Abstract


Client's participation is one of the most important factors in the architecture design process that will affect the architect's design especially in the schematic design phase. In the case of design-build contractor's service, it will be even more effective if other specialists in the design and construction fields such as an interior designer or a contractor can provide additional information in order to avoid future problems when reach  the design development phase.

Based on this research, software solution is developed to provide interaction between the architects and design participants. One of the state-of-art technologies, 3D virtual environment technology is applied to this system. With 3D virtual environment technology, design overview and design concept will be recognized much more effectively for any design participants. Features of software can be devided into 2 parts: for architects and for design participants. The architect–based solution will import the 3D building model to database system. These imported models will be stored in the database server which connecting to the clients' software via internet. Design participants can retrieve 3D building model from this application. They can also add comments or suggestions directly to the model within this system. As a result, we can reduce time for presentation process, and provides support for collaborative design which involves more design participants for effective communication

This research presents new method of applying Adobe Flex Technology to develop 3D virtual environment for enhancing the architectural communication tool which supports the collaborative design in the schematic design phase. With this application, architect can present 3D architectural model, and design participants can add comments or suggestions in every detail of the 3D model. To enhance friendly accessibility for any users, this application can be installed to any computers which connected to the internet without any additional plug-in installation.