

## Design and Development of a Holder for Tablet PC in Vehicles



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**Abstract:**

The Tablet PC's are expensive as well as useful gadgets. But it is often difficult to carry it in vehicles due to its large size as well as unavailability of the holder. While the available models of the Holders are either more expensive or cheap looking, the design of new cheaper and aesthetically good tablet holder would be useful to tablet users as the users will be able to use it even while driving and they can get the maximum out of the tablet without any difficulties.

Primary and secondary researches have been carried out to collect data regarding the existing design of the tablet holder and the problems faced by user with this design. Quality Function Deployment (QFD) was done considering the customer and technical voice obtained as a result of the research. Detailed Product Design Specification (PDS) was created. Mind mapping was used to create ideas. Five Concepts were generated using the prepared PDS. Using the weighted ranking method, the final concept was selected which has most of the qualities which the QFD demands.

The final concept is detailed and prototype of the selected concept was made using Plastic, Steel etc. Reviews and suggestions are collected and recorded from the users. Major user needs such as usability, aesthetics and ergonomics were satisfied by the final design. This project offered a wonderful opportunity in studying the various stages involved in the design and development of a new product.



**Various concepts of table PC holder**



**Final concept**



**Prototype model**