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DATE: May 18,2025

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ASSIGNMENT # 2

Objective: To explore and analyze various techniques used to enhance the effectiveness and accessibility of visual, auditory, haptic, and multimodal displays in technology interfaces, with a focus on usability and inclusive design.

1. What are the techniques for improving visual, auditory, haptic, and multimodal displays?

To improve visual display we can keep in mind these following things:

- Using proper contrast to make sure that the contents are readable
- In relation to contrast, we should also apply color theory to improve clarity and reduce eye strain
- Layout and spacing of items are also matters, we should practice using grid-based layouts in order to avoid clutter
- In addition, we should also use appropriate font styles and sizes to improve readability.

In terms of auditory display:

- Normalize volume to prevent hearing damage and annoyance
- Using distinct sound cues to indicate various notifications

For haptic display:

- In relation to auditory display, we should also consider adding distinct vibrations according to various notifications

For multimodal display:

- We should consider presenting different information by combining multiple channels like visual and auditory for reliability
- Ensure cues from different modalities are temporally aligned to avoid confusion.
- Adjust modality use based on user context, preference, or ability (e.g., more audio cues for visually impaired users).