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
B. Order Jumbo Burrito
C. Order Surprise Sandwich
D. Order Chicken Soup
E. Order Ham and Eggs
F. Order Irish Stew
G. Order Gorgonzola Sandwich
H. Order Mixed Fruit
I. Order Turkey & Gravy

Name:  
Address:  
Phone No.:  
Credit Card No.:  
Expiration Date:  

Lunch code:  
Submit

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).

<table>
<thead>
<tr>
<th>dataset_A</th>
<th>dataset_B</th>
<th>discussion_ics205</th>
<th>draft_journalpaper</th>
</tr>
</thead>
<tbody>
<tr>
<td>draft_thesis</td>
<td>help_java</td>
<td>help_lisp</td>
<td>loveletter_monica</td>
</tr>
<tr>
<td>loveletter_sarah</td>
<td>party_angela</td>
<td>reminder_library1</td>
<td>reminder_library2</td>
</tr>
<tr>
<td>reminder_creditcard</td>
<td>renaldos_poems</td>
<td>robert</td>
<td>sarah_replies</td>
</tr>
<tr>
<td>sort_algorithms</td>
<td>statistics-alpha</td>
<td>troff.new</td>
<td>zmacs.dir</td>
</tr>
</tbody>
</table>

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: [ ] Buy [ ] Sell [ ] Liquidate [ ] Full Exchange [ ] Partial Exchange

Quantity: [ ] 100

Symbol/CUSIP: [ ] 51744H10

Call your account executive for full or partial exchanges.

Quantity Type: [ ] Shares [ ] Dollars
Account Type: [ ] Cash

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