CSE 440 Autumn 2008: Assignment 3 Instructor: James Landay

ESM & Task Analysis (Group)

Due: Thursday, October 16, 2008

Overview

In this assignment you will use the **experience sampling** methodology to learn more about the work practices of your target customers. This information and the data from your prior **contextual inquiry** will help you perform a **task analysis** of your idea.

Requirements

- 1. Run *at least* **two** full days of ESM studies on a mobile phone with *at least* **two additional** target customers (again no CSE440 classmates and no overlap with the contextual inquiry).
- 2. Answer the standard **task analysis** questions (attached).
- 3. Present revised versions of your **three tasks** based on these new results.

Deliverables

Presentation

One member of your team will present your results from **assignments 2 and 3** in class during a **six** minutes PowerPoint-based presentation. Practice in advance! You must **make the slides available for download on the class web site**. Look at the final presentations from this class in 2007 to see what good slides look like.

Essay

You will submit **two** (2) copies of a printed essay of *no more than* 3 pages of text in class (12 pt. Times font or equivalent). You must also put a copy of the essay **online on your project web site** hosted on the course site. Your essay should follow the outline below and will be graded using the writing guidelines on the next page.

- 1. Each team member's **name**, **role** and a **URL** to an online copy of this essay.
- 2. Problem and solution overview (short, 1 paragraph)
- 3. ESM description (customers, questions, survey trigger technique, etc.) (3/4 page)
- 4. ESM results (3/4 pages)
- 5. Task analysis questions and revised tasks (1 page)
- 6. Additional appendices with raw questions/data (not part of page limit)

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Writing Guidelines

Problem and solution overview & 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:

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

Documentation (writing)

User testing

Problem and solution overview (10 pts)

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

ESM description (20 pts)

Describe the rationale behind your choice of target ESM customers. For each of the two (2) customers, give some details of their background. Describe the questions you programmed the ESM tool to use, how often the questions were asked, and any contextual triggering you used.

ESM results (20 pts)

Summarize the resulting data and point out any important results that should be taken into account in your initial tasks or designs. How often did your participants respond? What surprised you? What would you have changed about your questions if you could do it again? What was good and bad about the tool?

Task analysis questions (40 pts)

Answer the standard task analysis questions. Use examples from your contextual inquiry interviews or ESM data when applicable (indicate where the examples came from with "(CI)" or "(ESM)". 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.

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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 study results & 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 last year's final presentations.

Pr	esente	r's grades	(NAME:)	
•	Sugg	ested Organization	on		
	0	Overview			
	0		coblem & solution (1 s	slide)	
	0	-		& results (2 slides, include images)	
	0			ides, include images if you have any)	
	0		ntative tasks (1 slide)	ides, merade images ir you have any)	
	0	-	gn sketches (1-3 slide	s)	
	0	Summary	<u> </u>	-,	
•		entation			
	0	Use slides visual aids are	effective, properly pr	entation shows appropriate preparation, and that epared, and properly employed. Make sure that	
	0	Cover the		ee your slides. I the 6 minute time period (there will be 2 extra Il time your presentation in advance as we	
			ff if you go over and could not cover.	you will not be able to gain points for the	
	0	Ensure the	e presenter makes eye	contact.	
	0	Ensure the	e presenter projects the	eir voice well.	
Gr	oup gr	ade	(GROUP NAM	IE:	_)
•	Cont	extual inquiry			
	0	= •	rocedure carried out e	experimentally sound?	
	0	_		terms of the problem being attacked?	
•	ESM		\mathcal{E}		
	0	Was the pr	rocedure carried out e	xperimentally sound?	
	0			terms of the problem being attacked?	
•	Repr	esentative Tasks	C	1	
	0	Did they p	provide coverage of th	e functionality?	
	0		e tasks too easy or too		
	0	Did they c	come out of the CI and	I ESM?	
•	User	Interface Sketche	es		
	0	Did the U	I ideas have a strong of	connection to the results of the CI and ESM?	
	0	Were the i	ideas presented appro-	priate for the supported tasks?	
	0			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?