

DESIGN AND APLICATION
OF PUBLIC TRANSPORTATION INFORMATION SYSTEM
IN BOYOLALI, SURAKARTA AND SUKOHARJO
PUBLICATION ARTICLE



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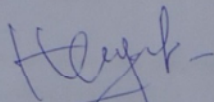
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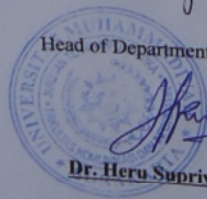
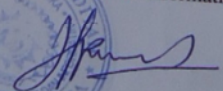


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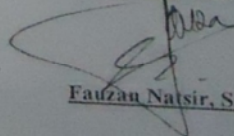
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DESIGN AND APPLICATION
OF PUBLIC TRANSPORTATION INFORMATION SYSTEM
IN BOYOLALI, SURAKARTA AND SUKOHARJO

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ABSTRACT

Information system 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 system. This is because web-based information system is more flexible and offers ease of access. Public transport information system in Boyolali, Surakarta and Sukoharjo Implementasi 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 : stage of analisis, design phase, implementation phase, the stages of testing an evaluation phases in accordance with SDLC procedures. Functions and benefits of public transportation information system in Boyolali, Surakarta and Sukoharjo 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 system, Transport, PHP, Web

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INTRODUCTION

Boyolali, Surakarta and Sukoharjo are 3 districts/ cities in Central Java. The districts/ cities in some activity, the increase in activity is a consequence of the increased movement of people and goods. Therefore it is necessary to public transport as a tool to support the movement. Public transport in 3 districts/ cities include Bus, Taxi Route and others. Buses are available at each district/ cities with many different paths.

The transportation facility each originil society and migrants certainly when the main public transport bus in Boyolali, Surakarta and Sukoharjo. But there are still many who do not know the public transport facilities because of lack of information. This information is only limited to the mouth during the

mouth and the media are quite difficult to be reached by the public. So the facilities are less than the maximum available in the utilization by the general public.

The Development of information technology is so rapid must be in use, so that the existing public transport facilities in the district Boyolali, Surakarta and Sukoharjo can be accessed from anywhere, so that the communities and migrants are not widespread confusion in finding information and can utilize the existng transport maximum 3 districts/ cities. Based on this background, the researchers raised the heading “ Design and Appliction of public Transportation Information System in Boyolali, Surakarta and Sukoharjo”.

LITERATURE REVIEW

In this study, we will use the web as a medium for conveying information. The expected result is a schedule information system, line and rates web based. Benefit of this research is to make it easy for customers to obtain information with natural language based search model.

RESEARCH METHOD

a. Code and FIX Diagram

In creating this application, writer uses code and fix Development Life Cycle Models. Generally, Code and Fix Development Life Cycle Models can be described in a phase in Figure

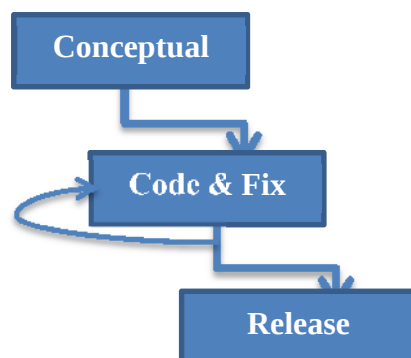


Figure 1 Fix Models Diagram

Code and Fix Methode Contains

some step to complete the life cycle, which are conceptua, code and fix, and release. In conceptual step, the writer collects the data and designs the general layout. After designing the application, then the writer goes to code the program. If the application has been fixed, then application wil be release.

Furthermore, if the application has not been fixed, then the writer will back to code and fixed the program.

In this research, writer expands code and fix Development Life Cycle

Models and the activities are shown in flowchart in Figure 2.

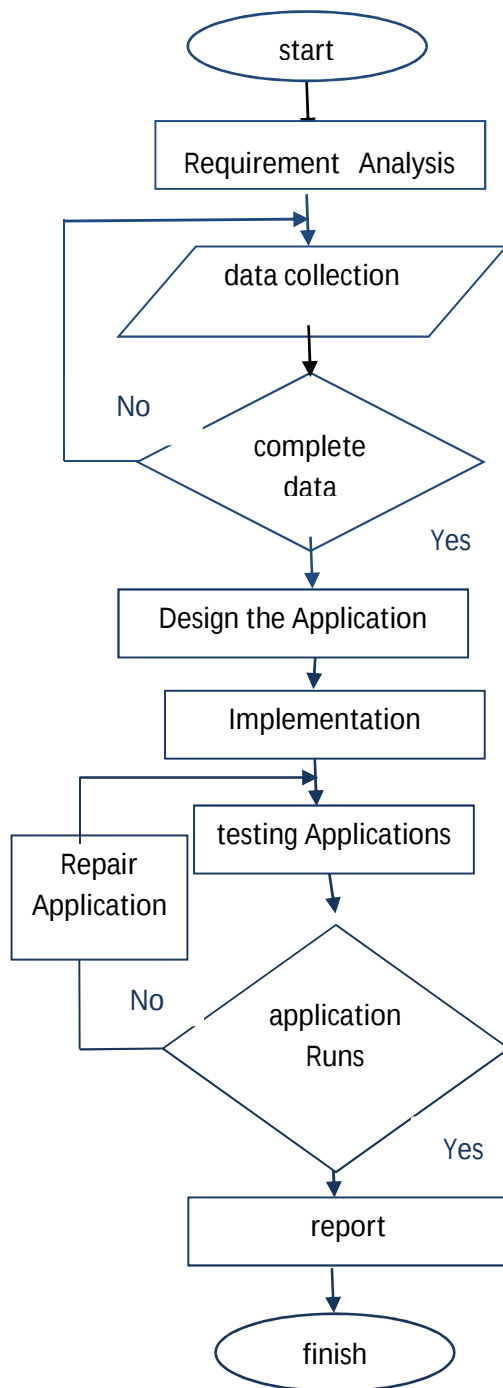


Figure 2. Flowchart of Research

RESULTS AND DISCUSSION

Public Transport Information System in Boyolali, Surakarta and Sukoharjo web based Programming is built by using PHP and HTML. As for using a MySQL database processing. Making public Transport Information System in Boyolali, Surakarta and Sukoharjo started with a Web based requirements analysis. Both need hardware and software requirements and proceed to the design stage which includes system design, use case design, and designing. In the next stage which is the stage of testing the system information, other than followed by the stage of implementation and continued maintenance.

The division on this page includes some other parts of the header, sidebar menu, content, and footer as well as some additional variations menus to make it look

attractive. The header contains information about the name of the application, the sidebar menu contains menu options and facilities used. The content contains data from a selected menu or the result of a process that is done the user or system. Footer is at the bottom.

Structures and Program Design

The structure and design of the website public transportation in Boyolali, Surakarta and Sukoharjo are as follows :

1. Visitors Home

This page is the main page that appears when the website is opened :



Figure 3 Visitors Home

In the header there is a title with the words running “Transportasi Umum Soloraya (Boyolali, Surakarta, Sukoharjo) and three images Terminal Boyolali, Surakarta and Sukoharjo. The bacground and sidebar are green and yellow content.

Public Transport info page in Boyolali

- a. The page to open the page line route and the number of rural transport and AKDP Boyolali.



Figure 4 page type, number and transit lines Boyolali

On the menu there are menu sidebar of Boyolali, Surakarta and Sukoharjo. While, one the menu there is sub menu, it includes sub menu on line and number, and rate. To view the track information and the number of rural transportation and AKDP click track and the number of sub menus on the menu Boyolali in colom sidebar or write a keyword in the search colom.

- b. To open the rates page upper limit and lower limit public passenger transport by car economy class public bus route AKDP



Figure 5 rates page

On the menu there are menu sidebar of Boyolali, Surakarta and Sukoharjo. While, one the menu there is sub menu, it includes sub menu on line and number, and rate. To view freight rates upper limit and lower limit on the sub menu click rates Boyolali in colom sidebare menu or write a keyword in the search colom.

Public Transport Information page in Surakarta

- a. To open the page type and the number of transit lines Surakarta



Figure 6 page type, number and transit lines Surakarta

On the menu there are menu sidebare of Boyolali, Surakarta and Sukoharjo. While, one the menu there is sub menu, it includes sub menu on line and number, and rate. To view the information type, and number of lanses and transit lanes AKDP sub menu and click on the number in colom Surakarta sidebar menu or write a keyword in the search colom.

b. To open the page and

Transportation rates

Transportation Border City with a Public Bus Car Economy Class Surakarta

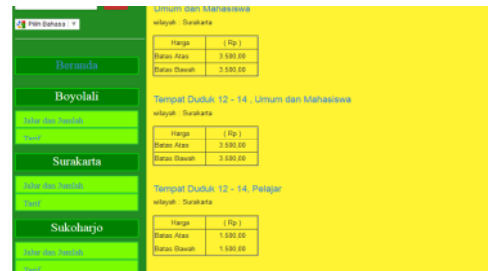


Figure 7 Freight rates page in Surakarta

On the menu there are menu sidebar of Boyolali, Surakarta and Sukoharjo. While, on the menu there is sub menu, it includes sub menu on line and number, and rate. To view freight rates upper limit and lower limit on the sub menu click rates Surakarta in colom sidebar menu, or write a keyword in the search colom.

Public Transport Information page in Sukoharjo



Figure 8 Transportation Page in Sukoharjo

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On the menu there are menu sidebar of Boyolali, Surakarta and Sukoharjo. While, on the menu there is sub menu, it includes sub menu on line and number, and rate. To view the information type, and number of lanes and transit lanes AKDP sub menu and click on the number in colom Sukoharjo sidebar menu, or write a keyword in the search colom.

Home Administrator

a. Administrator login page

Login

Username

Password

Login

Figure 9 Administrator login page

The administrator login page is the first page that appeared to enter the administrator page. Enter your username and password to login and

set up the web.

b. Menu Home Profile

On the profile page management menu, there are the management of the post, all post, category, Comment, Territory, users logout.

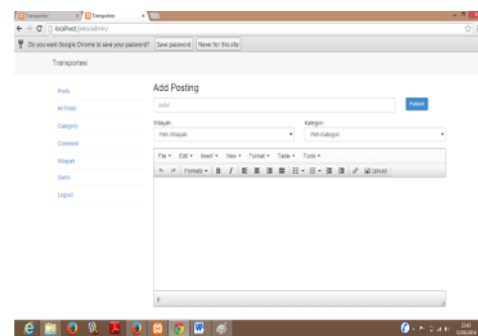


Figure 10 Menu Home page Profile Management

On the profile page management menu, there are the management of post, all post, category Comment, Regional, users logout. To post an article writing the title, Select area, select a category, write articles and publish entry page for update article.

c. Menu Management Page

Public transportation Boyolali, Surakarta, and Sukoharjo. On the

The screenshot displays the Joomla! administrator interface for adding a new post. On the left, a sidebar contains navigation links: 'Posts', 'All Posts', 'Category', 'Comment', 'Wishlist', 'Users', and 'Logout'. The main content area is titled 'Add Posting' and features a 'Title' text input field, a 'Category' dropdown menu, and a blue 'Publish' button. Below the form, a toolbar with icons for editing, inserting, viewing, formatting, and tables is visible, followed by a row of icons for various content management functions and an 'Upload' button.

d. Management menu Page All Post on the menu page
Management activities, the admin can add, edit or remove all post which will be displayed on the website.

Kedinas (chodriks/pengal-2022)				
Transparansi				
Raih	#	Uraian	Kategori	Akhir
All India	1	Tertinggi dari 100 Indeks Berbasis Indikator yang dirancang dengan model Basu untuk Indeks Inovasi (IGSI) AICP	Bayan, Terf	2018-2019
Category	2	Jenis-jenis dan jumlah kategori	Suara, Jarak dan	2018-2019
Content	3	Tertinggi dari 100 Indeks Berbasis Indikator yang dirancang dengan model Basu untuk Indeks Berbasis Indikator (IGSI) AICP	Suara, Terf	2018-2019
Website	4	Tertinggi dari 100 Indeks Berbasis Indikator yang dirancang dengan model Basu untuk Indeks Berbasis Indikator (IGSI) AICP	Suara, Terf	2018-2019
Jenis	5	Tertinggi dari 100 Indeks Berbasis Indikator yang dirancang dengan model Basu untuk Indeks Berbasis Indikator (IGSI) AICP	Suara, Terf	2018-2019
Legal	6	Jenis-jenis dan jumlah kategori	Suara, Jarak dan	2018-2019
	7	Jenis-jenis dan jumlah kategori	Bayan, Jarak dan	2018-2019

On the menu page of category management, admin can add, edit

f. Menu Management Areas Page

g. Menu Page Management User
Manager

On the menu management user manager page admin can add, edit

and delete user data that will be given permissions to manage a website

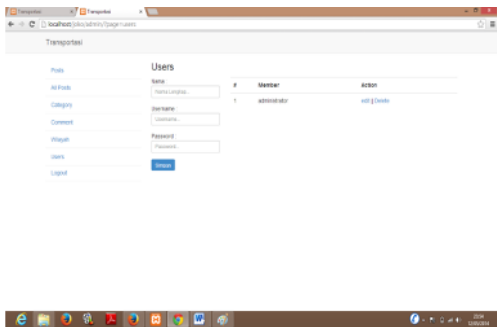


Figure 15 User Management Page Manager

Conclusions Results and

Discussion

Admin

From the experimental results of public transportation information system in Boyolali, Surakarta and Sukoharjo Web Based obtained the following conclusions:

- a. Systems represent the majority of public transportation information system needs
- b. Inputting the data are in accordance with the needs of the transportation system in Boyolali, Surakarta and Sukoharjo.
- c. Still no shortage output can not display video.

User/ Visitor

From the experimental results of public transportation information system in Boyolali, Surakarta and Sukoharjo web based be conclude as follows:

- a. Websites Already represent the majority of public transport information in Boyolali, Surakarta and Sukoharjo.
- b. Axperienced in running a website is not a constraint, the program runs fine.
- c. No guest book to interact with the user.
- d. Output is in conformity with the needs of society.

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