Abstraction

Angkot is one of Public transportation and also the largest public transportation in the city of Bandung. Often the rates provided by the city transport drivers vary and sometimes can be too expensive for the distance is not too far away. Therefore, these simulations are built to determine the price that must be paid based or distance. The system has three main components, namely; odometer simulation using a magnetic sensor (reedswitch) recorded by the microcontroller. The records such data can determine the price that will be displayed on the monitor screen in the passenger section. The data is sent via CAN Bus communication to simulate the communication in the car. RFID tag to distinguish each passenger fare, affixed to the RFID reader. This system will determine the price of each individual based on the distance of each that have been taken. For example, a passenger A fare will vary with passenger B fare and if they get in or get off in a different area. From the test results and the analysis showed that the simulation can differentiate fares of any incoming passengers with different sequences.

Key Word : odometer, angkot, RFID, Arduino, Not fix Pricing and fare.