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HCI ASSIGNMENT

1)

Usability Criteria	Iphone 16	Redmi 10i
Effective to Use	10 Highly functional with seamless iOS integration; apps are optimized well.	7 Functional with good performance for the price; MIUI offers broad features.
Efficient to Use	9 Fast performance with A-series chip, smooth multitasking, optimized battery.	7 Efficient in day-to-day tasks, but can lag under heavy load or multitasking.
Error Free in Use	9 Very safe; minimal bugs, regular updates, strong security protocols.	6 Occasional software bugs; MIUI ads and bloatware can cause distractions.
Easy to Use	10 Extremely user-friendly UI; intuitive gesture control; good accessibility.	7 UI is customizable but can be cluttered for new users; learning curve exists.
Enjoyable in Use	10 Premium feel, haptics, and display make usage enjoyable; strong ecosystem.	7 Decent experience for the price; lacks polish of higher-end models.
Total Score	48/50	34/50

2) [Upload Your figma design link](#)

3) Suppose you are playing a video game or you are simply watching a video and wish to close it. In this case how much time it will take to close the video or close the game. Using KLM predict the total time you are likely to take to do that.

Answer:

Sequence of actions:

1. **M** – Mentally prepare to close the game.
2. **H** – Move hand from keyboard to mouse.
3. **P** – Point to the "X" button.
4. **BB** – Click the "X" button.

Total Time Calculation:

- $M = 1.35$ sec
- $H = 0.40$ sec
- $P = 1.10$ sec
- $BB = 0.20$ sec

Total time = $1.35 + 0.40 + 1.10 + 0.20 = 3.05$ seconds

4) Deleting a file • one file is to be deleted • File icon is visible and can be pointed to • Trash can icon is visible and can be pointed to • Cursor must end up in the original window that the file icon was in • Hand starts and ends on mouse • User average non-secretary typist For the Above Simple case, Predict the total time to take to perform the task using KLM Model. Answer:

- ☐ **M** – Mentally prepare to start the action.
- ☐ **P** – Point to the file icon.
- ☐ **BB** – Click and hold mouse button (start drag).
- ☐ **P** – Drag and point to the Trash icon.
- ☐ **BB** – Release mouse button (drop in trash).
- ☐ **M** – Mentally prepare to reposition.
- ☐ **P** – Point back to the original window location.

Total Time Calculations:

- ☐ $M = 1.35$
- ☐ P (to file icon) = 1.10
- ☐ BB (click & hold) = 0.20
- ☐ P (to trash icon) = 1.10
- ☐ BB (release) = 0.20
- ☐ M (prepare to return) = 1.35
- ☐ P (return to window) = 1.10

Total = $1.35 + 1.10 + 0.20 + 1.10 + 0.20 + 1.35 + 1.10 = 6.40$ seconds