Automatic Bus Ticketing with Smart Card and SMS Facility

Nishkarsh Kumar, Rohan Madhukar Ghalme, Sumit Sunil Londhe, Prof. M. R. Deore
Electronics and Telecommunication Engineering
Sinhgad College of Engineering, Vadgaon, Pune, India
nishkarsh.entc@gmail.com, rohanghalme51@gmail.com
londhesumit09@gmail.com, mrdeore.scoe@sinhgad.edu

Abstract: *Traditional ticketing methods are often inefficient, leading to long queues, boarding delays, and increased operational costs. To address these challenges, this project introduces an Automatic Bus Ticketing System using smart card technology and SMS notifications. This system is designed to streamline the ticketing process by enabling cashless, contactless payments through smart cards. Passengers can tap their card on an RFID-enabled reader for quick boarding, significantly reducing wait times and improving overall user experience.*

By automating transactions and fare management, the system ensures accurate billing and minimizes human errors. The backend records all transactions digitally, allowing for data analysis on passenger flow and ticket usage. This gives transit authorities valuable insights for better decision-making and efficient resource management.

Keywords: Smart bus ticketing, Cashless and digital BHARAT, fastest means of transaction