

EVALUATOR : Avinash Subramanian

Email : avsubram@mtu.edu

Course : HCI - Usability Testing - CS5760

ASSIGNMENT : EVALUATION 4 - Usability Test Plan

Team : COFFEE (Team 3)

Section 1: Pre Interview questions:

1. How comfortable are you with using smartphones?

- a. Very comfortable
- b. Comfortable
- c. Average
- d. Not comfortable
- e. Strongly not comfortable

2. Are you interested in taking up this usability testing for our COFFEE application?

- a. Very interested
- b. Interested
- c. Neutral
- d. Not interested
- e. Strongly not interested

Section 2 : Test Scenarios

TEST SCENARIO 1:

1. **Test Scenario Name** : Select north location and select 5 leaves as infected

2. **Test Goals for the scenario**

Make the user to select north location and after the leaves page loads, make them select 5 leaves as infected - two in the top row, two in the middle row and one in the last row.

3. **Quantitative measurement list**

- a. Time taken to find north position and enter the leaf selection page
- b. Time taken to select 5 leaves as infected
- c. Time taken to save the selected data and return to the previous page
- d. How many times the user clicks a leaf more than once without waiting the time taken for the selection appears
- e. Overall time taken for the entire scenario

4. **Scenario description**

Assume that you find an infected plant in the north region of where you are currently standing. And you find two leaves in the top row, two leaves in the middle row and one leaf in the last row as infected. Use the app to select the north region and select the leaves that are infected from right positions as given in the description

5. **Task list**

- a. Select north region
- b. Selected two infected leaves in the top row
- c. Select two infected leaves from the middle row
- d. Select two infected leaves from the last row
- e. Click save to return to the previous step

6. Qualitative measurement list

- a. How is the user face expressions while looking to select 5 leaves from different rows ?
- b. Does the user make any comments about the process ?
- c. Does the user feel any lag while selecting the leaves ?
- d. User's reactions of understanding the scenario

7. Potential observations of participant

- a. Does the user clearly understand the working of the application ?
- b. Does user have any suggestions to the application in general ?
- c. Does the user understand the instructions to select the infected leaves ?
- d. Does the user get irritated at any point of the process ?

8. Bug Report Form : Template is attached to the bottom of the page

9. Post Scenario interview or questionnaire questions

- a. What does the user think about the interface while selecting the infected leaves ?
- b. Does the user have any comments about the scenario ?

10. Test set-up details : The test will be conducted in an environment where enough lighting is available and the user can clearly see all the leaves.

TEST SCENARIO 2:

1. Test Scenario Name : Identifying the infected leaves

2. Test Goals for the scenario

Make the user understand the level of infected leaves by reading the about section first and show them a set of similar leaf images and to estimate the level of understanding given by the about section description. This scenario would give a clear picture of whether the information provided is sufficient to identify the infected coffee leaves. Since the application will be deployed to be used by farmers, it is vital that the level of infection is noted clearly enough

3. Quantitative measurement list

- a. Time taken by the user to read through the about section
- b. Number of times user has to scroll up or down
- c. Number of leaves identifies correctly by the user matching the level of infection
- d. Number of leaves incorrectly identified by the user
- e. Average Time taken by the user to identify the level of an infected leaf

4. Scenario description

Click the About button and read through the information provided in the section. Carefully examine the images of the infected leaves and the levels of infections. After this you will be asked to identify certain leaves which are infected and you need to mention the levels of infection of each such leaf.

5. Task list

- a. Make the user click the about section
- b. Make the user read the about section completely
- c. Provide a list of images of infected coffee leaves which are infected at different levels
- d. Make the user select the level of infection for each such leaf

6. Qualitative measurement list

- a. Is the user clear enough with the description given for infected leaves ?
- b. How easily the user identifies the infected leaves
- c. User's face expressions while selecting the levels of infected leaves
- d. Does the user get confused at any point doing the test scenario ?

7. Potential observations of participant

- a. Does the user feel enough information has been provided to clearly understand the different levels of infection in coffee leaves ?
- b. General comment on the about section and how it can be improved to be more clear

8. Bug Report Form : The bugs will be collected from the bug report form

9. Post Scenario interview or questionnaire questions

- a. Was the user stressed at any point while identifying the levels of infection in the sample leaves ?
- b. Were right colors used to depict different levels of infection ?

TEST SCENARIO 3:

1. Test Scenario Name : View past submissions

2. Test Goals for the scenario

To ensure that the users can comfortably view their past submissions from the submissions section, this scenario has been designed. This will mainly help the user to note down and refer to what all leaves they have previously identified and makes sure that they do not repeat the same infected leaves.

3. Quantitative measurement list

- a. Time taken by the user to view a submission made before 5 days. (Assume on an average a user makes 2 submissions every day)
- b. Number of times the user clicks on the wrong submission by mistake and click the back button
- c. Time taken for the submission to load. Is it negligible ?

4. Scenario description

Assume that a typical user will provide 2 submissions a day and it is done on an everyday basis. We have created some sample submissions already you will need to view the submission that was made before 5 days. Find the last submission which was made on the following date : _____. Identify the location and the level of risk of the infection of the coffee leaves

5. Task list

- a. Click submissions button
- b. Scroll down to find the submission made on the given date
- c. Make the user identify the location of the submission
- d. Make the user identify the level of risk of the infected leaves submission made

6. Qualitative measurement list

- a. Note the facial expressions of the user while searching for the required submission
- b. How easy is it to scroll down the list of submissions for the user ?
- c. Does the user get confused at any point of the scenario process ?

7. Potential observations of participant

- a. Get general comments from the user about the submissions section
- b. Any difficulties in viewing the past submissions
- c. Suggestions to get more clarity on finding submissions

8. Bug Report Form : will be attached at the bottom

9. Post Scenario interview or questionnaire questions

- a. How easy was it to scroll down to the past submissions ?
- b. Were you finding it difficult to reach the required submission ?

TEST SCENARIO 4

1. **Test Scenario Name : get location latitude and longitude from the application** (if the implementation is complete by then)

2. **Test Goals for the scenario**

The main goal of this test scenario is to verify the retrieval of location coordinates from the application's get location button and to check for the speed and correctness of the retrieved data.

3. **Quantitative measurement list**

- a. Time taken to retrieve latitude and longitude location after clicking the get location button
- b. Exact coordinate value of the location obtained

4. **Scenario description**

- a. Click a new submission and use the get location button to get the location of the current spot you are located

5. **Task list**

- a. Click new submission
- b. Click get location button
- c. Wait until the latitude and longitude is detected

6. **Qualitative measurement list**

- a. Is the location taking too long to be retrieved ?
- b. Approximation of the coordinates - is it correct ?
- c. Facial expression of the user while waiting for the location to be retrieved.

7. **Potential observations of participant**

- a. User comments on retrieving location as latitude and longitude
- b. General comments on improving the interface of getting the location

8. Bug Report Form : attached at the bottom of the document

9. Post Scenario interview or questionnaire questions :

a. Did you have to wait for too long to get the location from the application ?

10. Test set up details - to be conducted at a place which is not underground or in a place where location is difficult to be determined.

Section 3 : Post Testing questions

- 1. How much satisfied were you overall with the interface of the application ?**
 - a. Very satisfied
 - b. Satisfied
 - c. Moderately satisfied
 - d. Average
 - e. Not satisfied

- 2. Do you think the application will be easy to use if you do not have too much experience with smart phones ?**
 - a. Strongly agree
 - b. Agree
 - c. Neutral
 - d. Disagree
 - e. Strongly disagree

- 3. How much would you rate the application overall with respect to its simplicity and ease of use on a scale of 5 ?**
 - a. 5
 - b. 4
 - c. 3
 - d. 2
 - e. 1

Section 4 : Bug Report Form

Bug Number	Bug Name	Bug Uniqueness	Bug Description