HMI ASSIGNMENT 4

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Explain the importance of grouping screen elements with a suitable example

A well designed screen:
- Reflects the capabilities, needs, and tasks of its users
- Is developed within the physical constraints imposed by the hardware on which it is displayed.
- Effectively utilizes the capabilities of its controlling software.
- Acheives the business objectives of the system for which it is designed.

To make an interface easy and pleasant to use, then, the goal in design is to:
  o Reduce visual work
  o Reduce intellectual work
  o Reduce memory work
  o Reduce motor work
  o Minimize or eliminate any burdens or instructions imposed by technology.

Visual clarity is acheived when the display elements are organized and presented in meaningful and understandable ways.

A clear and clean organization makes it easier to recoginze screen's essential elements and to ignore its secondary information when appropriate.

Ordering of Screen Data and Content:-

Divide information into units those are logical, meaningful and sensible.

Organizing by the degree interrelationship between data or information.

Providing an ordering of screen units of information and elements that is prioritized according to the user's expectations and needs.

Possible ordering schemes include:-
- Conventional
- Sequence of use
- Frequency of use
- Function
- Importance
- General to specific

Form groups that cover all possibilities.

Ensure that information that must be compared is visible at the same time.

Ensure that only information relative to the users tasks or needs is presented on the screen.

Grouping

Provide functional groupings of associated elements.

Create spatial groupings as closely as possible to five degrees of visual angle

Evenly space controls within a grouping. allowing 1/8 to 1/4 inch between each.

Visual reinforce groupings:
- Provide adequate sepration between groupings through liberal use of white space.
- Provide line borders around groups.

Visual style in Web Page Design

Maintain a consistent and unified visual style throughout the page of an entire web site.

Base the visual style on:
- The profile and goals of the web site owner.
- The profile, tastes, and excepections of the web site user