NODE.JS IMPLEMENTATION ON MENU RESERVATION SYSTEM IN RONALEE RESTO

Cage Study: RonaleResto Yogyakarta TA 2019/2020

UNDERGRADUATE THESIS

arranged by

Rosyid Abdurrahman

14.61.0019

UNDERGRADUATE PROGRAM
BACHELOR INFORMATICS STUDY PROGRAM
FACULTY of INFORMATIKA
UNIVERSITAS AMIKOM YOGYAKARTA
YOGYAKARTA
2019

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to meet some of the requirements
to achieve a Bachelor's degree
in Bachelor Informatics Study Program

arranged by

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on 24 July 2019

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STATEMENT

I, the undersigned, declare that this thesis is my own work (ORIGINAL), and the contents of this thesis have not been submitted by anyone else to obtain an academic degree at any higher education institution, and to the best of my knowledge works or opinions that have been written and / or published by others, except those in writing referred to in this text and mentioned in the bibliography.

Everything related to the manuscript and works that have been made is my personal responsibility.

Yogyakarta, 24 July 2019

Rosyid Abdurrahman
NIM. 14.61.0019

MOTTO

Kindness is a mark of faith, and whoever has not kindness has not faith.

(Muhammad SAW)

Four things support the world: the learning of the wise, the justice of the great, the prayers of the good, and the valor of the brave.

(Muhammad SAW)

None of you truly believes until he wishes for his brother what he wishes for himself.

(Muhammad SAW)

DEDICATION

BISMILLAHIRRAHMANIRRAHIIM

I present this thesis with gratitude to everyone who has helped me with this thesis:

1. Allah SubhanahuwaTa'ala who has provided opportunities and fortune so that the author can complete the study to completion.
2. For the family, Mr. Budi Priyanto, Mrs. DewiTriyaniAstuti and my brotherAbdanSyakuron who directly helped me to complete this thesis.
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5. Large family of 14BCIT01. Good luck to us all.

PROLOGUE

Assalamu'alaikumWr,Wb.

Praise for the favors that have been given by ALLAH SWT so that the author can complete the Thesis with the title "Node.js Implementation on the Reservation Menu System at RonaleeResto" well, although it is realized the writer's work there are still some shortcomings that can not be separated from the limitations of the author.

The purpose of writing this undergraduate thesis is to fulfill the requirements in taking undergraduate examinations in the Department of Informatics, Amikom University Yogyakarta

In writing this thesis, there are many obstacles and obstacles, but thanks to the determination, efforts of encouragement and assistance from various parties, finally the writer can finish this thesis. Therefore the author would like to thank:

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The author is aware that this thesis is far from perfect, there are still many shortcomings that need to be fixed. So the authors beg their willingness to provide constructive criticism and advice. Nevertheless the authors hope that this thesis can provide benefits for those who need references / references for further research.

Wassalamu'alaikumWr,Wb.

Yogyakarta, 26 July 2019

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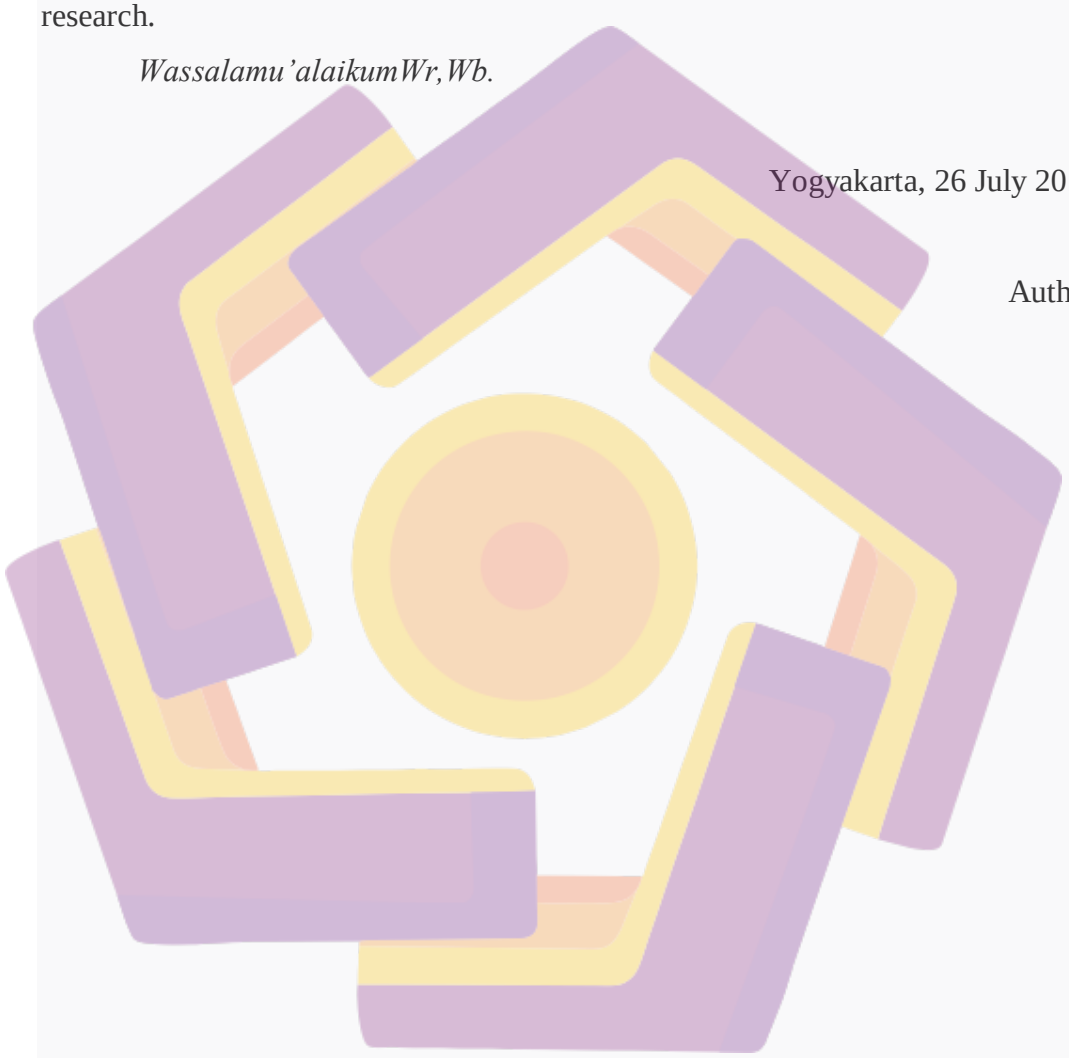

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ABSTRACT

Node.js is a JavaScript runtime built on Chrome's V8 JavaScript engine. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient. Node.js package ecosystem, npm, is the largest ecosystem of open source libraries in the world. What makes node.js superior to php one of them is the non-blocking I/O model implemented by node.js, this means the user request can be asynchronous, which means that everything associated with I/O will not hinder the running of the system because all I/O request such as requesting data from the server will be answered to the callback queue that will run in sequence after all the systems are done running. This will speed up the whole system.

In this thesis the author will try to analyze the main problems that exist and try to fix the problems faced by previous system users by changing the system programming language to Node.js and adding Socket.Io to the system

The resulting application will be in the form of web-based which will only be used by the admin and employees of RonaleeResto which aims to fix deficiencies that exist in the previous system. So as to be able to record orders more accurately and without the risk of losing data.

Keywords :*Node.js, Socket.io, Menu Reservation System, RonaleeResturant.*