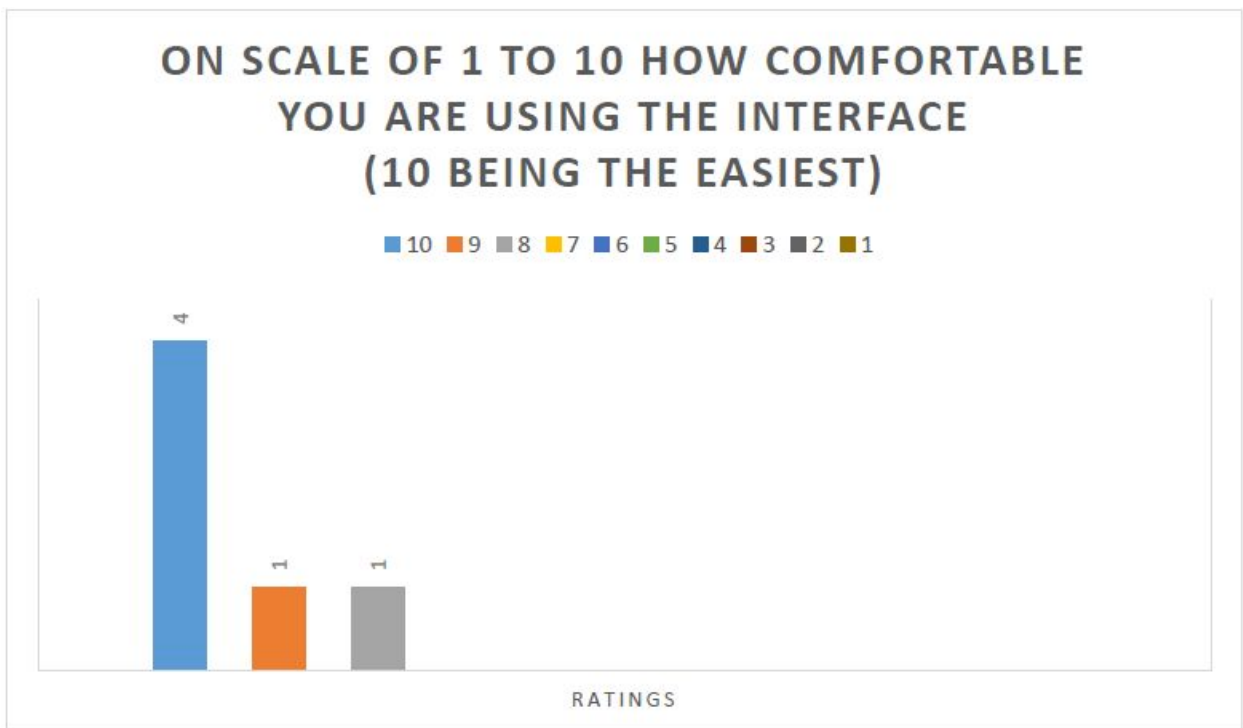


6.



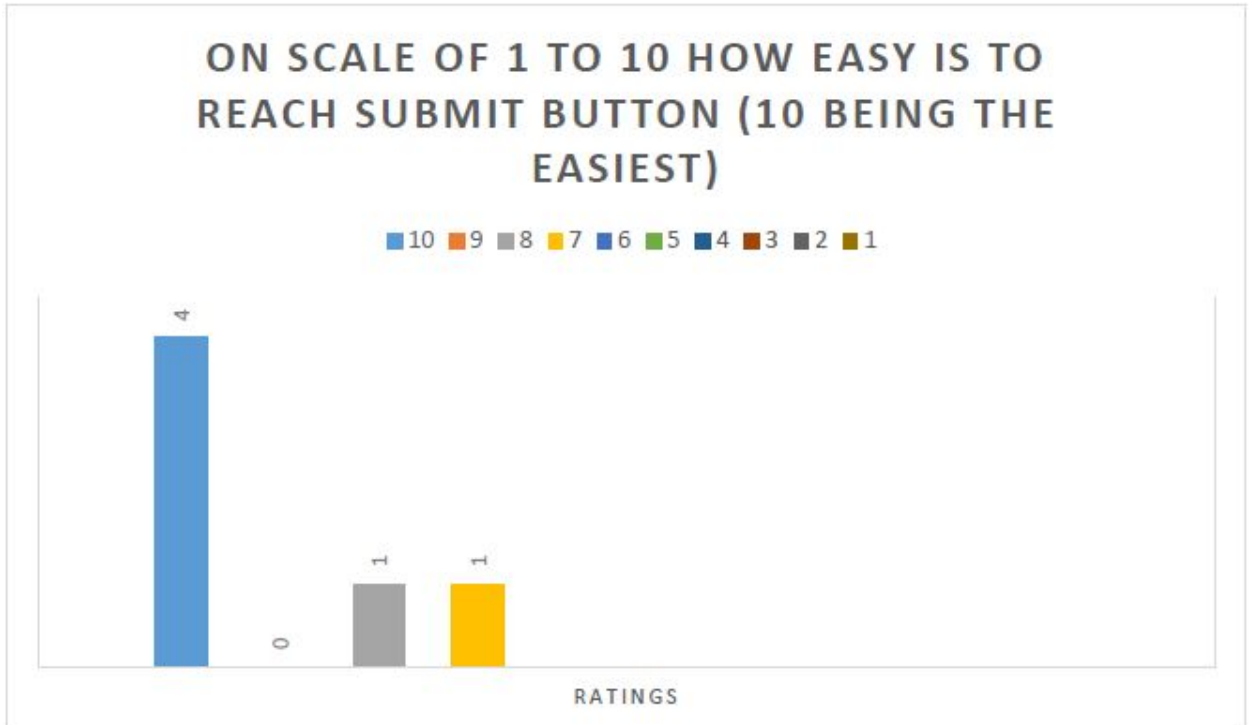
7.

Average Rating = 9.3



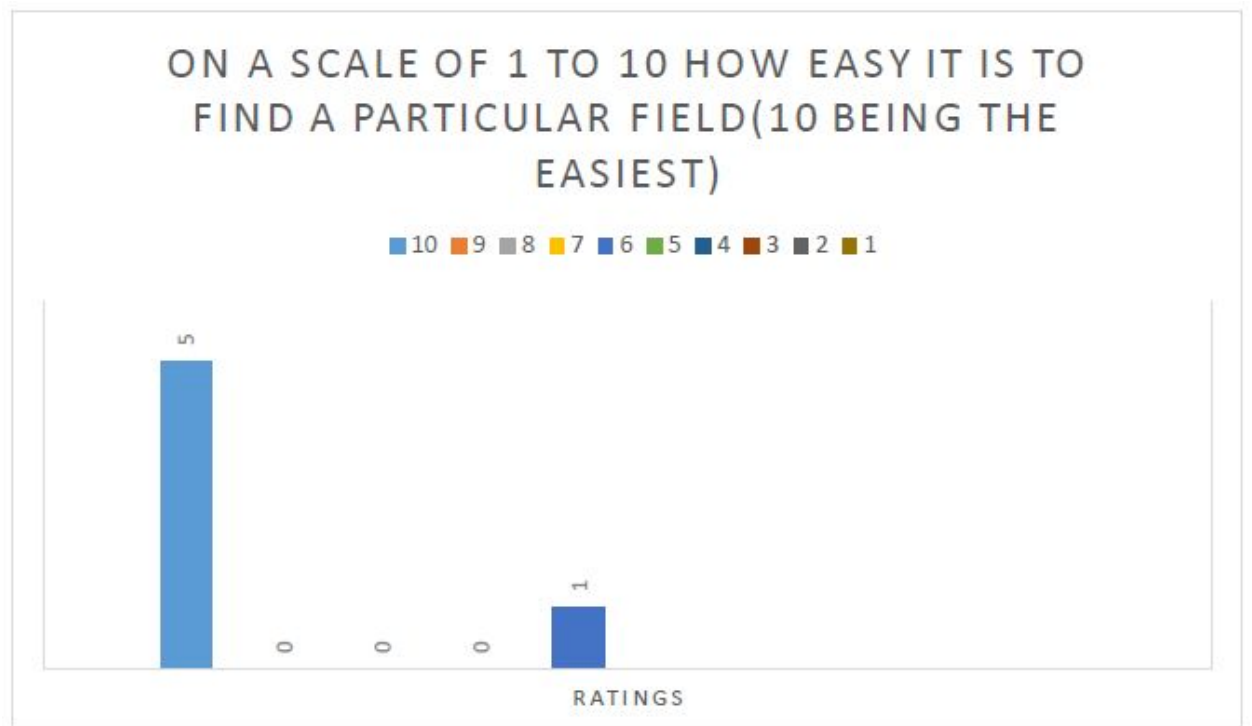
8.

Average=9.5



9.

Average=9.16



10.

Average = 9.33

## Conclusions

The overall performance of the application is good. The participants were comfortable with the interface. They were able to perform the given tasks without any further doubts as the application guided the users. The application was able to restrict the user from committing a mistake. The responsiveness of the application was pretty good. Apart from the below suggestions and concerns, I would like to conclude that the application satisfies all the usability requirements for a mobile application.

- For fields like Wave length, Air temperature. Measurement did not display any measurement units, which would confuse the users while filling the form. So the suggestion would be to display the measurement units
- On the review page the delete button was on the center of the page. This may sometimes mislead the user. So the suggestion would be to change the delete button's location

## Appendix A

Day of Week	Time	Location	Developers	Attended
Monday	5:00 PM	Rekhi 117	Michael ,Nick	Yes
Tuesday	3:00 PM	Rekhi 113	Miles, Louis	Yes
Tuesday	4:00 PM	Rekhi 113	Miles, Louis	Yes
Wednesday	3:00 PM	Rekhi 117	Miles	Yes
Thursday	4:00 PM	Rekhi 117	Miles	Yes
Thursday	5:00 PM	Rekhi 117	Jimmy	Yes

## Appendix B

<b>Bug #</b>	<b>Bug Name</b>	<b>Bug location</b>	<b>Bug description</b>	<b>Bug Severity</b>
1	Non-Mandatory Beach Name	Beach Selection page	User can submit a form without giving the beach name or location	High
2	Missing Iphone Beach Selection Autofill	Beach Selection page	On Iphone Beach selection Autofill is absent	High
3	Iphone Dropdown	Dropdown fields in the App	Need to select a drop down option twice on Iphone	medium
4	CheckBoxes	Checkboxes in the App	Checkboxes have to be clicked on twice to make a selection	medium