ABSTRACT

Stadium seat are facilities used to watch football. in general, stadium seats are in an open

position. Radio Frequency Indentification (RFID) is a security system that use radio

waves, this technology uses three types of devices namely tag, reader and antenna. RFID

combines advantages not available in other indentificatin technologies. RFID can be

provided in a device that can only be read (read only) and written (read/writte), does not

require direct contact of the path of light to operate, can function in a variety of

environmental conditions, and provides a high level of data integrity, and difficult forged,

so RFID can provide a high level of security.

The RFID system is used to open the available seat in the stadium which is eqquipped

with a mircocontroller. This method aims to be ables to see an empety seat and buy the

desired seat so that it can sit according to the seat that has been purchased. So that the

safety and comfort of the audience becomes more guaranteed. This system work by

reading the audience ticket replancement card which is a substitute for a ticket and is

planced on an automatic seat, when the card is fixed the seat will open automatically

using arduino as a microcontroller, servo as a populsion. This minimize the seat number

error. And can see empety seats.

In this test we get the results of all the features available on the device that have been

designed to run well and as expected. Test the functional test system on the four seats in

the best one by one ten times with each RFID that matches the seat and RFID that does

not fit the chair. In this test, it is testd to lesrn the function read by the RFID reader in

accordance with or not the output display.

Keywords: RFID, Radio Frequency, Microcontroller

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