

Human Computer Interaction

CSE 4451/CSE 451 (A)

Time : 35 mins

01/20/262
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Section: A

1. Identify the goals and operators involved in the problem 'delete the second paragraph of the document' on a word processor. Now use a word processor to delete a paragraph and note your actions, goals and subgoals. How well did they match your earlier description?

[10]

2. Write differences between Short term memory and Long term memory.

[5]

3. What are mental models, and why are they important in interface design?

[5]

② // STM



LTM

① Access faster than long term. ① Access slower than short term.

② remembered ^{for} small amount of time. ② Remembered ~~for~~ long period of time.

③ easily / quickly forgettable after sometimes. ③ Hard to forget, but sometimes things are going deeper to the network chain.

④ capacity is 7 ± 2 . Not too much.

④ unlimited capacity.

⑤ Recall and recognition is easier.

⑤ Recall is much harder than the short term.

⑥ not need to practice or memorize.

⑥ need to rehearsal to remember sometimes.

③ // Mental models are connected directly to the peoples emotion. and emotion is related to the reaction that people used to show against any situation. Many man, many mind. So, absolutely the expectation will different as well. So,

While designing any interface we should be careful about the simplest way. So that people can easily access without feeling disturbed. Some people are colorblind, so we have to design such a way that everyone can see clearly, the page, button, icon, basic option should be visible in front of them. People don't like to memorize things, so we have to give them opportunity to select automatically or we can suggest some relatable option for them. In this case, time will not waste and things will be done quickly. And if any interface is designed such way, we can attract people more to our interface. All of these things are directly connected to the mental health.

① Delete the Second Paragraph of the document

In this case we can use recognition techniques. ^{also} In this case they will use frame. LTM models. Here the instructions ^{may} ~~will~~ be stored like this:-

Action: open the word processor, start from the beginning, track where the first para will end. Skip those lines that are not look like paragraph. match word by word, line by line to finish.

Goals: Have to find out the second paragraph and track the end of this paragraph. and delete it by pressing delete button.

Subgoals: click twice on the word processor application to open it simply scroll from up to down to find the goal system

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may sometime fail to ~~delete~~^{open}. So have to stay there for further execution. While the application runs successfully then do the rest of the task.

So, by training like that, they can match the instruction to fulfill the task of deleting the second paragraph.