COMP1710 Report

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Abstract

This report is written about two experiments. The first one is eReader Usability Comparison and the second one is Autistic Traits Questionnaire. One is lab experiment and another one is the online survey.

Introduction

For this report, I had done two experiments. One is comparing two eReaders Usability like adjust font size and backlight and recorded the different between eReaders with my partner. The second experiment is researching the symptoms of autism. In this studying, I was taking a survey which provided by researcher Alice Macoun.

Experiment 1 eReader Usability Comparison

In this experiment, studying compared two eReaders for the usability. This experiment aims to simulate the situation when the user mislaid the manual of two eReaders then research users how to use them. (Hossain, 2017)

In this experiment, I was required find a partner and made a group, then we were asked to fill a form which recorded how we did on the eReader and different between two eReaders. At the final of form, we also were asked to analyse two eReaders' difference which included the drawback and benefit for each eReader and our own commence for this two eReader. As a participant in this experiment, the entire experiment was not difficult to us. In my part, I had operated one of eReader and recorded my partner's
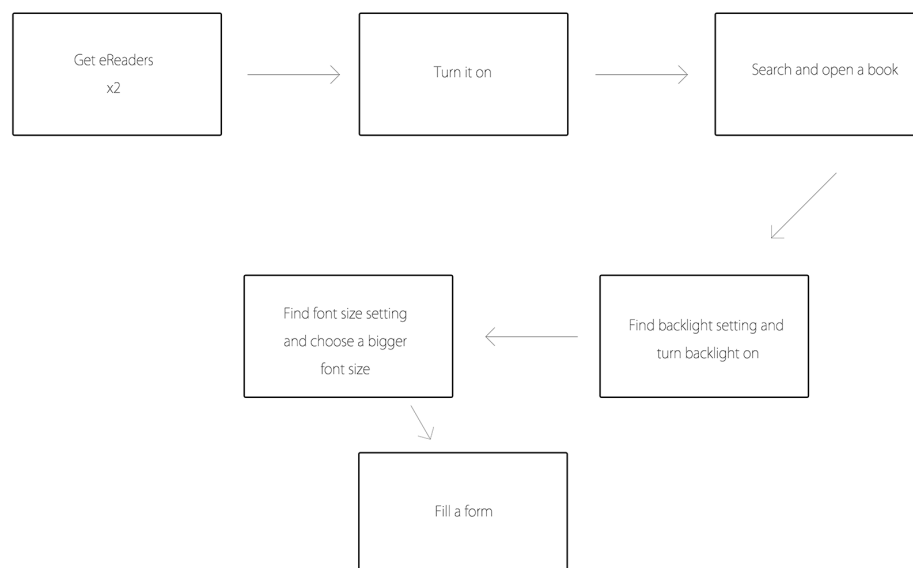
result. During my operation, firstly, I was trying to turn that eReader on and find a book. Secondly, I was trying to find the way to change the backlight brightness and turn it on then make backlight brighter. After that, try to find the font size setting and change a bigger size. For the first of two-step was easy. However, the third step was difficult because I could not find any setting item about the font size on my operated eReader. The result for this experiment given below, for Kobo Touch and Amazon Kindle they all get "good" for search function because they both have search function, but all speed are not ideal. Kobo Touch got "V. good" for backlight because it has backlight function and also able to adjust in many level. Amazon Kindle got "V. bad" because it does not have backlight function. For font size, these devices both have clear font size but unable to change by users so both device got "OK". For turn on, two devices have power button which easy to find and also easy to turn on so both device got "V. good".

	Kobo Touch	Amazon Kindle 4G
Search function	4	4
Backlight	5	0
Font size	3	3
Turn on	5	5

Table for experiment result (5 is V. good, 0 is V. bad)

For this experiment, it has some benefits. For participants, this experiment is not difficult to finish. According to the aim which simulated the user mislaid the manual for electronics, this experiment is useful, because that simulated situation is pretty common for users. However, here also has some drawbacks. In this experiment,

researcher requested use only two eReaders for each group and one for each

participant only, that could make the final data unreliable for experiment aim.

Because experiment aim is simulated one user mislaid manual for two eReaders. But

in this experiment, here is only one eReader for each participant. Furthermore,

because every people has different level for discovering stuff and ability of execution.

So that, the final data from each group which combined two different people's result

may cause that data unreliable for this experiment.

Process graph for experiment 1

Experiment 2 Autistic Traits Questionnaire

In this experiment, researcher requested take an online survey about autism. This

experiment aims to discover the degree of normal intelligence people displays autistic

traits. (Macoun, 2017)

As a participant, this experiment only needs to do a survey. The first step was some basic information questions include gender, age and educate level. After that, the survey researched more specific questions like the personal social circle and what questions for difficult does participant met. In this survey part, there are four choose for each question and that all was not difficult to finish. This questionnaire researched the level of my autistic traits as a participant.

For this experiment, it contains both strength and weaknesses. For the strength, this survey contained participant-friendly and professional questions and almost cover every part which could display the symptoms of autism. This experiment not only collected experiment data but also help participants realise them sociability and level of Autistic Traits. On the other hands partly, this questionnaire contains over 125 questions, that is too much to answer for participants (Macoun, Online Survey, 2017). Too many questions could make participants finish survey with boredom, especially in the least half of survey. To do the survey with boredom could this experiment result unreliable because motion may lead participants to choose the wrong answer or even because of boredom, participants just pick answer randomly without consider. However, in concluding, this experiment aimed the stated in the Information Sheet because it was well-conducted with clear questions and clear options to choose for each question.

Experimental comparisons

Compare these two experiments, they have different methods to achieve results which eReaders experiment is deployed by Lab and Autistic Traits Questionnaire is an online survey. Furthermore, these two experiments have different research degree, eReader experiment is able to apply to any group of people in general because the situation which mislaid manual for electronics is too common. However, Autistic Traits Questionnaire do collect data from general group people but this experiment only applies a small group people who are ASD patients. For myself, I did the eReaders experiment with seeking the result which I want to see like find some eReader's function. On the other hands, I did the Autistic Traits Questionnaire with seeking truth like choose all correct answer for all questions because these questions are all about myself.

Discussion

During take these two experiments, as a participant I feel that also is helpful for my web design at HCI part. These actually implied user concentrate during the experiment. In the eReader experiment, researcher use question form to make sure participants following his topic. On the other hand, in the Autistic Traits Questionnaire, researcher's every question in that survey are close to participants, that is a good way to make participants follow the topic. So that, like these experiments, the most important for web design is make sure users could concentrate on the web. Furthermore, the eReader experiment topic also relevant to web design. In this experiment, we have been tested for meet some new electronics without manual and

result showed us what we will do when we got something new without introduction. That is useful in my web design because my web could be new for users and certainly, I cannot insert introduction line by line to tell users how to use that web because that could be annoying for experienced users. So that, I can use my own experience in the eReader experiment and find the way to design the web following the users' logic.

Reference

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