

# RFID Based Smart Master Card

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**Abstract:** *The report presents a system which is automated for ticketing and based on passenger identification. This is a user-friendly system, which automatically identifies the user's fare according to the path travelled. Radio Frequency Technology has been proven the best for many industrial Applications. RFID technology refers to where the data is digitally encoded in a tag and it is read by the reader through the radio waves. RFID tag contains electronic information stored in it. The unique ID in the RFID cards are stored in a database with the help of the internet along with personal data and creates accounts for every person. By accessing the account, it is possible to identify the user, check his/her account and deduct the fare from his/her account. In this project, an effort is taken to develop the existing smart card system by adding few new features to the ticketing system. In this study with the smart card system for ticketing of bus, train and metro we have used an android application which is connected to the system for tracking the location of the user after the transaction and the transaction message is sent to the user and its guardian as a backup data.*

**Keywords:** Smart Cards, RFID, Bus Ticketing, Train Ticketing, Metro Ticketing, Universal Pass, Public Transport

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