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Judul : PENERAPAN SISTEM PAKAR SCREENING COVID-19
BERBASIS WEB MENGGUNAKAN METODE FORWARD
CHAINING DAN CERTAINTY FACTOR

ABSTRAK

Pandemi COVID-19 telah membawa dampak yang signifikan di berbagai sektor, termasuk kesehatan. Upaya untuk menekan angka penularan dan meningkatkan deteksi dini perlu terus dilakukan. Salah satu cara yang dapat digunakan adalah dengan menerapkan sistem pakar screening COVID-19 berbasis web.

Skripsi ini bertujuan untuk mengembangkan sistem pakar screening COVID-19 berbasis web yang menggunakan metode forward chaining dan certainty factor. Metode forward chaining digunakan untuk menelusuri aturan dalam basis pengetahuan, sedangkan certainty factor digunakan untuk menghitung tingkat kepastian hasil diagnosis.

Sistem pakar ini dibangun menggunakan bahasa pemrograman PHP dan framework CodeIgniter. Basis pengetahuan sistem pakar ini disusun berdasarkan gejala-gejala COVID-19 yang dikeluarkan oleh Kementerian Kesehatan Republik Indonesia.

Hasil pengujian menunjukkan bahwa sistem pakar ini mampu mendiagnosis COVID-19. Sistem pakar ini juga dapat memberikan informasi pencegahan dan edukasi tentang COVID-19 kepada pengguna.

Diharapkan sistem pakar ini dapat membantu masyarakat dalam melakukan screening awal COVID-19 secara mandiri, sehingga dapat meningkatkan deteksi dini dan menekan angka penularan COVID-19.

Kata Kunci: COVID-19, Sistem Pakar, Forward Chaining, Certainty Factor, Web.

Daftar Pustaka (2020 – 2024)

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ABSTRACT

The COVID-19 pandemic has had a significant impact on various sectors, including health. Efforts to suppress the transmission rate and improve early detection need to be continued. One method that can be used is to implement a web-based COVID-19 screening expert system.

This thesis aims to develop a web-based COVID-19 screening expert system using the forward chaining and certainty factor methods. The forward chaining method is used to trace the rules in the knowledge base, while the certainty factor is used to calculate the level of certainty of the diagnosis results.

This expert system is built using the PHP programming language and the CodeIgniter framework. The knowledge base of this expert system is compiled based on the COVID-19 symptoms issued by the Ministry of Health of the Republic of Indonesia.

The results of the test show that this expert system is able to diagnose COVID-19. This expert system can also provide prevention information and education about COVID-19 to users.

It is hoped that this expert system can help the community in conducting early independent COVID-19 screening, so that it can improve early detection and suppress the transmission rate of COVID-19.

Keywords: COVID-19, Expert System, Forward Chaining, Certainty Factor, Web

Bibliography (2020 – 2024)