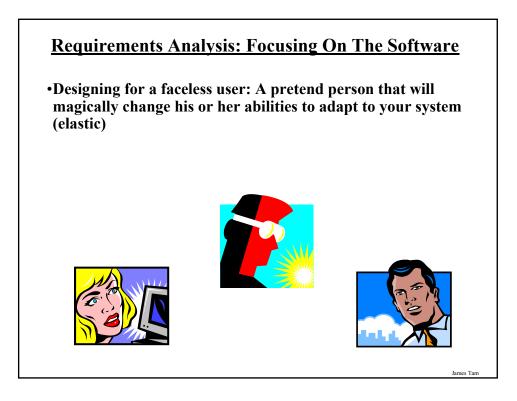
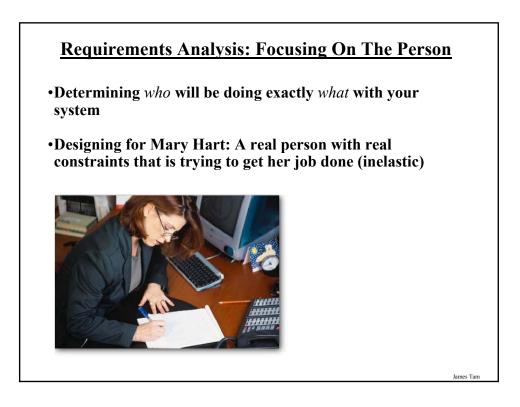


	<u>Chea</u>	<u>p Shop</u>		
	📽 Cheap Shop Catalog Store			
	Purchaser Name:	Dandedy software, screen A1,1		
Screen 1	Postal Code:	Province: City:		
Scieen i	Delivery Address:			
	Today's date:			
	Credit Card No.:	for dept use; validation id:		
	Catalog Item	Quantity: Cost/item Total:		
	Balance Owing:	Next Catalog Item (PF5) Trigger Invoice (PF8)		
	Cheap Shop Catalog Store			
Screen 2	Catalog Item	Donderly software, screen A1.2		
Scieenz	Number:	Quantity: Cost/item: Total:		
	Balance Owing:	Next Catalog Item (PF8) Trigger Invoice (PF5)		
		James Tam		





The Task-Centered Process

Phase I: Identification

- Identify specific users
- Articulate realistic example tasks

Phase II: Requirements

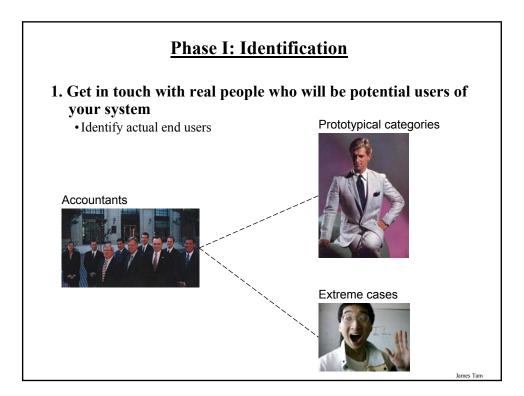
• Decide which of these tasks and which *user group* that the design will support in order to determine the requirements of the system

Phase III: Design

· Base design representation and dialog sequences on the tasks

Phase IV: Walkthrough Evaluations

• Using your design, walk through your scenarios in order to test the proposed interface



Phase I: Identification

Spend time with them discussing how the system might fit in

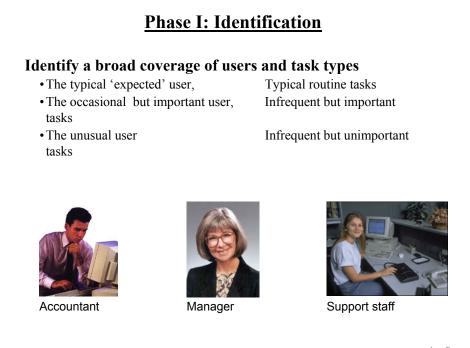
- Determine who would be willing to talk to you about this?
- If you can't get them interested, who will actually buy/use your system?

Learn about the user's tasks

- Articulate concrete, detailed examples of tasks they currently complete or those that they want to complete (ones that they currently can't do but want to do with your system)
- Categorize the tasks
 - Routine
 - Infrequent but important
 - Infrequent and unimportant



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Phase I: Identification

Ways of getting information about users and their tasks

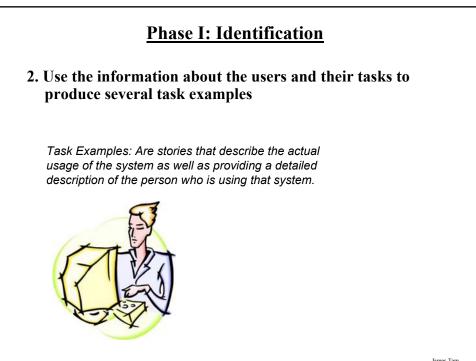
• Direct contact (ideal)

• Interview an intermediary (reasonable alternative)

If all else fails..

- Describe your expected set of users and expected set of tasks
- These will become your 'assumed users and tasks'
- Be sure that you verify this information and modify your assumptions accordingly

1 From "Freddy got fingered" © 2001 - Twentieth Century Fox



Phase 1: Identification

Characteristics of good a task

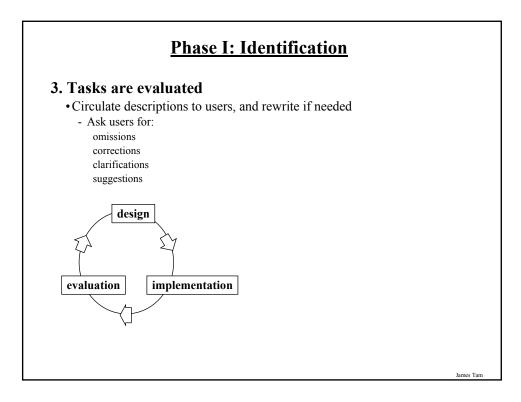
- a) Says what the user wants to do but not how they would do it
 - No assumptions made about the interface
 - Can be used to compare different design alternatives in a fair way
- b) Are very specific
 - Says exactly what the user wants to do
 - Specifies actual items the user would eventually want to input (in some form)

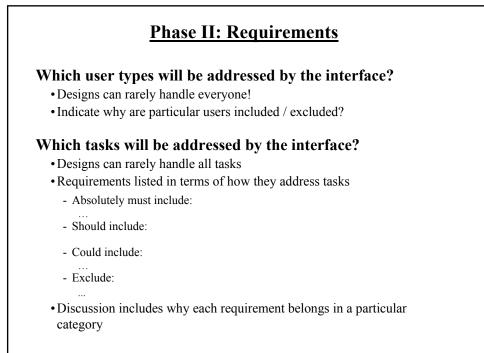
c) Describes a complete job

- Forces designer to consider how interface features work together
- Contrasts how information input/output flows through the dialog *Do not:*
- Just create a simple list of things that the system should do
- Present a goal independent of other goals

Phase I: Identification

- d) Says who the users are
 - Describe what they know
 - Name names, if possible
 - Reflects the real interests of real users
 - Find tasks that illustrate functionality in a person's real work context





Phase III: Design As Scenarios

- 1. Develop prototype interfaces around the user group and their tasks
- 2. Convert the tasks to scenarios

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Phase III: Design As Scenarios (Tasks Vs Scenarios)

Tasks

- Design independent
- Allows different ideas to be tried out

Scenarios

- Design specific
- Used to evaluate the effectiveness of a particular design

Phase IV: Walk-Through Evaluation

Scenarios are good for debugging an interface

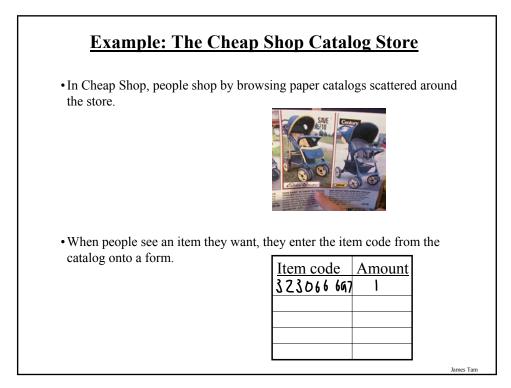
• Usability debugging

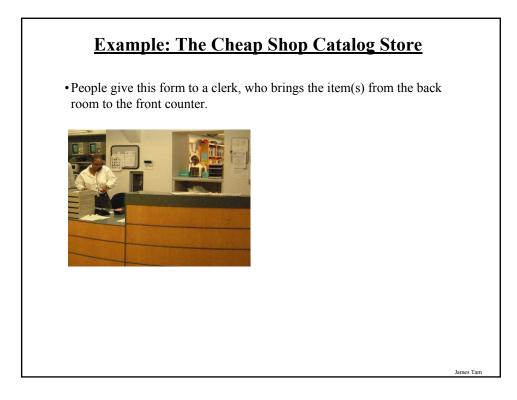
Algorithm for a walk through evaluation:

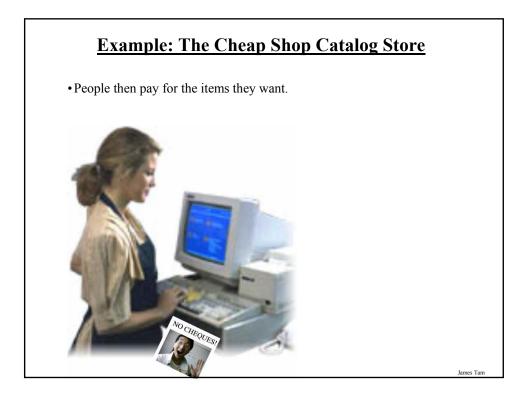
1. Select one of the scenarios

2. For each user's step/action in the scenario:

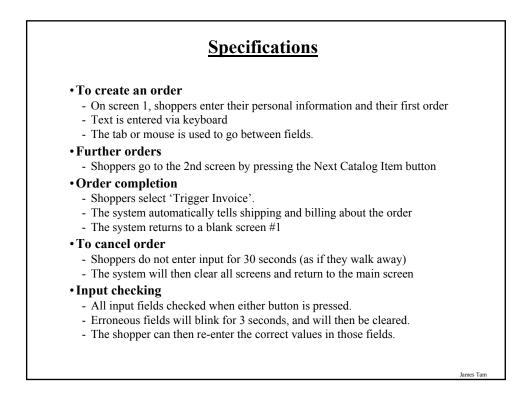
- a) Can you build a believable story that **motivates** the user's actions?
- b) Can you rely on user's expected knowledge and training about system?
- c) If you cannot rely on the above then you've located a problem!
 - Once a problem is identified, either jot down a quick solution or assume that it has been repaired
- d) Go to the next step in the scenario

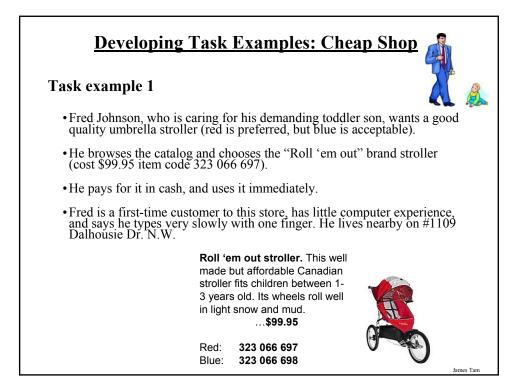


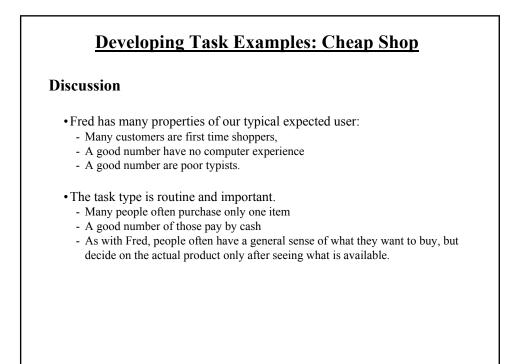




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Screen 1	Delivery Address:		
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	Credit Card No.:	for dept use: validation id:	
	Catalog Item	Quantity: Cost/item Total:	
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	S. Cheap Shop Catalog Store		
Screen 2	Catalog Item	Dandedy software, screen A1.2	
	Number: Quantity:	Quantity: Cost/item: Total:	
	Balance Owing:	Next Catalog Item (PF8) Trigger Invoice (PF5)	
			James Tam





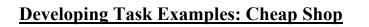


Developing Task Examples: Cheap Shop

Task example 2



- Millie Varunda is price-comparing the costs of a child's bedroom set, consisting of a wooden desk, a chair, a single bed, a mattress, a bedspread, and a pillow all made by Furnons Inc.
- She takes the description and total cost away with her to check against other stores.
- Three hours later, she returns and decides to buy everything but the chair.
- She pays by credit card,
- She asks for the items to be delivered to her daughter's home at 31247 Sun Valley Drive S.W., in the basement suite at the back of the house.
- Millie is elderly and arthritic.



Discussion

- Like Millie,
 - A reasonable number of store customers are elderly, with infirmities that inhibit their physical abilities.
 - A modest number of them also enjoy comparison shopping, perhaps because they have more time on their hands or because they are on a fixed income.
- The task type is less frequent, but still important.
 - Although this would be considered a 'major' purchase in terms of the total cost, the number of items purchased is not unusual.
 - Delivery of large items is the norm
 - Most customers pay by credit card for larger orders.

Developing Task Examples: Cheap Shop

Task example 3



- Jim Tam, Ace Salesguy TM, is the sole salesperson in the store and has been given a list of 10 items by a customer who does not want to use the computer.
- The items are:
 - 4 pine chairs, 1 pine table, 6 blue place mats, 6 "lor" forks, 6 "lor" table spoons, 6 "lor" teaspoons, 6 "lor" knives, 1 "tot" tricycle, 1 red ball, 1 "silva" croquet set
- After seeing the total, the customer tells Jim he will take all but the silverware
- The customer then decides to add 1 blue ball to the list.
- The customer starts paying by credit card, but then decides to pay cash. The customer tells Jim he wants the items delivered to his home the day after tomorrow. While this is occurring, 6 other customers are waiting for Jim.
- Jim is a new employee and this is the first time that he has worked the front counter alone

Developing Task Examples: Cheap Shop

Discussion

- This task introduces the clerk as a system user.
 - Because the store has a high turnover in its staff, new employees such as Jim are also common.
 - Thus Jim reflects a 'rare' but important group of users.
- The task type is less frequent, but still important
 - The task, while complex, is fairly typical i.e., people making large numbers of purchases often ask the clerk to help them.
 - Similarly, clerks mention that customers often change their mind partway through a transaction i.e., by changing what they want to buy and/or by changing how they want to pay for it.
 - Customers, however, rarely give specific delivery dates, with most wanting delivery as soon as possible.
 - Lineups for clerks are common during busy times.

				Scenario number: _
l o.	Description of step	Does the user have the knowledge/training to do this?	Is it believable that they are they motivated to this?	Comment / solution

Goal-Centered System Design

Goal

- Desired end condition
- Tend to be stable over time

Task

- The intermediary process that you go through to achieve your goal.
- May change as technology and work patterns change over time.

Goal-Centered System Design

Develop a Persona

- A precise and specific description of the user and what the person wishes to accomplish (goals)
- A pretend user developed from investigating the problem domain

An alternative to the Task-centered approach

See Allan Cooper 'The inmates are running the asylum'

James Tam

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Task-Based Vs. Goal-Based Approach

Task-based

- Design is based on real users
- Can ask users for more info

Goal-based

- Design is based on imaginary personas
- Avoids outlier cases

Both

• Provide a focus for the design (resolve design conflicts)

You Now Know

How to develop concrete task examples

How to use task examples to motivate your designs

How to evaluate designs through task-centered walkthroughs

What is the goal-centered approach to system design and how it differs from the task-centered approach

