HCI Assignment 4

User Test Plan

What are you testing?

Design brief was change. The purpose of this app was to help users learn how their daily food choices affect the environment. This was a learning app and it tracks food choice changes over time. The intent is to show facts and evidence on the environmental impact of food choices provide information and learning to users. As a result of this information, it is hoped users will change eating habits towards a plant-based diet. (Note: my daughter is an Environmental Studies major and I have been surprised that her program rarely addresses environmental issues around food choices. Plastic bottles: talked about all the time. Fossil fuels and water usage to produce animal foods: not so much).

Testing involves seeing if users learn and would make different food choices as a result of this app.

What do you want to learn? What concerns, questions, and goals is the test focusing on?

Does this approach/web site motivate people to change their eating habits to a more plant-based diet?

As such, I need to create a questionnaire for users to complete before the user test to determine their current eating habits and their current knowledge of the environmental impact of food choices (self-analysis). Then, users will explore the prototype and think aloud about their questions and reactions. At the end, I would like to see if a "light went on" during the user test so that learning occurred.

Of course, I would also like users to be able to easily navigate the prototype and to identify any usability issues.

If I had more time for testing, or perhaps as a web user test, I would want to measure the percent of plant food eaten before and after using this site.

Where/when will the test take place? How long will it take?

Test should take place just before food choices are being made – perhaps at a restaurant or coffee house. It should take about 1 hour per user.

What tasks will you ask the user to perform that will help answer your questions?

Complete an information sheet about current eating habits, knowledge of environmental impact, demographic data.

View the prototype and explore in "think aloud" method. Use the prototype to choose at least six food choices and view the learning screens.

With a Wizard of Oz spreadsheet on the side, I will manually track the simulated food choices for a day and then display the results.

At the end of the user test, discuss lessons learned and ways to improve the prototype.

How will participants share their feedback? (think aloud, questionnaire/survey, post-test interviews)

There will be a pre-survey questionnaire.

Users will "think aloud" while using the prototype.

There will be a post-test interview to discuss learning about this topic.

Outline of user test

- Greeting and thank for participating
- Explain purpose of this test: testing the prototype, not the user. All responses and feedback are valuable.
- Complete pre-survey questionnaire
- Show home page of prototype
- Ask user to explore and think aloud and, while exploring, make at least six food choice decisions.
- Add food decisions to spreadsheet as Wizard of Oz test
- Display results of Wizard of Oz test
- Debrief

Written instructions read to users

I have been taking an online course to learn about Human Computer Interaction. As part of the assignments for the course, I have developed a prototype web site. This means my prototype shows the user interactions with my web site but does not have any programming or database to support the site. The goal is to learn to design computer interfaces that are intuitive and easy-to-use.

One important part of this exercise is user testing, meaning having potential users of the site evaluate the prototype for any usability issues and to see if the site meets its objectives. I'd like you to use the prototype and talk about what you are thinking as you use it. All of your feedback is valuable to help my learning and to help make the final product better. While you use and talk about the prototype, talk about any questions you may have or any issues you are thinking about. This is a test of my prototype and I am sure that any issues you describe will also be shared by other users. I'd like to address these issues early so I can "fail sooner too succeed faster."

Thank you for agreeing to help me.

Other materials

- User consent form
- Pre-survey questionnaire

- Spreadsheet for Wizard of Oz results

User Consent Form

Study Title:

Food Choices Matter web site usability test

Description:

You are invited to participate in a web site usability user test as a part of the assignments for the Coursera Human Computer Interaction course. You will be asked to explore an prototype web site developed for the course and provide feedback on your experience with the prototype.

Time Involvement:

Your participation will take approximately one hour.

Risks and Benefits:

As of this date, no risks have been identified from this study. As a benefit, you may learn how food choices impact the environment and, as a result, you may make different food choices in the future. Your decision whether or not to participate in this study will not affect our relationship.

Payments:

There is no payment for participation.

Subject's Rights:

If you have read this form and have decided to participate in this project, please understand your **participation is voluntary** and you have the **right to withdraw your consent or discontinue participation at any time without penalty or loss of benefits to which you are otherwise entitled**. **The alternative is not to participate.** You have the right to refuse to answer particular questions. Your individual privacy will be maintained in all published and written data resulting from the study.

Contact Information:

If you have any questions, concerns or complaints about this research, its procedures, risks and benefits, contact me.

Signature:

I agree to participate in this study per the conditions described above.

_____ Date: _____

Pre-Survey Questionnaire

Food Choices Matter web site usability test
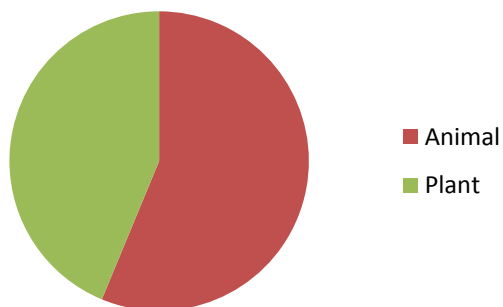
Demographic Information

Question	
Your age (circle one)	20 and under 21-30 31- 40 41-50 51 - 60 Over 60
Your gender	Male Female
What option best describes your experience with web sites	• Rarely (less than once a week) do I visit the Web • Moderate user (more than once a week, less than daily) • Experienced user (visit the web daily, explore many sites)
List the number of servings of each type of food you ate yesterday	___Cow ___Pig ___Bird ___Fish ___Diary ___Eggs ___Vegetables ___Fruit ___Grains, nuts, seeds Other (please list)
Which statement best describes your awareness of the environmental impact of food choices?	• No knowledge – never thought about it • Very little knowledge – maybe a few conversations about it • Moderate knowledge (for example, have read a few articles) • I know a lot (have read at least 1 book on topic)
Excluding food, what actions do you take to protect the environment?	Recycle regularly (plastic, glass, cans) Minimize use of water in plastic bottles Drive fuel efficient car Try to minimize water usage Other (please list)

Wizard of Oz Spreadsheet

Sample of spreadsheet used to track responses in user test.

	Animal Food						Plant Food		
	Cow	Pig	Bird	Dairy	Fish	Eggs	Fruit	Vegs	Grains
Survey Results	1	1	1	4	0	2	2	3	2
	Animal	Plant							
	9	7							
Wizard of Oz	0	0	1	1	0	2	4	5	4
	Animal	Plant							
	4	13							

Survey Results
- Animal
- Plant

Wizard of Oz Results
- Animal
- Plant