

COSC3331 Human-Computer Interaction

QUIZ 2 (Take Home)

Assigned on March 25, 2020. Submit through blackboard by midnight on March 26, 2020.

Designing a Symptom Assessment Interface:

Quiz2 is designed to give you experience designing a user interface. It will allow you to design your own symptom assessment interface.

Background

"The aim of palliative care is to alleviate as many of the patient's symptoms as possible, and in that way, provide the best quality of life for patients and their families. To achieve this goal, the doctor must have precise knowledge about the patient's conditions and needs. If a symptom is not mentioned to the doctor, it is unlikely to be treated. Therefore, good symptom assessment is one of the most important components of delivering effective care to palliative patients." (Hallgren, 2002).

There are two typical ways doctors currently receive information about their patients. Usually, the doctor will learn about the symptoms when speaking to the patient, relatives or other caregivers. The second way to measure symptoms is to use an established symptom questionnaire. For this assignment, you will develop a novel third way: a computer interface that will allow the patient to submit his or her symptoms directly to the doctor.

Interface Requirements

As a part of the interface, there is a minimum amount of information you need to collect from the patient. You can decide how to collect this information in any manner you wish.

Patient Information

- Patient's Name
- Patient's Date of Birth
- Name of Patient's doctor
- The person using the interface (The only valid input for this question should be 'Patient' or 'Caregiver')

Symptom Assessment

The patient must answer the following three questions on a scale of zero to ten

- Wellbeing (0 = 'Best Feeling of Wellbeing', 10 = 'Worst Feeling of Wellbeing')

- Tired (0 ='Not Tired', 10='Worst Possible Tiredness')
- Pain (0='No Pain', 10='Worst Possible Pain')

Pain Assessment

Since many palliative patients have major problems with pain, specific pain assessment questions could be useful. You should allow the user to specify exactly where he or she is feeling pain. At the very least, pain should be able to be specified in the following places:

Shoulders, Left Arm, Right Arm, Chest, Stomach,
Right Leg, Left Leg, Back

You should also gather the following information about the pain:

- The time of the day the pain hurts (Morning/Afternoon/Night/All day)
- Does movement influence pain? (Yes / No)

Design Guidelines

- You should use only a single form. Your form should be no *larger* than 800x600.
- The focus is on the interface, and the grading criterion is centered on your interface design. Use command-buttons, check boxes, images, color, labels, etc. wherever and whichever way you feel would make an effective user interface.

Justify your design and explain why you choose specific interactive styles among others.

How to turn your work in:

Please paste the screenshot and the justification of your design in a single word document and submit through blackboard by the deadline.