

Recipes and Personal Healthy Assistance Android Application based on Gemini

Tugas Akhir

**Diajukan untuk Memenuhi Salah Satu Persyaratan Mencapai
Derajat Sarjana Komputer**



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UNIVERSITAS ATMA JAYA YOGYAKARTA

2025

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RECIPES AND PERSONAL HEALTHY ASSISTANCE APPLICATION BASED ON GEMINI AI

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ABSTRACT

NutriCall is a mobile application that was created to increase awareness among Indonesian people to consume healthy foods that contain the right calories and nutrients. NutriCall is integrated with API from Gemini AI, which is connected to Railway, offering various recipe suggestions by adjusting the ingredients, calorie targets, or food text input that users are looking for, in each recipe there is also detailed nutritional and calorie information. NutriCall has various Health information features such as BMI and TDEE calculations and Health history which contains BMI and details of calories and nutrients consumed per day from the food made that day which allows users to monitor their eating habits. NutriCall also provides a well-formatted AI chat system. The NutriCall application is developed with Kotlin and utilizes Firebase for data storage, NutriCall ensures safe and efficient user data management. The backend is supported by Retrofit for smooth API communication, while Postman is used for API testing and optimization.

Keywords: NutriCall, mobile health application, nutritional awareness, Gemini AI, calorie tracking, nutritional analysis, BMI calculation, Kotlin, Firebase, healthy lifestyle

Acknowledgment

First and foremost, I would like to express my deepest gratitude to God Almighty, whose guidance and blessings have enabled me to complete this thesis successfully.

I would like to extend my sincere appreciation to my supervisor, Mr. Li Qing, Mr. Wu Hai Yong and Mr. Daniel for the invaluable guidance and encouragement throughout the process of completing this research project.

I am also profoundly grateful to my beloved family and Gregory for their unconditional support, prayers, and motivation throughout my academic journey. Their encouragement has been my greatest strength.

Furthermore, I would like to thank friends and everyone who directly or indirectly contributed to the development and completion of this project.

Lastly, special thanks to the team behind Gemini AI and the open-source community, whose technological advancements made the development of NutriCall possible.

May this work contribute to the field of mobile health technology and inspire further research and innovation.

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