

DESIGN AND APPLICATION
OF PUBLIC TRANSPORTATION INFORMATION SYSTEM
IN BOYOLALI, SURAKARTA AND SUKOHARJO



FINAL PROJECT REPORT

Submitted as a partial Fulfillment of the requirements for Getting

The Bachelor Degree of Computer Science

In Department of Informatics, Faculty of Communications and Informatics

Muhammadiyah University of Surakarta

By :

JOKO TRIYANTO

NIM : L200102010

DEPARTMENT OF INFORMATICS
FACULTY OF COMMUNICATIONS AND INFORMATICS
MUHAMMADIYAH UNIVERSITY OF SURAKARTA

2014

Created with

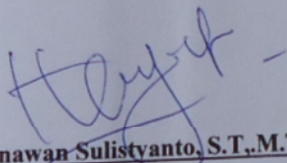
APPROVAL

DESIGN AND APPLICATION
OF PUBLIC TRANSPORTATION INFORMATION SYSTEM
IN BOYOLALI, SURAKARTA AND SUKOHARJO

It has been inspected, approved and passed in:

Today : Monday
Date : 16 June 2014

Advisor 1


(Hernawan Sulistyanto, S.T.,M.T)

NIK : 882

ACCEPTANCE

DESIGN AND APPLICATION OF PUBLIC TRANSPORTATION
INFORMATION SYSTEM
IN BOYOLALI, SURAKARTA AND SUKOHARJO

prepared and compiled by

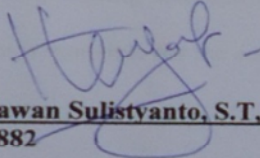
JOKO TRIYANTO

NIM : L200102010

It has been defended in front of examiners team and approved as a partial fulfillment of the requirements for getting the Bachelor Degree on

Team of Examiners

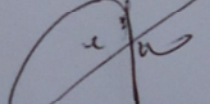
Advisor 1



(Hernawan Sulistyanto, S.T.,M.T)

NIK : 882

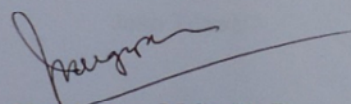
Examiners 1



Drs. Sudjalwo, M.Kom.

NIK : 404

Examiners 2



Nurgiyatna, M.Sc.,Ph.D

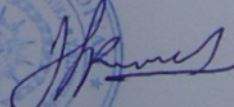
NIK :

This final project report has been accepted as one of the requirements for getting a bachelor degree

Dean of the
Faculty of Communications and
Informatics


Husni Thamrin, S.T, MT., Ph.D.
NIK : 706

Head of
Department of Informatics


Dr. Heru Supriyono, M.Sc.
NIK : 970

MOTTO

” Changing The first Ordinary Becomes Extraordinary And Remarkable Change
Becomes Useful for others”(author)

CONTRIBUTIONS LIST

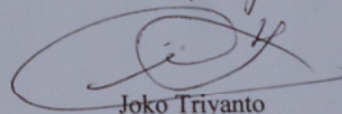
I hereby declare that this thesis work there that have been asked to obtain a degree at a university and to my knowledge there is also no work or opinion ever written or published by another person except in writing referred to in this manuscript and mentioned in bibliography:

Here I have to list the contribution in the preparation of the thesis::

1. I design and application of Public Transportation information system in Boyolali, Surakarta and Sukoharjo.
2. Creation of web-based applications the help of books, the internet, and sharing with friends who know about the web.

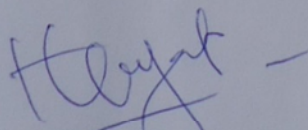
I am responsible for the content and correctness above the list.

Surakarta16..... June 2019



Joko Triyanto

Advisor I



(Hernawan Sulistyanto, S.T.,M.T)

NIK : 882

DEDICATION

1. Allah SWT, who always hears the prayers of his people.
2. Both my parents who have always loved me from childhood to now without asking for replies.
3. Brother and sister who have always given me the spirit.
4. To all friends - friends who have made life more meaningful.
5. To a friend - a friend of Informatics particular class of 2010 that can not be mentioned one by one, thank you for sharing your knowledge and experience during this.
6. All parties are willing to assist in the preparation of the thesis to be completed as expected



INTRODUCTION

Praise turning to the presence of the author Allah SWT, who has bestowed His Taufik and guidance, thus thesis with the title “Design and application information Public Transportation system in Boyolali, Surakarta and Sukoharjo Web Based” can be resolved. This thesis can be completed with the assistance of various parties. therefore at this moment I wish to express my thanks and appreciation to:

1. Mr. Husni Thamrin, MT., Ph.D. as Dean of the Faculty of Communications and Informatics who have served and provide facilities for the smooth study.
2. Mr. Heru Supriyono, M.Sc.Ph.D as the head of Department of Informatics
3. Mr. Hernawan Sulisty, ST, MT, as a Supervisor who has been providing advice, guidance, encouragement, and guidance to the author so as to finish this thesis.
4. All the examiners at the seminar proposals and pre pendadaran who have provided advice and input in the preparation of this thesis.
5. All lecturers on the subjects of Information Engineering Program which has provided supplies a very useful knowledge for the writer.
6. All the staff / employees on study program Informatics techniques that have served and provide facilities for the smooth study.
7. Friends Informatics particular class of 2010 who have provided support in the completion of this thesis.



Hopefully, Allah SWT reward corresponding to the favor they have given. Authors hope this paper can be useful for the development of the author's own and further research and education.

Surakarta,

Joko Triyanto



TABLE OF CONTENTS

| | |
|--|------|
| Title page | i |
| Approval page | ii |
| page Endorsement | iii |
| List of Contributions | iv |
| Motto..... | v |
| Tribute page..... | vi |
| Foreword | viii |
| Table of contents | ix |
| List of Tables..... | xi |
| List of Figures | xii |
| abstraction | xiv |
| CHAPTER I INTRODUCTION | 1 |
| 1.1 Background | 1 |
| 1.2 Problem Formulation..... | 2 |
| 1.3 Limitations | 2 |
| 1.4 Research Objectives | 3 |
| 1.5 Benefits of Research..... | 3 |
| 1.6 Systematics Writing | 4 |
| CHAPTER II LITERATURE REVIEW | 6 |
| 2.1 The research study..... | 6 |
| 2.2 Basis Theory..... | 6 |
| CHAPTER III ANALISYS AND DESIGN | 13 |
| 3.1 Location and time research | 13 |
| 3.2 Job Discription Syetem | 13 |
| 3.3 System Requirements Analisys | 14 |
| 3.3.1 Hadware requirement analysis | 16 |
| 3.3.2 Analysis Software needs | 17 |

| | | |
|---|--|-----------|
| 3.3.3 | Admin..... | 19 |
| 3.3.4 | Visitors | 20 |
| 3.4 | Input and output intendent..... | 20 |
| 3.5. | Design System | 21 |
| 3.6 | Sytem Design Use Case | 23 |
| 3.7 | Activity Diagram..... | 27 |
| 3.8 | Structur File..... | 29 |
| 3.9 | Design Interface | 31 |
| CHAPTER IV RESULTS AND DISCUSSION..... | | 35 |
| 4.1 | Results | 35 |
| 4.2 | Structures and Program Design | 35 |
| 4.2.1 | User Page..... | 35 |
| 4.2.2 | Home Administrator..... | 39 |
| 4.3 | Analysis and Discussion..... | 43 |
| 4.3.1 | Exces | 43 |
| 4.3.2 | Disadvantages..... | 43 |
| 4.4 | Conclusions Results and Discussion | 45 |
| 4.4.1 | Admin..... | 45 |
| 4.4.2 | User | 45 |
| CHAPTER V CLOSING | | 49 |
| 5.1 | Conclusion..... | 49 |
| 5.2 | Advice | 50 |
| DAFTAR PUSTAKA | | 51 |
| LAMPIRAN | | |

LIST OF TABLES

| | |
|--|----|
| Table 3.1 Specifications Client Computer | 16 |
| Table 3.2 Computer Server Specifications..... | 17 |
| Table 3.3 Input Admin | 25 |
| Table 3.4 Input Menu Content | 26 |
| Table 3.5 Input article | 26 |
| Table 3.6 Input title | 27 |
| Table 3.7 event coment | 30 |
| Table 3.8 User | 30 |
| Table 4.1 Obtained are described..... | 47 |



LIST OF FIGURES

| | |
|--|----|
| Figure 1.1 Flowchart or Research | 10 |
| Figure 1.2 Diagram search techniques | 11 |
| Figure 1.3 DFD level 0..... | 11 |
| Figure 1.4 DFD Level 1 | 12 |
| Figure 3.1 Overview of work system..... | 14 |
| Figure 3.2 Menu Diagram of Information System..... | 22 |
| Figure 3.3 Map of the web frontend..... | 23 |
| Figure 3.4 Admin Activites..... | 28 |
| Figure 3.5 User activities | 29 |
| Figure 3.6 Structure menu..... | 31 |
| Figure 3.7 Admin pages Design..... | 32 |
| Figure 3.8 Visitors Home | 33 |
| Figure 3.9 page colection | 33 |
| Figure 3.10 Public Transportations page Surakarta | 34 |
| Figure 3.11 Public Transportations page Sukoharjo | 34 |
| Figure 4.1 Visitors Home..... | 36 |
| Figure 4.2 page and the number of lines | 37 |
| Figure 4.3 rates page | 38 |
| Figure 4.4 Public page type, number and transit lines Surakarta..... | 39 |
| Figure 4.5 Freight rates page in Surakarta | 40 |

| | |
|--|----|
| Figure 4.6 Transportation page in Sukoharjo | 40 |
| Figure 4.7 Administration login page | 41 |
| Figure 4.8 Menu home page Profile management | 42 |
| Figure 4.9 management transportation page | 42 |
| Figure 4.10 Management pages all post..... | 43 |
| Figure 4.11 management category page..... | 43 |
| Figure 4.12 management Areas page | 44 |
| Figure 4.13 User page manager..... | 44 |
| Figure 4.14 Graph of the results of questionnaires | 48 |



Attachment

1. Index.php
2. Sidebar.php
3. Link.PHP

ABSTRACT

Information systems become critical points in the business process of a company or agency. In the development of web-based information systems are very widely used, almost all agencies have web-based information systems. This is because web-based information system is more flexible and offers ease of access. Public transport information systems in Boyolali, Surakarta and Sukoharjo Implementansi is one example of a web-based information systems. Basically information system is built to allow the government to manage the data transport.

This information system is built using PHP and MySQL database, in the manufacturing process through several stages such as: stages of analysis, design phase, implementation phase, the stages of testing and evaluation phases in accordance with SDLC procedures. Functions and benefits of public transportation information system in Boyolali, Surakarta and Skoharjo serves to provide information about public transportation in the form of lines, numbers, rates and other information to the general public who access the system information. This information system can be accessed anytime and anywhere over the network connected to the Internet.

Keywords: Information systems, Transport, PHP, Web