Circulate	Patron Update	Item Update	Utilities	Quit	
					Saul Gr

Quick overview:

This prototype is actually based on the current text + hand scanner system now in the local library, updated to a GUI-style system

Input devices are:

keyboard + mouse

scanner pen that scans bar code numbers on books

Prototype style: Functional pull down menus

Circulate: general circulation functions

Patron update: to update information about a patron's expiry date, personal information, etc

Item update: to update information about particular holdings eg, lost + damaged books, the actual information in the holding's database record, etc

Utilities: a place to put miscellaneous functions

Quit: a single quit option

Note: I think this system is really bad, but lets see...

Circulate	Patron Update	Item Update	Utilities	Quit	
Patron Status					
Fines					
Checkin					
Checkout					
Patron Search					
Reserve					
Status: No pat	ron				
·					

The circulate pull down menu brings up appropriate screens:

Patron status: personal information, fines, library card number, etc.

Fines: to deal specifically with a person's fines

Checkin: to check in books

Check out: to check out books

Patron search: to find a customer

Reserve: to reserve a book

<u>Task 1</u>

Joan, a regular and experienced library employee, is working behind the counter.

Mary, a regular library customer brings three books to the counter and asks that they be checked out.

These are: <3 books should be listed here>.

Mary does not have her library card.

Joan finds Mary library number, checks out the books for her,

and reminds Mary that she has some late fines to pay.

Mary says she will pay for them next time.

Joan gives Mary the books, and Mary leaves.

Saul Greenberg

Here is the first (simple) task from last week...

Circulate	Patron Update	Item Update	Utilities	Quit
Patron Status				
Fines				
Checkin				
Checkout				
Patron Search				
Reserve				
Status: No pati	ron			
	btask 1: Find I Select Patron			
				Saul G

Assuming that the Mary brings the three books to the correct place,

and that Joan is ready:

Subtask 1. Joan finds Mary's librarycard number

a) must navigate to the search screen by selecting the patron search option

Circulate	Patron Update Item Update Utilities Quit	
	Patron Search	
	Name: Smith, Mary Search	
	Results	
Status: No	patron	
]
	b) enter her name	
		Saul Greenberg

B) enters patron's name and presses return or the search button

Circulate	Patron Update Iten	n Update Utilities	Quit
	Patron Search		
	Name: <i>Smith, Mary</i>	Search	
	Results: 73 matches		_
	Smith, Mandy 1 Apple Smith, Marni 372 2r	nd Ave Edmonto	
	Smyth, Larry 217 9t	chid rd Red Dee h St Canmore	
	Smyth, Martha 217 9t	h St Edgewat	
	ron is Smith, Marie		
c) no exact	t match, so the system s	hows the closest m	atches of using a
	this province-wide libr		0 /
	te customer where she l Smith, Marie with the		-

c) the name was not spelled correctly, so the system returned the closes matches. The librarian can ask for further information (eg the address), and select the correct one.

Note that there are a HUGE number of possible matches, as this system returns name from the entire Alberta database. This is bad, since almost all library patrons will be just from the surrounding area I.e., of 10,000 people.

True story: the Canmore library had an old system that let people search by names, and it returned the matches in the town of Canmore. They updated it with a new GUI system, which returned names from all of Alberta. Because of the huge number of matches and the difficulty of finding people's names (we should mention that frequent visitors expected librarians to remember their complete names, but they often only remembered a part of it but were embarrassed to ask for the rest) the library instituted a policy were customers were heavily encouraged to bring in their library cards. Thus a small computer glitch meant that librarians had more work, were sometimes embarrassed because it was clear they could not remember part of a person's name (e.g., a first name) and *all* library customers now had to carry a card with them.

Circulate	Patron Update	Item Update	Utilities	Quit	
Patron Status					
Fines					
Checkin					
Checkout					
Patron Search					
Reserve					
Status: Patron	is Smith, Marie				
	ecking out the				
a) Marie is no	w the active pa	atron, and the	Checkout	option is selec	ted
				s	aul Greenberg

The name appears on the status bar (note that the system is moded!)

So the librarian has to navigate to the checkout screen by selecting the checkout option

Circulate	Patron l	Jpdate Iter	n Update	Utilitie	s Quit	
CHECKOUT						
Title Godel, Escher a Human-Compute		Author Hofstadter Baecker, Gr		er 321-117 351-998		
Status: Patron	is Smith	Marie				
/		ne books one k's bar code		-	want to scan	

As the books are scanned in, they appear in a list. This kind of error (probably due to a dirty bar chart) is reasonably common

Circulate	Patron Update	Item Update	Utilities	Quit	
			Updates		
CHECKOUT		·	Manual s	can	
Title	Author	Number		Due	_
Godel, Escher a Human-Compute	er Ir	e bar code num	nber:		
	Type the		1001.		
	342593	32-990			
Status: Patron	is S		0	kay	
c) she go	bes to manual sca	in, and types th	ne numbo	er into	a dialog box
					Saul Greenber

Note the extra sequence of steps: a new menu selection, and this awkward number must be typed.

Circulate Patron V	Jodate Item	Update Utilities	s Quit	
	- <u> </u>			
CHECKOUT				
Title Godel, Escher and Bach Human-Computer Inter Life on the Screen	Author Hofstadter Baecker, Gr Turkle	Number 3456321-117 3654351-998 3425932-990		
Status: Patron is Smith	, Marie			
d) And verifies t Note: what wou		· · · · ·	is-typed it?]	
				Saul Greenberg

If what she typed was wrong, she now has to repeat the previous process.

Note that bar codes may be dirty, with numbers sometimes hard to read (e.g., ripped).

Why is there no way to (say) enter the title/author?

Circulate	Patron (Jpdate Item	Update Utilities	s Quit	
Patron Status					
Fines					
Checkin		Author	Number	Due	
Checkout	d Bach Inter	• • • • • • • • • • • • • • • • • • • •	3456321-117 3654351-998		
Patron Search	en	Turkle	3425932-990	7-7-98	
Reserve					
Status: Patron	is Smith	, Marie			
		Subtask 3: C a) Select Fin			
		u) Select I'm	C 5		

The librarian now has to navigate to a different screen to check for fines.

You may want to say that this is a bit heavy-weight and the Liberian may not be motivated to do this. Is there a better way to indicate that fines are due?

Circulate	Patron Update	Item Update	Utilities	Quit
ines				
Title:	Due	Returned	Amount	
The Tao of Poo	8/3/98	20/3/98	1.20	
All That Jazz		17/4/98	1.35	
Chopin, Tape 1		1/5/98	1.50	
Chopin, Tape 2		1/5/98	1.50	
hopin, Tape 3		1/5/98	1.50	
Chopin, Tape 4	4/5/98	1/5/98	1.50	
	NT PAID: <u>0.00</u> is Smith, Marie			
	es, adds them u	•		
tron about the	e outstanding a	amount of \$8.5	5. The pat	tron says she
	a also true and in	0.00 mmagaaa m	aturn whi	ah than
ll pay later, se	o sne types in	U.UU. presses r	elum, wiii	ch then

Everything is itemized on the fine page.

Why does she have to calculate the fines in her head?

Why does the system insist on her typing in the amount of the fine, even when it is 0?

Note that at the end, the system returns to the home screen. What if that patron

wanted further information or decided to do something else? The librarian would have to repeat this process...

Major concern from the walk-through

Librarian had to navigate to too many screens to do this simple task

- the flow from start to end was poor,
- librarian as had to navigate and work with three screens to do a very routine checkout task

Some sub-dialogs awkward

- Why do searches so all of Alberta instead of the local area?
- Why can't she type the bar code directly on the screen, and see the results immediately?
- Why does she have to go to a separate screen to see the fines, why does she have to sum the fines up herself, and why does she have to enter 0 to get out of that screen?

Heavy functional emphasis indicates high level of practice and training required

Note: This looks like a cosmetic GUI over an old text-based system

• adding menus, etc doesn't seem to help

Suggests major redesign

- can functions be integrated on a single screen?
- can the design be simplified?

Saul Greenberg

13