



**DEVELOPING REALTIME HOSPITAL MEDICAL APPOINTMENT
MOBILE-BASED APPLICATION WITH PATIENT VALIDATOR SERVICE**

UNDERGRADUATED THESIS
Submitted as one of the requirements to obtain
Sarjana Komputer (S.Kom)

By

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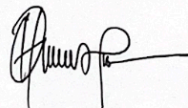
FACULTY OF COMPUTING
INFORMATION TECHNOLOGY STUDY PROGRAM
CIKARANG

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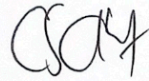
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PATIENT VALIDATOR SERVICE**

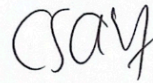
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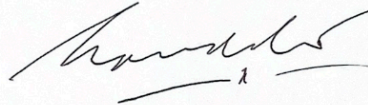
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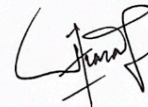
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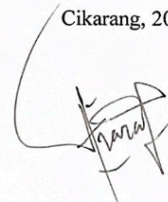
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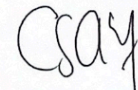
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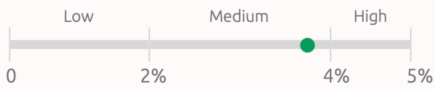
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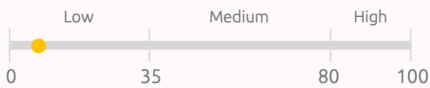
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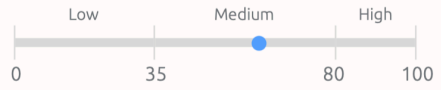
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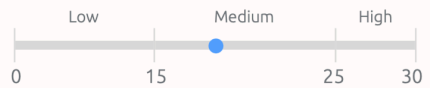
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ABSTRACT

This final project aims to develop an artificial intelligence (AI) application that can be used for Hospital Management System that focus on the Medical Check-up Services in Medan city area, Indonesia. This application is called Medan Medical Tourism. The application is designed to utilize AI's ability to manage patient data, predict waiting times, optimize resource allocation, and improve hospital operational efficiency. This application was built using the Flutter Framework, Android Studio Software, Dart programming language, and a database from MariaDB. This application can make it easier for patients to register for medical check-ups with home care services and Hospitals can implement a medical check-up registration system mobile-based.

This final project involves collecting data from a specific hospital, developing AI algorithms, and testing the application using experimental methods. The results of this study are expected to contribute significantly to the development of a more effective and efficient patient management system in Hospitals.

***Keywords**--Artificial Intelligence Application, Hospital Management, Patient Administration System, Waiting Time Prediction, Operational Efficiency.*

DEDICATION

I dedicate this final project result for me and my great family.

ACKNOWLEDGEMENT

All praise and gratitude to Allah SWT for His blessings and grace so that the author can finish this Final Project entitled “**Developing Realtime Hospital Medical Appointment Mobile-Based Application With Patient Validator Service**”. This final Project is prepared to fulfil the requirements to obtain a Bachelor's degree of Science in Informatics study programme at the President University. The author realises that without the support of various parties, the preparation of this final project will never be realised. Therefore, the author would like to express his gratitude to the following people for support me to finish this final project:

1. My beloved family who always provide support in the form of prayers, enthusiasm and attention and affection that has always been given to the author until now. Their unwavering support is a constant source of inspiration and motivation.
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Thus, this internship final report was prepared, hopefully it can provide benefits for all those who read it.

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