

## INTISARI

### SISTEM *SCREENING* COVID-19 BERBASIS ANDROID

Oleh :

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Virus Corona atau *severe acute respiratory syndrome* corona virus 2 (SARS-CoV-2) adalah virus yang bisa menyerang sistem pernapasan manusia. Penyakit yang di sebabkan karena infeksi virus ini disebut COVID-19. Penyakit Virus COVID-19 termasuk penyakit baru dan masyarakat awam masih minim pengetahuan tentang gejalanya. Berbagai pengetahuan dikumpulkan dari media yang mungkin saja tidak berasal dari sumber yang terpercaya. Untuk itu diperlukan suatu media yang dapat membantu masyarakat dalam melakukan deteksi mandiri terhadap virus COVID-19. Metode pengembangan sistem menggunakan metode metode *Case Based Reasoning* yang dapat melakukan deteksi mandiri terhadap virus COVID-19 secara real time. Perancangan sistem ini menggunakan UML dan bahasa pemrograman PHP. Agar penelitian ini tidak bersifat *subjectif* maka penulis juga menggunakan metode penelitian berupa pengamatan, tinjauan pustaka, dan wawancara. Menggunakan pengujian *Black Box* untuk menguji sistem yang dibangun. Hasil yang dicapai adalah aplikasi *screening* COVID-19 yang di pergunakan oleh pasien dan tenaga medis di Klinik Kesehatan Ummi HC adalah Kuesioner Skrining COVID-19 PDKI Cabang Lampung. Aplikasi ini memiliki fitur kuesioner dan berbasis *google docs* yang nantinya bisa di isi oleh pasien dan data nya akan di kirimkan ke dokter untuk menentukan status pasien. Sehingga diharapkan dapat membantu masyarakat awam dalam melakukan deteksi mandiri terhadap kemungkinan terkena atau tertular virus COVID-19.

**Kata Kunci** : Aplikasi *Screening* COVID-19, *Case Based Reasoning*, UML, *Black Box*

## **ABSTRACT**

### **SISTEM *SCREENING* COVID-19 BERBASIS ANDROID**

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Corona virus or severe acute respiratory syndrome corona virus 2 (SARS-CoV-2) is a virus that can attack the human respiratory system. The disease caused by a viral infection is called COVID-19. The COVID-19 virus disease is a new disease and the general public still lacks knowledge of the symptoms. Various knowledge is gathered from the media which may not come from reliable sources. For this reason, a media that can help the public to independently detect the COVID-19 virus is needed. The system development method used the Case Based Reasoning method which could independently detect the COVID-19 virus in real time. The design of this system used UML and the PHP programming language. Therefore, this research was not subjective, the writer also used research methods that were observations, literature reviews, and interviews. Besides, the writer used Black Box testing to test the system being built. The results achieved were the COVID-19 screening application used by patients and medical personnel at the Ummi HC Health Clinic, the Lampung Branch PDKI COVID-19 Screening Questionnaire. This application featured a questionnaire and was based on Google docs which the patient could fill in and the data were sent to the doctor to determine the patient's status. Therefore, it was hoped that it could help ordinary people in carrying out independent detection of the possibility of being exposed to or contracting the COVID-19 virus.

**Keywords: COVID-19 Screening Application, Case Based Reasoning, UML, Black Box**