Interaction Design Supervision 2

Neelu Saraswatibhatla (srns2) - CST IA

1.

a. Heuristic evaluation is used to find usability problems in a user interface design. A set of evaluators check the UI against ten heuristics and identify violations of these heuristics, along with the severity of the violations. They compile these as a set of recommendations to the designer.

The severity is rated on a scale of 1 - 4:

- 1 cosmetic problem
- 2 minor usability problem
- 3 major usability problem
- 4 usability catastrophe

The 10 heuristics are:

- i. Visibility of system status
- ii. Match between system and real world
- iii. User control and freedom
- iv. Consistency and standards
- v. Error prevention
- vi. Recognition rather than recall
- vii. Flexibility and efficiency of use
- viii. Aesthetic and minimalist design
- ix. Help users recognise and recover from errors
- x. Help and documentation

b.

- i. This is a good design, as only one of the heuristics (10) is violated.
 - 1. Visibility of system status applies, as the current selected tab is clearly shown as the active one
 - 2. Match between system and real world applies, as real world folders have tabs, much like this window
 - 3. User control and freedom applies, as the user has maximum control given that this is an options window
 - Consistency and standards applies, as the window bar looks like every Windows XP window bar, and the tabs match the OS styling, etc.
 - Error prevention applies, as there are discrete choices for options which the user selects from rather than the user specifying one
 - 6. Recognition rather than recall applies as most of the options have non-tech related meanings as well, such as directories and workspace, so users will recognise these terms
 - Flexibility and efficiency of use applies, as it is easy to modify and add options and integrate them into the design just by making these changes

- 8. Aesthetic and minimalist design applies, as the only features are the tabs and the labels, so there isn't unnecessary clutter
- 9. Help users recognise and recover from errors not applicable, as there can't be errors in a tab bar
- 10. Help and documentation violated, as there is no explanation for what each options tab represents [Severity rating 2 - the options are quite self-explanatory and documentation isn't necessarily required]
- ii. This is a good design but requires some changes, as three heuristics are violated (2, 6, and 10).
 - 1. Visibility of system status applies, as the current selected tab is clearly shown as the active one with a blue background
 - Match between system and real world violated as most of the words (e.g. Source, Compile, etc.) don't mean much in this context outside of programming [Severity rating 2 - given that this appears to be a code editor of some sort, the user likely has a fair amount of knowledge so this likely isn't a huge problem]
 - 3. User control and freedom applies, as the user has control to select whichever option they require
 - 4. Consistency and standards applies, as once again, the window bar looks like every Windows XP window bar, and the tabs match the OS styling, etc.
 - Error prevention applies, as again, there are discrete choices for options which the user selects from rather than the user specifying one
 - 6. Recognition rather than recall Violated, as similarly to heuristic 2, some of these words are quite specific [Severity rating 2 same reason as in heuristic 2]
 - 7. Flexibility and efficiency of use applies, as again, it is easy to modify and add options and integrate them into the design just by making these changes
 - 8. Aesthetic and minimalist design applies, as the only features are the tabs and the labels, so there isn't unnecessary clutter
 - 9. Help users recognise and recover from errors not applicable, as there can't be errors a menubar
 - 10. Help and documentation violated, as there is no explanation for what each options tab represents [Severity rating 3 given that these are quite specific and possible unrecognisable terms, documentation would be very useful]

2.

a.

- i. Problem: Gathering sufficient data
 Solution: Ask as many target stakeholders as possible
- ii. Problem: Managers may have different requirements to employees who are actually using the system
 Solution: Involve many different stakeholders (including these employees) in the requirements gathering process

iii. Problem: Many people may be gathering data so collaboration could be a problemSolution: Use a platform such as Google Drive (or even Git for some

purposes)

b.

- Figure-ground relationship The object in focus is different to the background - The foreground and background are clearly marked, as the foreground is a gradient of greys and the background is white with blue at the top
- ii. Proximity group by location Each icon has its label close to it (right underneath it)
- iii. Similarity group by type The menu options are all blue icons, while the menubar options are white icons
- iv. Symmetry equal margins, etc. The menu is symmetric
- v. Continuity group by alignment the menu items are aligned in the square
- vi. Closure perception of shapes that aren't completely there Not used

C.

- i. P1 Consistency and standards, Aesthetic and minimalist design
- ii. P2 Match between system and real world, Error prevention, Recognition rather than recall
- iii. P4 Help and documentation
- iv. P5 Consistency and standards
- v. P7 Consistency and standards, Help and documentation, Recognition rather than recall, Help users recognise and recover from errors