

Abstract

In this day, we often see an attractive view in the counter ticket, that is happen long line and mad scramble, so it will make unpleasant from consumer side. Beside that, using konvensional ticket makes the ticket is possible to robbing or falsification of the ticket's. It's needed a solution to solve this problem, and one of the alternative is by using *Mobile Ticketing* Application.

Mobile ticketing application is build using barcode datamatrix as ticket proof, because barcode datamatrix have high capacity of data but have small dimension, accord with dimension of mobile devices which is generally limited. The Barcode ticket will be sending to the consumer in MMS (*Multimedia Message Service*) way, which is contains the barcode pictures and the ticket code. Before the ticket is being sending to the consumer, data from the ticket is going to encrypted and find out the hash value.

From the testing has been done, the security of barcode ticket can awake from falsification and robbing ticket, because the user can't known known format data of the ticket barcode datamatrix and not of any kind user can use the ticket. And for using it, user has no need special equipment, because it can used to handset which is support WAP and MMS technology.

Keywords : *mobile ticketing, barcode datamatrix, MMS (Multimedia Message Service).*