

# Evaluation Assignment 4

## Usability Test Plan

### Beach Monitoring App

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**Pre-test questions (given before any scenarios):**

1. How many years have you used a smart phone?
  
2. Please indicate your level of agreement to the follow statement:  
I am very interest in the testing of this application.
  1. Strongly agree
  2. Agree
  3. Neutral
  4. Disagree
  5. Strongly disagree
  
3. Have you ever filled a survey form
  1. Yes
  2. No
  
4. What is your Age?
  
5. What is your Gender?
  1. Female
  2. Male
  
6. Do you have any idea about the data collected at the beach , for eg PH level,rain intensity?
  1. Yes
  2. No

## 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
2. How many bugs were uncovered.
3. How many times the participant asked for the help of developer.

- **Scenario description**

Imagine yourself as a beach monitoring intern. You are at a beach collecting data and gathered all the information related to it. You now start filling the form by logging into the Beach Monitoring Application.

- **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.
2. How long was to find a missing field.
3. Does the participants suggests 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
- **Post test questions** (given after the all the scenarios are completed):
    1. How hard it is to fill the whole Form on a scale of 1 to 10  
\_\_\_\_\_
    2. Do you suggest any improvements  
\_\_\_\_\_
    3. How comfortable you are using the interface on a scale of 1 to 10.  
\_\_\_\_\_
    4. Are you able to identify the field which u left blank or error field which is not letting you submit the form
      1. Yes
      2. No
    5. Please indicate your level of agreement to the follow statement:  
Overall, this application was easy to perform the task.
      1. Strongly agree
      2. Agree
      3. Neutral
      4. Disagree
      5. Strongly disagree

6. Please indicate your level of agreement to the follow statement:

I enjoy using this application.

1. Very much
2. A little bit
3. Neutral
4. Not very much
5. Not at all

7. Please indicate your level of agreement to the follow statement:

I would use this application again.

1. Strongly agree
2. Agree
3. Neutral
4. Disagree
5. Strongly disagree

● **Bug Report Form**

<b>Bug Number</b>	<b>Bug Name</b>	<b>Bug Uniqueness</b>	<b>Bug location</b>	<b>Bug description</b>

● **Test setup details**

1. No Unusual details to mention.
2. A simple smartphone with the Beach Monitoring app installed.

## 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
  2. How many bugs were uncovered.
  3. How many times the participant asked for the help of developer.
- **Scenario description:**

You are filling a survey and exited the app without submitting it or the internet was down, so the form was not able to be submitted. Now the form is saved in the unsubmitted form log. Now you open one of the these form to edit the information.
- **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
  2. How tring was to find a field.

3. Does the participants suggests 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

● **Post test questions** (given after the all the scenarios are completed):

1. How hard it is to find a field to edit in the form on a scale of 1 to 10

\_\_\_\_\_

2. Do you suggest any improvements

\_\_\_\_\_

3. How comfortable you are using the interface on a scale of 1 to 10.

\_\_\_\_\_

4. Please indicate your level of agreement to the follow statement:

Overall, this application was easy to perform the task.

1. Strongly agree
2. Agree
3. Neutral
4. Disagree
5. Strongly disagree

5. Please indicate your level of agreement to the follow statement:

I enjoy using this application.

1. Very much
2. A little bit
3. Neutral
4. Not very much
5. Not at all

6. Please indicate your level of agreement to the follow statement:

I would use this application again.

1. Strongly agree
2. Agree
3. Neutral
4. Disagree
5. Strongly disagree

● **Bug Report Form**

<b>Bug Number</b>	<b>Bug Name</b>	<b>Bug Uniqueness</b>	<b>Bug location</b>	<b>Bug description</b>

● **Test setup details**

1. No Unusual details to mention.
2. A simple smartphone with the Beach Monitoring app installed.

## Consent Form

### Computer User Interface Usability Testing

You are being invited to participate in a research study to determine the usefulness and usability of computer user interfaces. This study is being conducted by Dr. Robert Pastel of Michigan Technological University Computer Science Department and students in Dr. Pastel's Human-Computer Interaction (HCI) courses. The students are performing the usability tests as part of their project and to fulfill the HCI course requirements.

There are no known risks if you decide to participate in this research study. There are no costs to you for participating in the study. The information you provide and tasks that you will perform will determine the usefulness and usability of user interfaces. The questionnaires and the tasks should take less than an hour to complete. The information collected may not benefit you directly, but the information learned in this study should provide more general benefits.

The questionnaires and test are anonymous. Do not write your name on the survey. No one will be able to identify you or your answers, and no one will know whether or not you participated in the study except for the instructor of the class that is giving you credit for participating. Should the data be published, no individual information will be disclosed.

Your participation in this study is voluntary. By completing the questionnaires and performing the tasks, you are voluntarily agreeing to participate. You are free to decline to answer any particular question you do not wish to answer or not to perform a task for any reason.

If you have any questions about the study, please contact Dr. Robert Pastel, Assistant Professor, Computer Science Department, Michigan Technological University, Houghton, MI 49931.

The MTU Institutional Review Board has reviewed my request to conduct this project. If you have any concerns about your rights in this study, please contact Joanne Polzien of the MTU-IRB at 906-487-2902 or email [jpolzien@mtu.edu](mailto:jpolzien@mtu.edu).

Participant signature and date: