

Usability Testing Plan

Evaluation 4

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Team Dead Birds

Scientist: David Flaspohr

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Participant Details:

Name:	
Major:	
Email:	

Pretest questions

1. How many years have you used a computer?

2. How many years have you used a smartphone?

3. Please indicate your level of agreement to the follow statement: I am very interest in the testing of this application.
 - a) Strongly agree
 - b) Agree
 - c) Neutral
 - d) Disagree
 - e) Strongly disagree

About the app...

The undergrad team of CS4760 has developed an app under the guidance of David Flaspohr named, Dead Birds. This is a citizen science application that aims at collecting data about bird deaths across regions. The app users are required to upload pictures and fill a form while reporting an incidents. The data collected through the app can be visualized by the scientists. Using this information the scientists can deduct the number of bird deaths and causes in any region.

About the team...

Name	Role	Department
Eric Vasey	Team Leader	Computer Science
Rebecca Driver	Team Leader	Humanities
Caleb Chapman	Team Member	Computer Science
Jonathan Faron	Team Member	Computer Science
Ryan Fenton-Garcia	Team Member	Computer Science
Bradley Ross	Team Member	Computer Science
Kuber Dutt Sharma	Consultant	Computer Science
Haitang Duan	Consultant	Computer Science

Test scenario 1

1. Test scenario name

Sign-up and Login

2. Test Goals for the scenario

The goal of this scenario is to test the login and going to the home page. Another goal of this test is to test the response of the application if the wrong login information is provided.

3. Quantitative measurement list

- a) The time user needs to login into the application.
- b) The number of times user cannot login.
- c) The time user needs to go home page.
- d) The number of times users find the task difficult and ask test coordinators for help.

4. Scenario description

The user of this app can report incidents with or without accounts on the app. So to test a scenario where a user wants to report incidents after creating an account, we are testing the login feature of the app. Here we will test how the application responds to correct and incorrect data provided at the time of sign-up or login.

“Assume you have to report the a new incident. You can do that by creating an account or as a guest user. For this test case you are required to create 2 new accounts. The privileges for the first account would be of a user who reports incidents. The privileges for the second account would be for a scientist who can access all data recorded through the app. You will sign out after creation of each account and try logging in using the same credentials. If successful you will log out from each account.”

5. Task list

For Sign-up

The participant will perform the following tasks.

- a) Find the correct button to login
- b) Select a new user name and password
- c) Press login button

- d) After successful login, the user can view submitted data.
- e) Find the correct logout button and logout

For Login

The participant will perform the following tasks.

- a) Find the correct button to login
- b) Fill up the user name and password
- c) Press login button
- d) After successful login, the user can view submitted data.
- e) Find the correct logout button and logout

6. Qualitative measurement list

- a) Facial expression of user while waiting for login
- b) Comments by user
- c) User's attention in the application
- d) Comfort of user

7. Potential observations of participant

- a) How user or participant is reacting with the application.
- b) How the participant is giving attention to the task.
- c) User comments for improving login interface

8. Bug Report Form

Bug number	Bug name	Bug uniqueness	Bug location	Bug description

9. Post Scenario interview or questionnaire questions

a) Do you like the interface of login?

a) Did you have to wait for too long to login the home page?

Test scenario 2

1. Test scenario name:

Create new submission

2. Test Goals for the scenario

Assume that a user want to report an incident. For that he/she will click pictures of some dead birds. To report the incident the user will then go to the application. Upload the pictures and fill the form along with it.

3. Quantitative measurement list

- a) Time taken to find new report button
- b) Time to upload the image from the gallery
- c) Time taken to enter information in the form
- d) Time taken to identify the bird species
- e) Time taken to save the entered data
- f) Overall time taken for the entire scenario

4. Scenario description

The user of this app would now try to report an incident. To do so, the user would need to upload pictures form the spot and fill a form provided. The user can report incidents as guest or a registered accounts. Here we will try performing the task in both the settings.

“First login using the user account credentials from scenario 1. Now report an incident. To do so you will have to upload pictures from your gallery and fill the form with it. Once done log-out.”

“Now try repeating the same process as a guest user.”

5. Task list

The participant will perform the following tasks.

- a) Select new submission
- b) Upload photo

c) Fill the form

d) Select the submit button

6. Qualitative measurement list

a) The facial expression of user

b) Comments about this feature of user

c) User's attention in the application

d) User's comfort while entering information

7. Potential observations of participant

a) How user or participant is reacting with the application.

b) How the participant is giving attention to the task.

c) How the participant is being distracted by other elements of the application.

8. Bug Report Form

Bug number	Bug name	Bug uniqueness	Bug location	Bug description

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9. Post Scenario interview or questionnaire questions

- a) What does the user think about the interface?
- 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 upload clear pictures of bird carcasses.

Test scenario 3

1. Test scenario name:

Sign in as a scientist

2. Test Goals for the scenario

Assume that a scientist wants to analyze the number of deaths and the leading cause in any particular region. The scientist can login and access the data and generate patterns. Also the scientist can check if any report entered by a user is correct or not.

3. Quantitative measurement list

- a) Time taken to sign in
- b) Time to upload the data from database
- c) Time taken to validate any report
- d) Time taken to identify the bird species
- e) Time taken to save the entered data
- f) Overall time taken for the entire scenario

4. Scenario description

The secondary user of this app is a scientist who is responsible for validating all entries recorded by the app. The scientist can also use the data collected through the app to see patterns in bird deaths in any region.

“First login using the scientist account credentials from scenario 1. Now go to any report. Now see if the user has entered all the required data. Once done log-out.”

“Now login again as the scientist and try to access the table view of the entered data. Once done log-out.”

5. Task list

The participant will perform the following tasks.

- a) Sign in
- b) Validate report

c) Select table view

6. Qualitative measurement list

a) The facial expression of user

b) Comments about this feature of user

c) User's attention in the application

d) User's comfort while entering information

7. Potential observations of participant

a) How user or participant is reacting with the application.

b) How the participant is giving attention to the task.

c) How the participant is being distracted by other elements of the application.

8. Bug Report Form

Bug number	Bug name	Bug uniqueness	Bug location	Bug description

9. Post Scenario interview or questionnaire questions

a) What does the user think about the interface?

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 view the data in the app.

Post test questions

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

Overall, this web application was easy to perform the task.

- a) Strongly agree
- b) Agree
- c) Neutral
- d) Disagree
- e) Strongly disagree

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

I enjoy using this web application.

- a) Very much
- b) A little bit
- c) Neutral
- d) Not very much
- e) Not at all

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

1. I would use this web application again.

- a) Strongly agree
- b) Agree
- c) Neutral
- d) Disagree
- e) Strongly disagree

2. Are you satisfied with the amount of time it took to complete this task?

- a) Strongly agree
- b) Agree
- c) Neutral
- d) Disagree
- e) Strongly disagree

3. Overall, are you satisfied with the support information (tutorial, messages, and hints) when completing this task?

- a) Strongly agree
- b) Agree
- c) Neutral
- d) Disagree
- e) Strongly disagree

4. Do you feel this App reliable as a tool for related research and environment?

- a) Strongly agree

- b) Agree
- c) Neutral
- d) Disagree
- e) Strongly disagree

5. Which design did you find the most difficult to manipulate?

- a) Sign up form
- b) Login form
- c) Report dead bird data
- d) View the table data
- e) None

6. What tasks were easy to complete?

- a) Sign up form
- b) Login form
- c) Report dead bird data
- d) View the table data
- e) None

7. Would you recommend this App to a friend or other scientists?

- a) Yes
- b) No
- c) Maybe

8. What suggestion do you have for us to improve or make it easy to use?