

HEALTHY CHECK

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ABSTRACT

With the decreasing number of Covid-19 in Indonesia, the government has begun to reopen schools. With parents who cannot supervise their children while attending school, teachers need to increase protection and supervision of their students to ensure students are ready to go to school. That is why Healthy Check was created, to check the health condition of students before they go to school and to anticipate the transmission of Covid-19 at school.

This manufacture and research aims to make a health condition detector and Covid-19 detector by detecting the gas content of respondents based on Arduino.

From the research data, Healthy Check can detect gas, as evidenced by the appearance of H₂ gas, Alcohol, Ammonia, Acetone, temperature, height, and weight.

Based on the SUS analysis, this tool got a score of 79 or grade C and this tool still needs improvement. Based on the Black Box Test analysis, the Healthy Check works as expected and is ready for use.

Keywords: *Healthy Check, Covid-19, Arduino, Gas detection, Breathing, SUS, Blackbox*

ABSTRACT

Dengan berkurangnya jumlah Covid-19 di Indonesia, pemerintah mulai membuka sekolah. Orang tua yang tidak dapat mengawasi anaknya saat bersekolah, guru perlu meningkatkan perlindungan terhadap siswanya untuk memastikan siswa siap untuk pergi ke sekolah, Itulah mengapa Healthy Check dibuat, untuk mengecek kesehatan siswa dan untuk mengantisipasi penularan Covid-19 di sekolah.

Pembuatan dan penelitian ini bertujuan untuk membuat alat pendeteksi kondisi kesehatan dan pendeteksi Covid-19 dengan mendeteksi kandungan gas responden berbasis Arduino.

Dari data hasil penelitian, Healthy Check dapat mendeteksi gas, dibuktikan dengan tampilnya gas H₂, Alcohol, Amonia, Acetone, suhu temperatur, tinggi, dan berat badan.

Berdasarkan analisa SUS, alat ini mendapat nilai 79 atau nilai C dan alat ini layak untuk digunakan, tetapi masih perlu perbaikan.. Berdasarkan analisa Black Box Test, dapat disimpulkan bahwa alat Healthy Check berfungsi seperti yang diharapkan dan siap digunakan.

Kata Kunci: *Healthy Check, Covid-19, Arduino, Deteksi gas, Hembusan nafas, SUS, Blackbox*