

ABSTRAK
SISTEM INFORMASI MONITORING PENDETEKSIAN DINI
PENYAKIT COVID-19 BERDASARKAN GEJALA

NADIA IMAWANGI

Berdasarkan hasil pantauan melalui kanal informasi covid19.go.id yang dikelola oleh Satuan Tugas Penanganan Covid-19 mengenai analisis data virus Covid-19 per 18 Juli 2021 ada 2,877,476 kumulatif kasus Covid-19 di Indonesia, dimana 542,236 (18,8%) diantaranya kasus aktif, 2,261,658 (78,6%) dinyatakan sembuh dari terkonfirmasi, dan 73.582 (2,6%) meninggal dunia dan terkonfirmasi terjangkit Covid-19.

Pada laporan lain sebelumnya, per data tanggal 31 Maret 2020 kasus yang terkonfirmasi sebanyak 1.528 kasus, dengan 136 kasus kematian menyebabkan tingkat mortalitas Covid-19 di Indonesia sebesar 8.9% yang merupakan angka tertinggi di Asia Tenggara.

Hal ini menjadi menakutkan bagi warga Indonesia, khususnya bagi mereka yang tidak bisa melakukan pekerjaan di rumah. Maka dari itu, perlu adanya pendeteksian dini bagi masyarakat untuk mengetahui tingkat risiko terpapar Covid-19 dengan cepat. Salah satunya adalah membangun Sistem Informasi Monitoring Deteksi Dini Penyakit Covid-19 berdasarkan Gejala. Pendeteksian menggunakan Metode *Forward Chaining*, dengan beberapa aturan yang sudah dibuat sebelumnya oleh penelitian terkait.

Perancangan Aplikasi berbasis *mobile* untuk user dan *web* untuk admin menggunakan metode pengembangan *Agile Software Development* sehingga dapat beradaptasi dengan segala perubahan kebutuhan aplikasi. Sistem ini nantinya akan berupa Aplikasi Android yang dibangun menggunakan Apache Cordova dengan framework Laravel.

Kata Kunci: *Monitoring, Pendeteksian_Dini, Covid-19, Forward_Chaining*

ABSTRACT
**MONITORING INFORMATION SYSTEM FOR EARLY DETECTION OF
COVID-19 DISEASE BASED ON SYMPTOMS**

NADIA IMAWANGI

Based on the results of monitoring through the covid19.go.id information channel managed by the Covid-19 Handling Task Force regarding the analysis of Covid-19 virus data as of July 18, 2021, there were 2,877,476 cumulative Covid-19 cases in Indonesia, of which 542.236 (18.8%) Among them were active cases, 2,261,658 (78.6%) were declared cured from being confirmed, and 73,582 (2.6%) died and were confirmed to have contracted Covid-19.

In another previous report, as of March 31, 2020, there were 1,528 confirmed cases, with 136 deaths, causing the Covid-19 mortality rate in Indonesia to be 8.9%, which is the highest number in Southeast Asia.

This becomes frightening for Indonesian citizens, especially for those who cannot do their work at home. Therefore, there is a need for early detection for the community to find out the level of risk of being exposed to Covid-19 quickly. One of them is building an Information System for Monitoring the Early Detection of Covid-19 Disease based on Symptoms. The detection uses the Forward Chaining Method, with several rules that have been previously made by related research.

The design of mobile-based applications for users and web for admins uses the Agile Software Development development method so that they can adapt to all changing application needs. This system will be an Android application built using Apache Cordova with the Laravel framework.

Kata Kunci: *Monitoring, Pendeteksian_Dini, Covid-19, Forward_Chaining*