INF 131: Sample questions for midterm

Task 1 (20 minutes):

A catering service offers customers the possibility to order lunch over the Internet. Below is the main screen.

```
┌─────────────────────────────────────────────────────────────┐
│   ┌───────────────────────────┐                              │
│   │   MAIN MENU               │                              │
│   └───────────────────────────┘                              │
│   ┌──────────────────────┐  ┌─────────────────────────────┐  │
│   │ A. Order Pasta Diavolo│  │ Name:          [_____]  │  │
│   │ B. Order Jumbo Burrito│  │ Address:       [_____]  │  │
│   │ C. Order Surprise     │  │ Phone No.      [_____]  │  │
│   │    Sandwich           │  │ Credit Card No.[_____]  │  │
│   │ D. Order Chicken Soup │  │ Expiration Date:[_____]  │  │
│   │ E. Order Ham and Eggs │  └─────────────────────────────┘  │
│   │ F. Order Irish Stew   │                                   │
│   │ G. Order Gorgonzola   │    ┌──────────────┐ ┌──────────┐  │
│   │    Sandwich           │    │ Lunch code:  │ │ Submit   │  │
│   │ H. Order Mixed Fruit  │    └──────────────┘ └──────────┘  │
│   │ I. Order Turkey & Gravy│                                  │
│   └──────────────────────┘                                   │
└─────────────────────────────────────────────────────────────┘
```

QUESTIONS:

Based on theory of Human-Computer Interaction,
1. identify interface elements in the above screen that are not well designed, and explain what is wrong with them (10 minutes);
2. draw an improved screen that serves the same purpose as the original screen, and explain why your new design is better (15 minutes).

Task 2 (4 points) :

Name three of Schneiderman's "Eight Golden Rules of Interface Design"

Task 3:

The 'dir' command in BSD UNIX lists the content of directories in the following manner.
What should be improved and *why*? (3 points for one problem, 2 points for the other).

dataset_A	dataset_B	discussion_ics205	draft_journalpaper
draft_thesis	help_java	help_lisp	loveletter_monica
loveletter_sarah	party_angela	reminder_library1	reminder_library2
reminder_creditcard	renaldos_poems	robert	sarah_replies
sort_algorithms	statistics-alpha	troff.new	zmacs.dir

Task 4 (20 minutes):

After a user filled out a web form as shown below and clicked at 'Next', the error
messages in red appear. Identify what interface elements caused these errors. Redesign
the interface in such a way that these problems will be unlikely to occur.

Please fill or correct the following fields:

Initial Purchase applies to buy orders only.
Dividend Reinvestment applies to initial buy orders only.
Capital Gain Reinvestment applies to initial buy orders only.

Mutual Fund Trading

Transaction:	Quantity:	Symbol/CUSIP:
○ Buy	100	61744H10 Symbol Lookup
⊙ Sell		
○ Liquidate		
○ Full Exchange		
○ Partial Exchange		

Call your account executive for full or partial exchanges.

Quantity Type: **Account Type:**

⊙ Shares   ⊙ Cash
○ Dollars

Is this an initial purchase for the mutual fund selected above? ⊙ Yes ○ No
If 'yes' then complete the following:

☑ Dividend Reinvestment

☑ Capital Gains Reinvestment

☑ I have read, understand, and accept the terms of the prospectus.

Next   Clear