

# **WEATHER FORECASTING APPLICATION USING API ON ANDROID**

by

**Alexandro Vicky**

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# HALAMAN PENGESAHAN

Tugas Akhir Berjudul

WEATHER FORECASTING APPLICATION USING API ON ANDROID

yang disusun oleh

Alexandro Vicky

190710065

dinyatakan telah memenuhi syarat pada tanggal 20 Juli 2023

		Keterangan
Dosen Pembimbing 1	: Th. Adi Purnomo Sidhi, S.T., M.T.	Telah Menyetujui
Dosen Pembimbing 2	: Yonathan Dri Handarkho, ST., M.Eng, Ph.D.	Telah Menyetujui
Tim Penguji		
Penguji 1	: Th. Adi Purnomo Sidhi, S.T., M.T.	Telah Menyetujui
Penguji 2	: Herlina, S.Kom., M.Eng	Telah Menyetujui
Penguji 3	: Joseph Eric Samodra, S.Kom., MIT	Telah Menyetujui

Yogyakarta, 20 Juli 2023

Universitas Atma Jaya Yogyakarta

Teknologi Industri

Dekan

ttd.

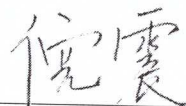
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School of Information Engineering

This thesis, written by Alexandro Vicky, and entitled WEATHER FORECASTING APPLICATION USING API ON ANDROID, having been approved in respect to style and intellectual content, is referred to you for judgment.

We have read this thesis and recommend that it be approved.



Ni Zhen<sup>←</sup>



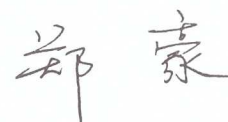
Li Qing<sup>←</sup>



Song Wanli<sup>←</sup>

Date of Defense: June 6, 2023

The thesis of Alexandro Vicky is approved.



Dean Hao Zheng  
School of Information Engineering



Zhou Hong  
Chief of Foreign Affairs Office

Nanjing Xiaozhuang University, 2023

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## **ABSTRACT**

The weather forecast application is a mobile application designed for the Android platform that offers users with accurate and up-to-date weather information. The application uses an API (Application Programming Interface) to retrieve weather data from a trusted weather data provider. The project's primary goal is to provide a user-friendly and visually appealing interface that allows users to easily access and analyze weather forecasts. The app includes features such as current weather conditions, hourly forecasts, and multi-day forecasts. Additionally, users can save their favorite locations for easy access as well as do specific location searches.

The application makes use of several API endpoints to retrieve weather data in the form of JSON (JavaScript Object Notation) responses. Afterwards, the data is sorted and presented in a systematic manner using the appropriate UI elements, including RecyclerView and ViewPager. The project also emphasizes adding more features like unit conversion, favorite/unfavorite places, and pop-up boxes for displaying additional weather information. By effectively managing API calls in the background utilizing threads and guaranteeing smooth navigation between different screens, the application is made to offer a seamless user experience.