Abstract

Now a days Sri Lanka has two main highway systems such as southern highway express and katunayaka expressway. ETC (Electronic toll controlling system) has been already installed in the katunayaka-colombo expressway and the reason that they were using this technology to build this system in the katunayaka expressway because of katunaya expressway goes to the katunaya airport therefore, vast number of vehicles has been traveling daily along this highway. The delays occurred at the highway toll stations due to money transaction should be minimized. All the functionalities in the ETC system works in automation manner such as vehicle identification, gate opening and closing even online payment system also. But ETC system is very expensive so that's why they haven't installed ETC systems in the southern expressway and another reason, there aren't a lot of vehicles running up and down one after another.

By considering these facts, I am planning to build a new system which works just similar to the ETC method but price wise my system is very cheap. I am using RFID (radio frequency identification method) technology method in order to vehicle recognizing process. All the functionalities in my system are working according to the automation manner even commuters don't need to pay their highway payments at the toll stations. In additionally, user can check their monthly payment by simply logging into the (http://ticket.lankatronics.org/) website. As a final stage of this project, I am planning to introduce a new payment system which can be used to pay the monthly payment by using credit card system instead of paying the bill to the bank.