

Usability Test Plan

TEAM VOLCANO - EVALUATION ASSIGNMENT 4
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CONTENTS

1	Testing Environment	3
2	Test Scenario 1: Explosion Form with Picture Upload	3
2.1	Test Goals	3
2.2	Test Setup	3
2.3	Task List	3
2.4	Scenario Description	3
2.5	Quantitative Measures.....	3
2.6	Qualitative Measures	3
2.7	Potential Observations	4
3	Test Scenario 2: Lava Flow Form with New Picture.....	4
3.1	Test Goals	4
3.2	Test Setup	4
3.3	Task List	4
3.4	Scenario Description	4
3.5	Quantitative Measures.....	4
3.6	Qualitative Measures	4
3.7	Potential Observations	4
4	Test Scenario 3: Plume Form with Picture Upload.....	5
4.1	Test Goals	5
4.2	Test Setup	5
4.3	Task List	5
4.4	Scenario Description	5
4.5	Quantitative Measures.....	5
4.6	Qualitative Measures	5
4.7	Potential Observations	5
5	Test Scenario 4: Admin Download.....	5
5.1	Test Goals	5
5.2	Test Setup	6
5.3	Task List	6
5.4	Scenario Description	6
5.5	Quantitative Measures.....	6

5.6	Qualitative Measures	6
5.7	Potential Observations	6
6	Appendix A: Scenario Descriptions	7
6.1	Scenario 1	7
6.2	Scenario 2	7
6.3	Scenario 3	7
6.4	Scenario 4	7
7	Appendix B: Bug Report Form	8

1 TESTING ENVIRONMENT

Participants will be in an office with a Motorola Moto X (2014) Android smartphone and a university computer running Linux Red Hat. All scenarios except the admin scenario will use the smartphone; the admin scenario will use the desktop. Sample photos of the volcano environment will be displayed on the Linux computer and used when the participants need to take a picture.

2 TEST SCENARIO 1: EXPLOSION FORM WITH PICTURE UPLOAD

2.1 TEST GOALS

Verify data entry, picture upload, and navigation for the explosion form

2.2 TEST SETUP

Have a picture of an explosion in the picture gallery on the smartphone and the browser open to the app home page

2.3 TASK LIST

- Navigate from home page to form selection page
- Select explosion form
- Select a visible and audible explosion
- Upload picture
- Submit form

2.4 SCENARIO DESCRIPTION

You are a tourist visiting the Guatemalan volcano Pacaya. The tour guide mentioned a website that gathers visitors observations about the volcano and you have it open on your smart phone. You've just saw and heard an explosion at the volcano and were able to take a picture. You are at a safe distance and can stay for a while. Please submit your observations.

2.5 QUANTITATIVE MEASURES

- Timed by stopwatch app from the form selection page to submission
- Steps to completion counted
- Navigation errors counted

2.6 QUALITATIVE MEASURES

- Analysis of post-test questions

2.7 POTENTIAL OBSERVATIONS

- Questions asked by the participants
- Subjective observations of hesitancy operating the app

3 TEST SCENARIO 2: LAVA FLOW FORM WITH NEW PICTURE

3.1 TEST GOALS

Verify data entry, camera app integration, and navigation for the lava flow form

3.2 TEST SETUP

Have a picture of a lava flow displayed on the desktop and the smartphone browser open to the form selection page

3.3 TASK LIST

- Select lava flow form
- Enter a height and width for the lava flow
- Take a picture and upload it
- Submit form

3.4 SCENARIO DESCRIPTION

You've come across the lava flow shown here <point to desktop>. Please submit your observations with a new photo.

3.5 QUANTITATIVE MEASURES

- Timed by stopwatch app from the form selection page to submission
- Steps to completion counted
- Navigation errors counted

3.6 QUALITATIVE MEASURES

- Analysis of post-test questions

3.7 POTENTIAL OBSERVATIONS

- Questions asked by the participants
- Subjective observations of hesitancy operating the app

4 TEST SCENARIO 3: PLUME FORM WITH PICTURE UPLOAD

4.1 TEST GOALS

Verify data entry, picture upload, and navigation for the plume form

4.2 TEST SETUP

Have a picture of a plume displayed on the desktop, a photo of a plume loaded in the phone's gallery, and the smartphone browser open to the form selection page

4.3 TASK LIST

- Select lava plume
- Enter a color for the plume and a direction
- Take a picture and upload it
- Submit form

4.4 SCENARIO DESCRIPTION

The volcano is emitting the plume shown here <point to desktop>. Please submit your observations and upload a photo already in the gallery. Assume forward is north, right is east, etc.

4.5 QUANTITATIVE MEASURES

- Timed by stopwatch app from the form selection page to submission
- Steps to completion counted
- Navigation errors counted

4.6 QUALITATIVE MEASURES

- Analysis of post-test questions

4.7 POTENTIAL OBSERVATIONS

- Questions asked by the participants
- Subjective observations of hesitancy operating the app

5 TEST SCENARIO 4: ADMIN DOWNLOAD

5.1 TEST GOALS

Verify admin login, admin page, and CSV download

5.2 TEST SETUP

Have the desktop browser open to the home page of the app

5.3 TASK LIST

- Open menu
- Select admin page
- Log in
- Enter a height and width for the lava flow
- Take a picture and upload it
- Submit form

5.4 SCENARIO DESCRIPTION

You're a scientist who wants to work with the data people have submitted about the volcano. Please log in using <credentials> and download the data.

5.5 QUANTITATIVE MEASURES

- Timed by stopwatch app from the home page to pressing the download button
- Steps to completion counted
- Navigation errors counted

5.6 QUALITATIVE MEASURES

- Analysis of post-test questions

5.7 POTENTIAL OBSERVATIONS

- Questions asked by the participants
- Subjective observations of hesitancy operating the app

6 APPENDIX A: SCENARIO DESCRIPTIONS

For clarity and easy reference, scenario descriptions are listed both in the scenario outlines above and here.

6.1 SCENARIO 1

You are a tourist visiting the Guatemalan volcano Pacaya. The tour guide mentioned a website that gathers visitors observations about the volcano and you have it open on your smart phone. You've just saw and heard an explosion at the volcano and were able to take a picture. You are at a safe distance and can stay for a while. Please submit your observations.

6.2 SCENARIO 2

You've come across the lava flow shown here <point to desktop>. Please submit your observations with a new photo.

6.3 SCENARIO 3

The volcano is emitting the plume shown here <point to desktop>. Please submit your observations and upload a photo already in the gallery. Assume forward is north, right is east, etc.

6.4 SCENARIO 4

You're a scientist who wants to work with the data people have submitted about the volcano. Please log in using <credentials> and download the data.

