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IAQ/Thermal + Lighting + Acoustics + Spatial + ***Organizational Behavior*** = Human Performance

NEAT:

Neat project has been established to develop the goals and methods for undertaking field research in parallel with innovative workplace desigh to definitively demostrate the role of real estate and facilities in individual and organizational effectiveness. Neat team began the development of building evaluation protocols linking environmental, technical and spatial quality to individual and organizational effectiveness.

In order to identify the performance/financial data sets of real interest to the federal sector, the team define five goals:

1. More effective organizational performance
2. Greater collaboration and social integration
3. More effective indicidual work
4. Greater health of worker
5. More effective resource use - energy and materials

EnviroQuest, the Interactive Questionaire:

The Environemnt Questionaire which NEAT team work on is to refine a number of web-based questionaires to build baseline understandings on "How do you spend your time?" and "What work tools do you use?". How to use ***interface design*** and ***interaction*** techniques to encourage users to accomplish the questioniare is the main objective of this part of NEAT.

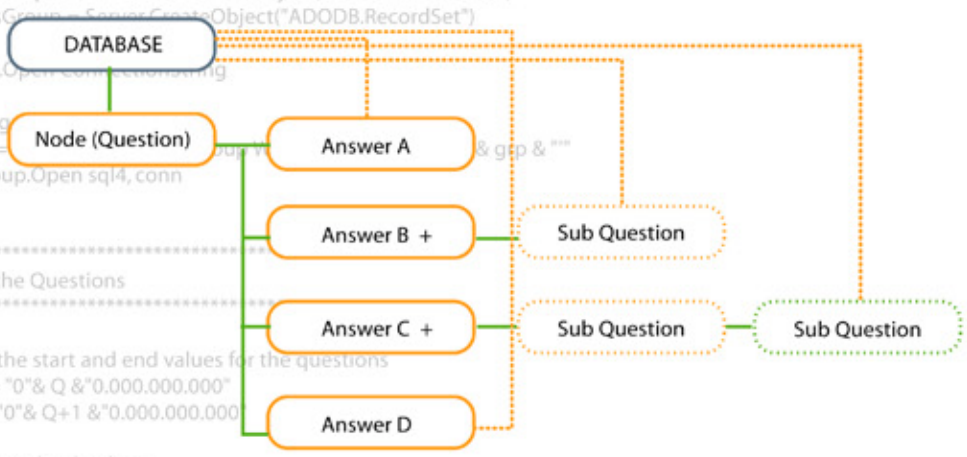
The Environment Questionaire has Six catogories, 1. ***Time Allocation Survey***, 2. T***echnical Attributes***, 3. ***User Satisfaction Survey***, 4. ***Collaboration Survey***, 5. ***WorkTools Survey*** and 6. ***Environmental Controls Survey***, idential icons are designed to fix each catogory.

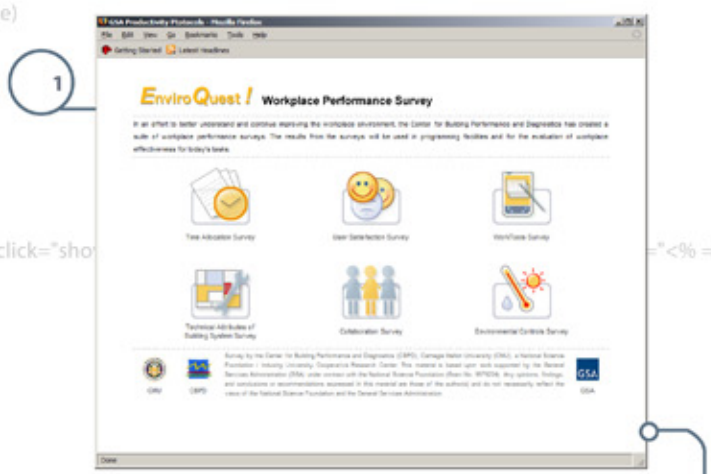
The online questionaire works as ASP which goes along with the MS ACCESS Database. In order to make the questionaire more interactive, the concept Document Object Model (DOM) is employed. And each question works as a Node in the DOM. The JavaScript and DHTML functions are created to make the interaction between questions and sub-questions.

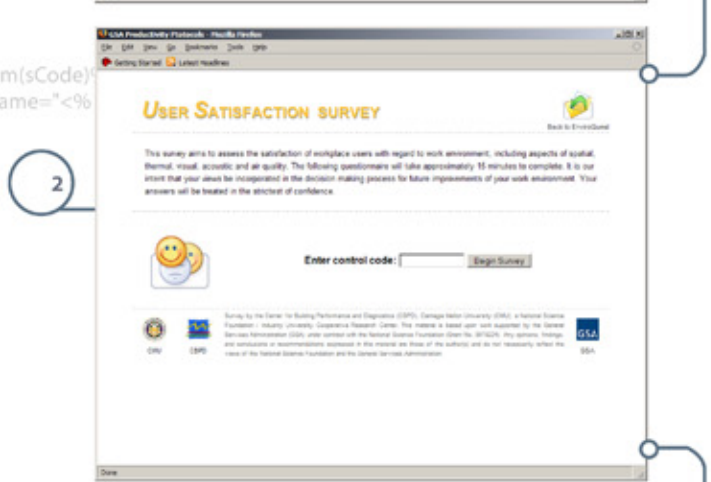
Document Object Model

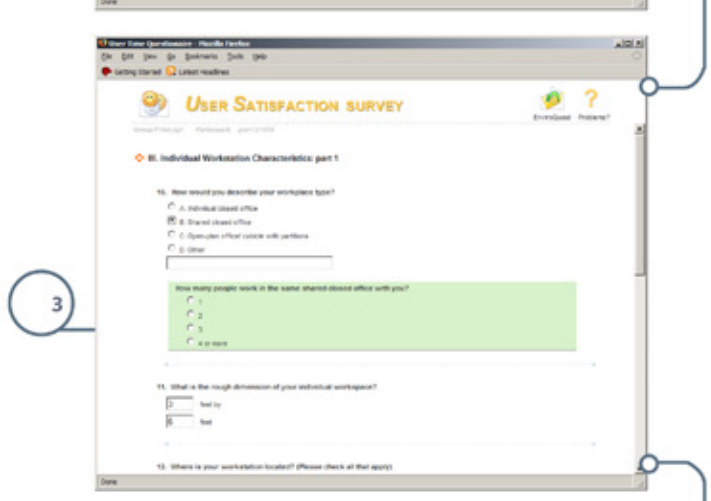
The Document Object Model is a platform- and language-neutral interface that will allow programs and scripts to dynamically access and update the content, structure and style of documents. The document canbe further processed and the results of that processing can be incorporated back into the presented page. This is an overview of DOM-related materials here at W3C and around the web.

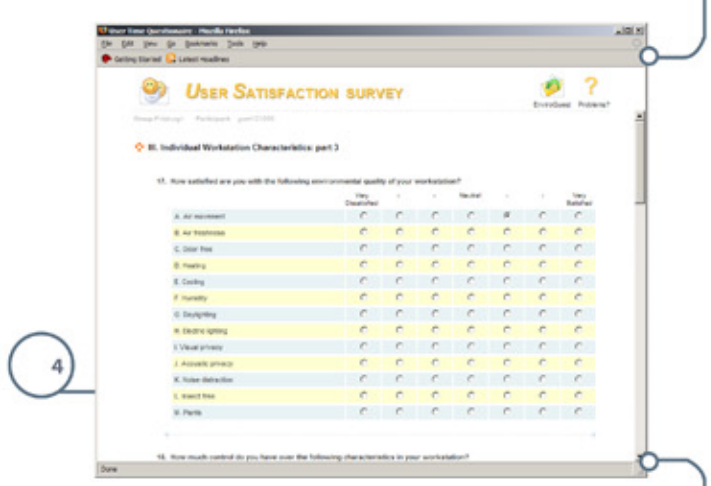
With the implementation of DOM in the EnviroQuest, the user doesn't need to waster his/her time to "manually" choose the corresponding subquestion with the answer he/she chooses. The system will automatically ***expand / close*** the corresponding subquestions and save to the Database.

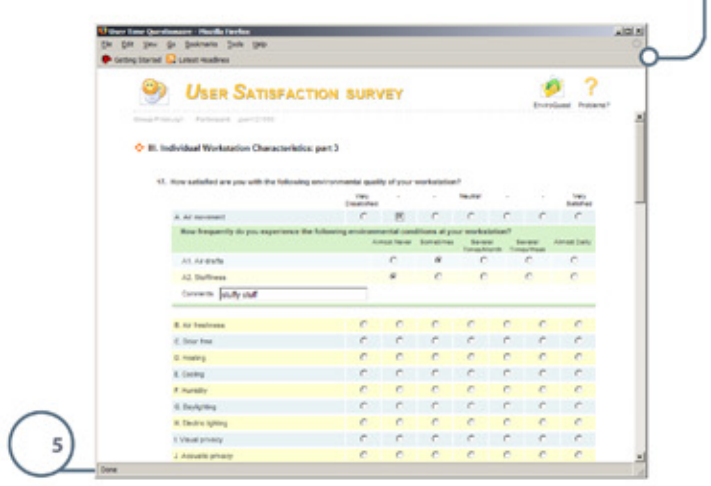












National Environmental Assessment Toolkit funded by General Services Administration

EnviroQuest in NEAT

National Environmental Assessment Toolkit

Carnegie Mellon Center for Building Performance and Diagnostics & U.S. General Services Administration