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CS 4379B.501

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6/23/2021

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**~A computer managed interactive system that enables online users to send presents and greeting cards to their friends and loved ones. Presents should include flowers, books, and edibles. A greeting card and present wrap are optional for the user~**

1. *Specify the usability requirements of your system WRT to: efficiency, satisfaction, and effectiveness. Please provide at least one SMART requirement.*

***Efficiency:*** Every option is accurate and complete and does exactly what the user wants. Every present sent will include the flowers, books, and edibles while allowing the option to include the greeting card.

***Satisfaction:***  The user does not have a hard time using the interactive gift giving system and is able to completely use it with ease.

***Effectiveness:*** The product enables users to achieve the task of sending the gift offered through the system while adding the option of more. From start to finish the user is satisfied and unstrained, then the system is effective.

**SMART--- specific:** The tools in the interactive system are very specific to the user and should not get any more complex due to the limitations and the simplicity of the options available.

*b. Specify the usability requirements of your system WRT to: Understandability. Please provide at least one SMART requirement.*

**Understandability:** Administrate a set of checkpoints within the interactive system, for every check point there will be a check for the average rate of error. The rate of errors will be compared along with the *x* amount of users that seem to be having an issue at said checkpoints to give the administrator a better understanding on where issues are happening. This is using a SMART requirement of measurable, for even users making a mistake, or the system creating an error, can be measured to help smooth out the complications of the system.

*c. (60%) For each of the requirements listed in question (1) please define a complete procedure for testing the compliance of the system with the requirement. At least one of your procedures should stem from cognitive approach and at least one should stem from quantitative objective effort-based measures-based approach.*

***Efficiency:*** Measure the average ToT of 𝑥 users attempting 𝑦 independent identical tasks of presents and greeting card creation under a specific set of amenities constraints. Measuring the average and recording the results. Going for the lowest number to achieve highest efficiency.

***Satisfaction:***  Measurable via email-sent or built in quality control surveys. Or by giving the system to a layman and directly asking questions about ease of use and satisfaction of the use of the system.

***Effectiveness:*** Creating a snippet of code from one of the check points of the system that is used to verify the completed task of sending a gift and/or a greeting card. Then proceed to test if the gift was sent to the correct place, the greeting card had the correct wording asked of the active user, and the price of the product is correctly correlated to what was purchased.