ABSTRACT

is western culinary, which is a type of culinary originating from the western

Many culinary delights from abroad have entered Indonesia, one example

world. Smoked beef brisket which is now in great demand by many Indonesian

citizens. This smoked beef brisket has a fairly complicated cooking technique

with a smoking technique that takes 18 hours. During smoking the temperature

must be considered so that it can ripen perfectly, the temperature must be constant

and there should not be any significant changes. This causes a temperature check

at all times.

In this final project the writer designed a system and application for

monitoring the combustion temperature based on android. The android

application will get data from the temperature sensor that is integrated with

NodeMCU. Data from these sensors will be sent to the database using wifi

connectivity. The database platform used is the Internet of Things (IoT) Platform,

namely Antares. The android application that has been designed will retrieve

temperature sensor data from Antares. The results of the data captured by the

android application will be displayed.

The results of this study show the system works well and produces the

smallest delay of 0.02689 seconds, the largest throughput of 1575.8 bytes / s and

the smallest packet loss of 0.02145 percent with the Line of Sight scenario with a

distance of 5 meters. For the Non-Line of Sight scenario, the smallest delay is

0.02755 seconds, the largest throughput is 1402.2 bytes / s and the smallest packet

loss is 0.03394 percent with research in room 1, which is 9 meters away.

Keywords: Application, NodeMCU, IoT, Antares

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