THE DEVELOPMENT OF PARKING SYSTEM USING 
DATA ENCRYPTION AND BARCODE TECHNOLOGY

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Abstract

Security improvement is one factor that consider in 

designing a management parking system. In addition to 

provide convenience for transaction control, the system is 

also expected to provide comfort for the user parking. 

Application-based computerized parking system with a 

webcam and barcode technology can be a good technique to 

improve security parking system. The objective of this parking 

system is the produce an efficient, reliable and secure parking 

system by using a webcam and barcode technology. In this 

final project, the license number of vehicle that enter parking 

area that became inputs, then encrypted and encoded in 

barcode form. By using the barcode as parking ticket and 

retrieval license number of the vehicle and capture images via 

a webcam, its can expected to optimize transaction security 

parking.

Keywords: Parking system, Data Encryption, Barcode, 

Security