Revised Medium-fi Prototype & Usability Testing

Due Monday, 5/22 by 1:30pm

Overview
You will first revise your med-fi prototype based on in-class feedback. Then you will conduct a formal usability study of your med-fi prototype with 3-6 people from your target user group. Based on the results from your usability study, you will make a second revision of your med-fi prototype. In class on Monday, you will present an overview of your testing and takeaways, as well as the iterations of your med-fi prototype.

Interface Redesign #1
Use the results of the in-class feedback, your own knowledge, and feedback from the teaching team to update the design of your medium-fi prototype. If you are not sure how to respond to some of the feedback and/or need to make significant updates to address the feedback that you can’t reasonably do in this short period, feel free to make an appointment with the teaching staff for guidance.

Again, all of the underlying functionality does not have to work, so you can fake much of the output, but keep in mind you want to produce a prototype that would be sufficient to carry out a usability test with target users completing your three tasks -- so the prototype should work at a level to support such a test.

Multiple prototypes option
In some cases, it may make sense to split your prototype into multiple versions to test different tasks or different variations on the same task. For example, to facilitate branching, you might make 3 different Marvel prototypes that are not connected in order to test different workflows/tasks. Or, you might have two ideas about how to design a certain area and can create two prototypes to usability test and compare.

Formal Usability Study
Run a formal usability study on your revised med-fi prototype (redesign #1). The study has several components:

1. Test Plan & Discussion Guide
Make a plan for your test including goals, target subjects and recruiting strategy, and a discussion guide to be used for moderating the study. Refer to the sample discussion guide for an example of how to structure scenarios and questions.

2. Recruiting
The study must be run on 3-6 people in your target audience. We recommend being creative and following up on all leads. If you are struggling to recruit and do not have people booked by end of day Thursday, please reach out to the teaching team ASAP.

3. Detailed Results
Analyze your data and compile the detailed results in a google doc including positive and negative findings/observations, quotes, and recommended solutions. Refer to the examples of user test summaries (below) to see various formats for how documents like this might work.

**Interface Redesign #2**

Use the results of the usability study to update the design of your medium-fi prototype. In this revision, your application should **look and feel like** what a final application running on your target platform (e.g., iPhone/Android/tablet/watch/Glass) would look and feel like. *This interaction is much more important than underlying functionality or back end computation/scalability.*

**Summary presentation**

Prepare slides to present a brief overview of your prototype and your study results in class. You should cover the following in **five minutes:**
- The prototype you tested (Interface Redesign #1)
- Overview of study goals and plan
- Top three findings from the study
- The revised interface (Interface Redesign #2)

Note that **presentations over 5 minutes will lose points.**

**Resources & Examples**

Below are linked pdfs, you can find the .docx versions [on the course website](http://hci.stanford.edu/courses/cs377e/2017/sp/) (convenient for copy & pasting or editing your own version).
- [User Test Summary 1](#) | [2](#) | [3](#)
- [Discussion Guide](#)
- [Participant Consent Form](#)

**Deliverables**

In your Drive folder, make a new folder called "Med-fi Usability" and include the following:
- A doc containing **urls** for the two revised prototypes (interface redesign #1, interface redesign #2)
- A doc containing your test plan, including discussion guide
- A doc with detailed results and design revisions
- Summary presentation

**Grading Criteria**

- Appropriateness of medium-fi prototype revisions for Interface Redesign #1 (10 points)
- Completeness of discussion guide (15 points)
- Testing with target user group (25 points)
- Quality of takeaways from usability study (20 points)
- Appropriateness of medium-fi prototype revisions for Interface Redesign #2 (20 points)
- Quality of presentation, including fitting into 5 min (10 points)