Design and Development of a Multi-Media Cabinet for Urban Households

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Abstract:

India is a vast country. Everybody's wish is to be unique and prefer wide range of optional styles be it anything in day to day life. With increasing population demand for the variability in the design is being sought at both personal as well as official level. Cabinetry design that includes multipurpose storage are one amongst them. The proposal project was taken up to design a Multi-Media cabinet for Urban households focusing on functionality, usability and aesthetics. Literature survey was carried out to study the variants and the background of the product. Ethnography and questionnaire survey was conducted to understand the wants and needs of the user.

Translation of customer requirements into technical requirements and analysis of research inferences from the collected data were carried out. Preparation of quality function deployment and product design specification from the analyzed results for listing out customer needs and technical voices, according to the importance of rating were carried out. Generation of the quality function deployment and product design specification by various methods which included mind mapping, brain storming and analysis of data collection. The concepts were generated accordingly, and using weightage ranking method the final concept was selected.

The final selected concept was modelled and rendered using digital modelling tools like, Pro-E, CATIA, Photoshop, key shot and others. A 1:3 scaled model of the finalised concept was made with appropriate material selection. The feedbacks were collected for the same by Validation method, and the results were positive and satisfactory.

Finalised concepts of multi -media cabinet