



**PROJECT REPORT**  
**PERFORMANCE ANALYSIS OF MICROSERVICE AND**  
**MONOLITH ARCHITECTURE IN LIST FEATURES**  
**APPLICATION BACKEND AT PT BANK NEGARA**  
**INDONESIA (PERSERO) TBK.**

**VINCENTIUS MAURENO YUBILE HUTABARAT**  
**18.K1.0014**

**Faculty of Computer Science**  
**Soegijapranata Catholic University**  
**2023**

## HALAMAN PENGESAHAN



Judul Tugas Akhir : Performance Analysis of Microservice and Monolith Architecture in List Features Application Backend at PT Bank Negara Indonesia (Persero) Tbk.

Diajukan oleh : VINCENTIUS MAURENO Y. HUTABARAT

NIM : 18.K1.0014

Tanggal disetujui : 13 Januari 2023

Telah setuju oleh

Pembimbing : Yonathan Purbo Santosa S.Kom., M.Sc

Penguji 1 : Yonathan Purbo Santosa S.Kom., M.Sc

Penguji 2 : Hironimus Leong S.Kom., M.Kom.

Penguji 3 : R. Setiawan Aji Nugroho S.T., MCompIT., Ph.D

Penguji 4 : Rosita Herawati S.T., M.I.T.

Penguji 5 : Y.b. Dwi Setianto S.T., M.Cs.

Penguji 6 : Yulianto Tejo Putranto S.T., M.T.

Ketua Program Studi : Rosita Herawati S.T., M.I.T.

Dekan : Dr. Bernardinus Harnadi S.T., M.T.

Halaman ini merupakan halaman yang sah dan dapat diverifikasi melalui alamat di bawah ini.

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I, the undersigned:

Name : Vincentius Maureno Yubile Hutabarat

ID : 18.K1.0014

declare that this work, titled "Microservice Implementation in List Feature Application Backend at PT Bank Negara Indonesia (Persero) Tbk", and the work presented in it is my own. I confirm that:

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Vincentius Maureno Yubile Hutabarat

18.K1.0014

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Yang bertanda tangan dibawah ini:

Nama : Vincentius Maureno Yubile Hutabarat

Program Studi : Teknik Informatika

Fakultas : Ilmu Komputer

Jenis Karya : Skripsi

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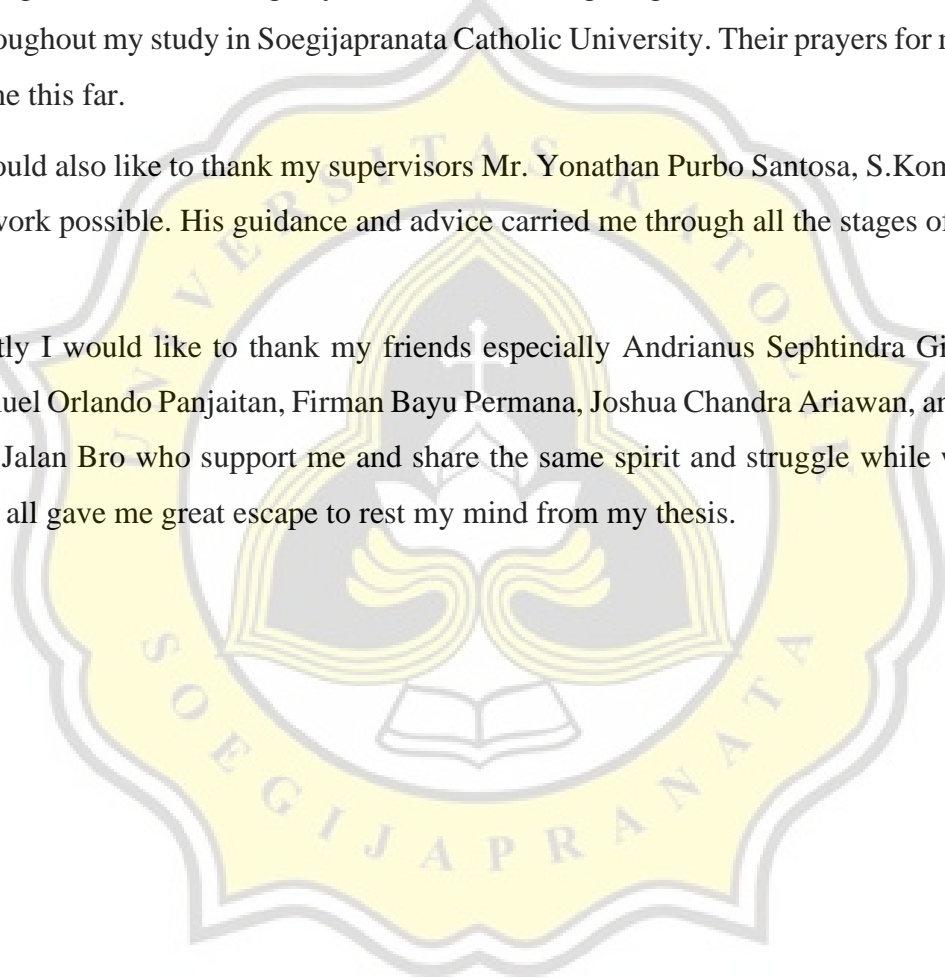
## ACKNOWLEDGMENT

I have received a myriad of support, advice, and assistance throughout this document writing. First of all I would like to thank God, for letting me through all the difficulties, giving me strength to finish my thesis.

I would like to give special thanks to my parents for their continuous support and understanding when undertaking my research and for giving me ceaseless love, support, and advices throughout my study in Soegijapranata Catholic University. Their prayers for me was what sustained me this far.

I would also like to thank my supervisors Mr. Yonathan Purbo Santosa, S.Kom, M.Sc who made this work possible. His guidance and advice carried me through all the stages of writing my project.

Lastly I would like to thank my friends especially Andrianus Sephtindra Gita Pramana, Danny Samuel Orlando Panjaitan, Firman Bayu Permana, Joshua Chandra Ariawan, and all friends from Jalan Jalan Bro who support me and share the same spirit and struggle while writing each thesis. You all gave me great escape to rest my mind from my thesis.



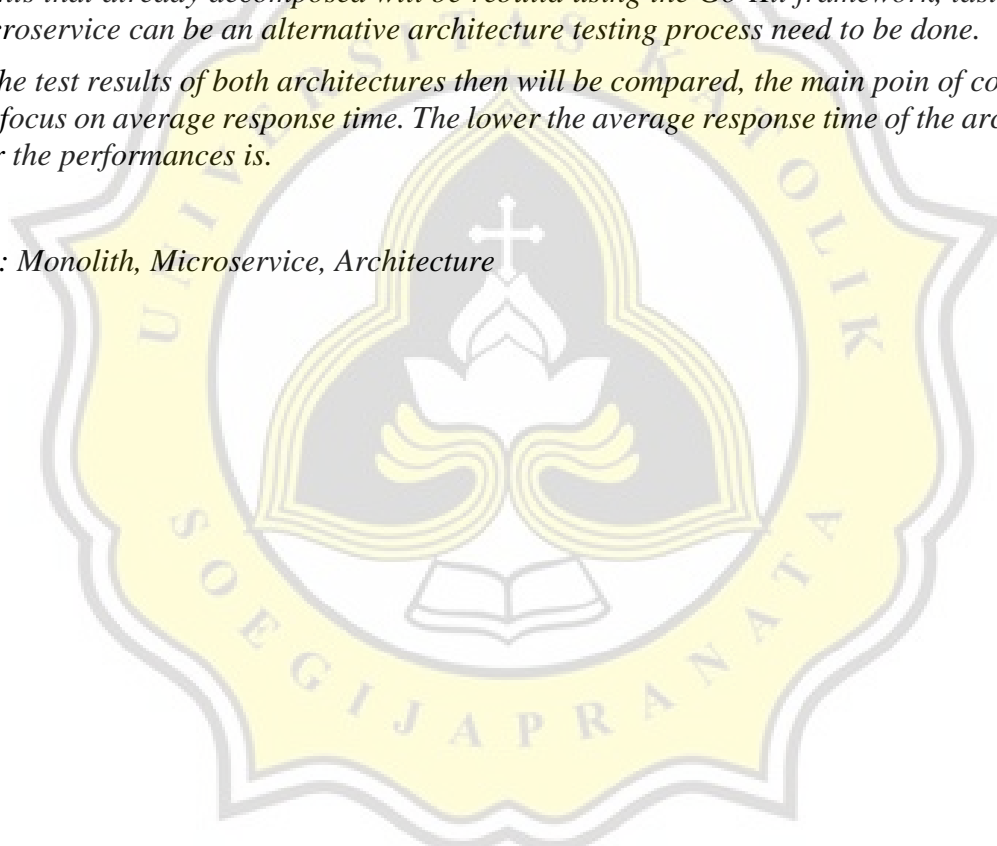
## ABSTRACT

*The monolith architecture is an architectural style that consists of different components, combined into a single program, that run as a single unit. The monolith architecture has some drawbacks when it becomes a bigger application, when an application with many features gathered in 1 service it will be more difficult to maintain and the development speed will slow down. In this project I tried to seek for an alternative architecture to List Features Application backend, that previously used the monolith architecture.*

*The alternative architecture that I choose for this project is microservice architecture, microservice architecture is a loosely coupled, small and independent architectural style that can be deployed independently and runs in its own unique process. To implement the microservice architecture from monolith architecture first the components need to be decomposed, second the components that already decomposed will be rebuild using the Go-Kit framework, lastly to know if the microservice can be an alternative architecture testing process need to be done.*

*The test results of both architectures then will be compared, the main poin of comparision will only focus on average response time. The lower the average response time of the architectures the better the performances is.*

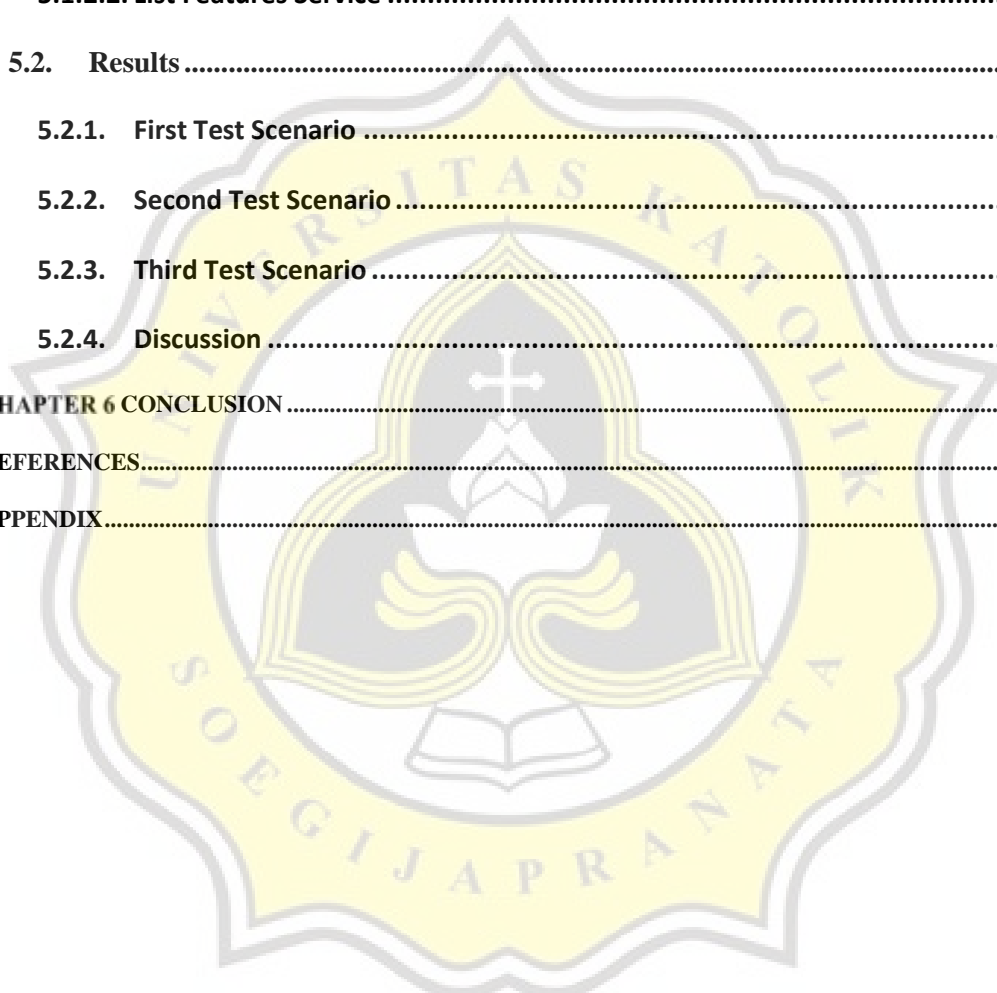
*Keyword: Monolith, Microservice, Architecture*



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