Task Analysis & Sketches (Group)

Due: Tuesday, February 5, 2013

Overview

In this assignment you will use the information and the data from your prior **contextual inquiry** to help you perform a **task analysis** of your idea.

Requirements

1. Answer the standard **task analysis** questions (attached)[hint: have a sub-section for each question].
2. Present revised versions of your **three tasks** based on these new results & feedback from teaching staff.
3. Brainstorm & sketch **three new interface ideas** beyond the ones turned in for the contextual inquiry (CI).

Deliverables

Presentation

On Feb. 5th (Tue), one member of your team will present your results from **assignments 4 and 5** in class during a **six-minute** slide-based presentation. Practice in advance (required)! You must **make the slides available for download on your team web site (later assignment)**. Look at the **final** presentations from prior classes (see http://www.cs.washington.edu/education/courses/cse440/12au/projects.html). Every presenter must give a practice presentation with the TAs.

Essay

You will submit an essay of *no more than* **3 pages** of text (12 pt. Times font or equivalent, single-spaced). [eventually you will also put a copy of the essay **on your project web site hosted on the course site**.] Follow the outline below. The essay will be graded using the guidelines on the next page.

1. Each team member's **name** and **role**.
2. Problem and solution overview (short, 1 paragraph)
3. Task analysis questions, answers, and revised tasks (1.5-2.5 pages) [subsection for each question]
4. Sketches of three different user interface ideas (free pages)

Examples

See the StyleEye team's version of this assignment from winter 2012:

http://www.cs.washington.edu/education/courses/cse440/12wi/projects/styleeye/reports/StyleEye_TaskAnalysis.pdf

Writing Guidelines / Grading Criteria

Overall writing quality (10 pts)

Make sure that your writing is easy to read. First and foremost this means making sure your writing is clear and concise. This also means using bolded section headings, liberally adding whitespace, and including images in the body of the write-up with appropriate figure numbers and captions. Refer to the figures (e.g., "(see Figure 2)") in the body of your text. Check your essay for grammar errors.

Make sure to include which team members are responsible for which roles:

Team manager (coordinate – big picture)   Design (visual/interaction)

Documentation (writing)   User testing   Development (prototyping)

Problem and solution overview (20 pts)

This overview should be a concise statement of the problem you are tackling and a brief synopsis of your proposed solution. Split into two separate paragraphs.

Task analysis questions & answers (50 pts)

Answer the standard task analysis questions. **Use examples from your contextual inquiry interviews**. Make sure to consider both existing ways of doing things (old tasks) and your proposed new way (new tasks) in answering these questions. Revise your three tasks you described on the Contextual Inquiry assignment based on this new data and any new thinking you have on these results.

Sketches of interface ideas (20 pts)

Include at least **three sketches different new interfaces ideas**. These ideas should be different than the ones turned in for the Contextual Inquiry assignment. They can be derivative of the best of those, but they should be significantly distinguished or further developed.

Presentation Guidelines

The presentation grading will be broken into two components: the individual grade of each of the presenters and a group grade for the presentation of the task analysis. Note that you should use images liberally and try to keep the text on the slides relatively brief (and **use large fonts** – no less than 20 pt anywhere). The grades for each of these components are explained in more detail below. **See prior year's final presentations.**

Presenter grade (NAME: _____)

- Suggested Organization
  - ___ Overview (1 slide)
  - ___ Overall problem & solution (1 slide)
  - ___ Contextual inquiry description & results (3 slides, **include images**)
    - make sure you say who your participants were, why chosen, how recruited, & where interviewed
  - ___ Task analysis results (3 slides)
  - ___ 3 representative tasks (3 slides)
  - ___ Early design sketches (3 slides)
  - ___ Summary
- Presentation
  - ___ Use slides. Ensure that the presentation shows appropriate preparation, and that visual aids are effective, properly prepared, and properly employed. Make sure that people at the back of the room can see your slides.
  - ___ Cover the required scope within the **6 minute time period** (there will be 2 extra minutes for questions). **Practice and time your presentation in advance as we will cut you off if you go over and you will not be able to gain points for the material you could not cover.**
  - ___ Ensure the presenter makes eye contact.
  - ___ Ensure the presenter projects their voice well.

Group grade (GROUP NAME: _____)

- Contextual inquiry
  - ___ Was the procedure carried out experimentally sound?
  - ___ Were the results illuminating in terms of the problem being attacked?
- Task Analysis
  - ___ Were the questions answered sufficiently?
- Representative Tasks
  - ___ Did they provide coverage of the functionality?
  - ___ Where the tasks too easy or too hard?
  - ___ Did they come out of the CI/TA?
- User Interface Sketches
  - ___ Did the UI ideas have a strong connection to the results of the CI/TA?
  - ___ Were the ideas presented appropriate for the supported tasks?
  - ___ Were the ideas presented at the proper level of fidelity? (i.e., **rough sketches**?)

Standard Task Analysis Questions

1. Who is going to use the system?

2. What tasks do they now perform?

3. What tasks are desired?

4. How are the tasks learned?

5. Where are the tasks performed?

6. What's the relationship between customer & data?

7. What other tools does the customer have?

8. How do users communicate with each other?

9. How often are the tasks performed?

10. What are the time constraints on the tasks?

11. What happens when things go wrong?