

Nyapek Application for Culinary Travelers in Bogor City Based on Android

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Abstract: Android is one of the famous mobile operating system created by Google company. Advantages of the android operating system itself is to provide an open platform (open source) for developers to create their own millions of applications that will be used for a wide range of mobile devices (mobile devices). Needs of information technology is developing rapidly. Mobile even more Smartphone is one of the means used to obtain information more quickly and accurately, as well as being tools needed in various fields. Especially when you're enjoying a holiday somewhere and need information right away, of course it was very helpful in finding such information. While on vacation in a place we definitely want to taste the culinary place and it has become a lifestyle in today. That's what we call the culinary tour. Culinary tourism itself is an action done a lot of people in the field of dietary needs, for entertainment. Based on application compatibility testing Nyapek culinary tourism in the city of Bogor based on Android can run optimally and display interface on the phone with Minimal OS v5.0 (Lollipop) with a 5-inch screen.

Index Terms: Android, information technology, Nyapek culinary

I. INTRODUCTION

In this globalization era of information technology needs is growing rapidly. Mobile even more Smartphone is one of the means used to obtain information more quickly and accurately, as well as being tools needed in various fields. Especially when you're enjoying a holiday somewhere and need information right away, of course it was very helpful in finding such information.

While on vacation in a place we definitely want to taste the culinary place and it has become a lifestyle in today. That's what we call the culinary tour. Culinary tourism itself is an action done a lot of people in the field of dietary needs, for entertainment. The sensation of the tongue can not be deceived by taste delicious and tasty. The willingness of the tongue is different from the desire for hunger. If hunger can be met with a common food of rice and vegetables and a side dish. But the sensation is inclusive style or lifestyle costs and prices are expensive. Often and more people are looking to eat typical only for activities fulfill his tongue sensation.

For those who have a hobby of sightseeing and eating well suited to perform this activity. If you are fond of eating, you definitely will try to taste new foods. Either the food taste

more delicious, innovative food was so new, taste a new taste on the tongue, or eat while enjoying the city view from the restaurant visited, can be a pleasure.

II. TOOLS AND MATERIALS

A. Research Tools

The tools used in this study consist of hardware (hardware) and software (software).

In making this application the hardware used is a set of computers with the following specifications:

- Intel i5
- 4 GB RAM Memory
- 500 GB hard drive
- Smartphone with Android operating system

Software requirements for creating this application include the following:

- Windows Operating System 10
- Microsoft Office 2013
- *Android Studio*
- *Adobe Photoshop CS6*
- *Paint*

B. Materials Research

Materials needed in this study are culinary tour data in the city of Bogor. Other research materials were obtained based on field surveys and sources related to the design of the applications to be made.

III. RESEARCH METHODS

The research method applied to the manufacture of the search application culinary tourist sites in the city of Bogor is the method of SDLC (System Development Live Cycle). SDLC approach consists of six phases: Planning, Analysis, Design, Implementation, and Testing.

A. Planning phase

In the planning stage is done the observation process. Process observation is theoretically the data collection of books – books and other sources such as search through the internet. Search of some of these sources aims to facilitate the making of an application system.

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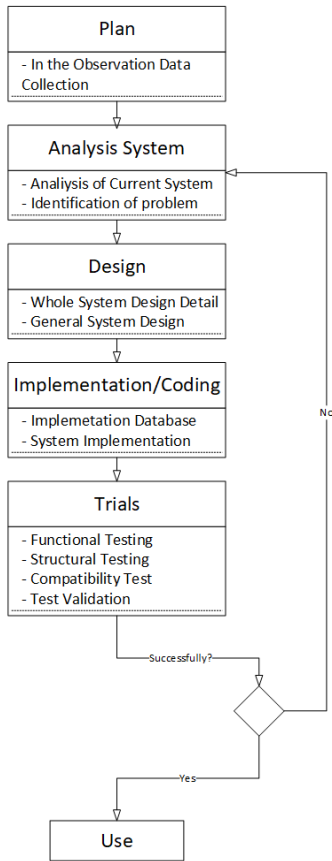


Fig. 1 SDLC Systems Approach

B. Phase Analysis

The flowchart system is running can be seen in Fig. 2.

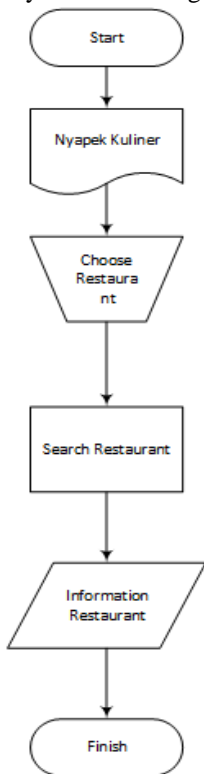


Fig. 2. Flowchart system walk

C. Stage Design

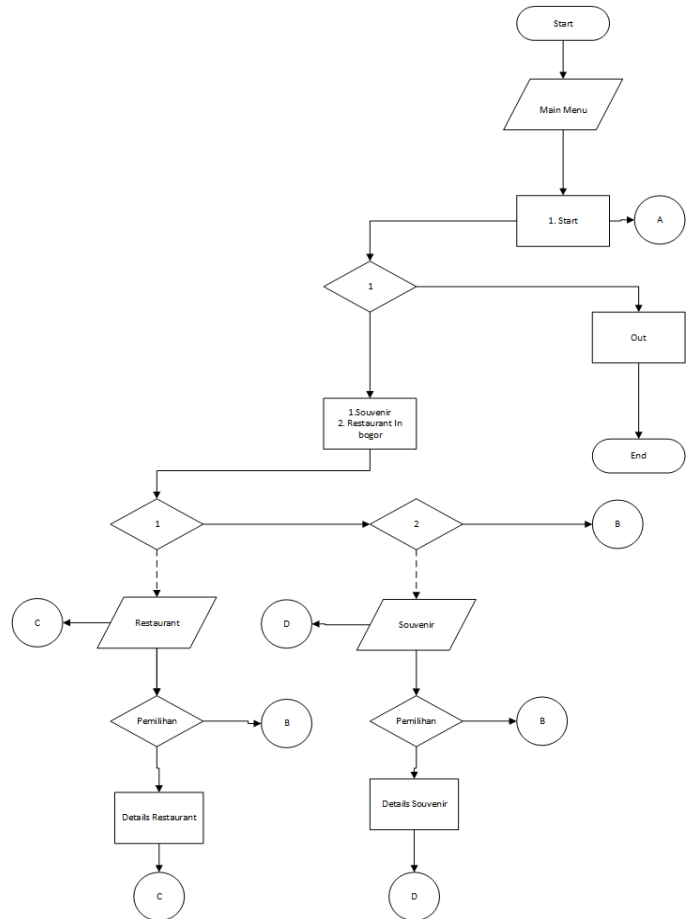


Fig. 3. Flowchart system General

At this stage include designing flowchart system as an illustration application that is user friendly for the user. The following flowchart design system image that can be seen in Figure 3.

D. Implementation phase

At this stage of manufacture Culinary Android- Based Applications.

The implementation of these applications use the software Android Studio and SQLite for database design that runs on Windows 7 OS.

The test phase is done with 3 stages:

1. Structural Testing
The trial was conducted to determine whether the structure or flow of the program are made in conformity with the planning.
2. Functional Testing
The test is conducted to determine whether the program created is functioning properly.
3. Test Validation
The test is conducted to determine whether the program created is working correctly.
4. Testing Compatibility
Compatibility trials conducted to test whether the running application is compatible or not.



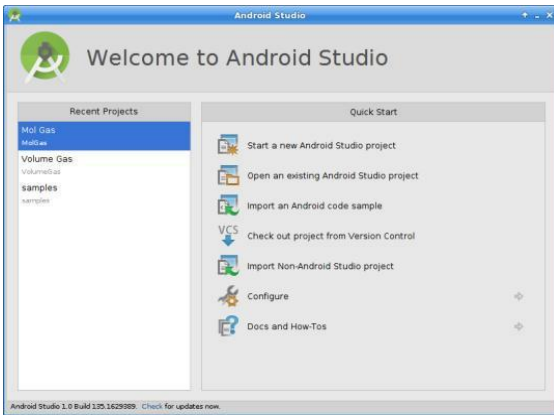


Fig. 4 Android Studio

E. Phase Usage

Use stage is the stage where when the system has been created then have passed the trial stage and then the system can already be in use.

IV. RESULTS AND DISCUSSION

Here is the result or display along with a description of the system are made.

A. Main Menu Page

The main page is an early look at the time of application Nyapek opened. On the main page there are, Welcome to the Bogor nyapek When the user selects the start menu, the user is to the intended page. Here the main page that can be seen in Fig. 5.



Fig. 5 Display Page Menu Main

B. Page Select Start

Select a start page is the main page of the second, because at this page the user will be able to choose what will be seen. Here are the two main page that can be seen in Fig. 6.

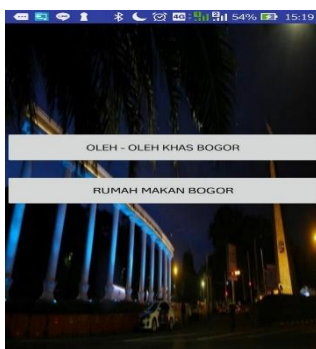


Fig. 6. Display Page Select

In Fig. 6 there are two menu options, namely Souvenir Typical Bogor and The Restaurant is Bogor

C. Souvenirs Typical Bogor

Page Souvenirs a page that displays all souvenirs in the database. Here pageviews souvenirs that can be seen in Fig. 7.



Fig.7 Page Souvenirs

D. The Restaurant in Bogor

Page Restaurant a page that displays all the eating places that exist in the database. Here's what a meal home page that can be seen in Figure 8.



Fig. 8 Pageviews Restaurant

E. Weather Details

On this page frequent users can find the culinary details that have been or are looking for on the previous page. Here's a detail page views that can be seen in Fig. 9.



Fig. 9. Detail Page Views

F. Stuktural Testing

Structural trial is a trial to determine whether the structure or workflow systems made in conformity with what was designed. The trial results are structural system can be seen in Table 1.

Table 1 Test Structural

Number	Test	Results
1	Main Menu → Restaurant → Restaurant Location → Selection → Details	Correct
2	Main Menu → Souvenir → Selection → Details	Correct

G. Functional Testing

Furthermore, the functional test, functional test is performed to determine whether the already functioning systems made with baik. Pada this stage trial to determine whether the function of each button or menu on the page can function properly. The test result is a functional system can be seen in Table 2.

Table 2. Function Test

Number	Menu Button	Functional	Result
1	Stard	Displaying The Second Menu Restaurant And Souvenir	Correct
2	Restaurant	Showing List View Restaurant	Correct
3	Souvenir	Showing List View Menu	Correct

H. Test validation

Validation trials are tests conducted to determine whether the application is made already be in place or not.

Table 3. Test Validation

Number	Test	Result
1	Main Menu → Restaurant → Restaurant Location → Selection → Details	Correct
2	Main Menu → Souvenir → Selection → Details	Correct

I. Testing Compatibility

The test compatibility test is performed to determine the compatibility of the application of the android devices that possess several different types. This distribution stages can be done by transferring files culbo.apk contained in the / bin directory in folders applications created using a data cable. In addition to using the data cable, file culbo.apk can also be sent using Bluetooth.

Tabel 4 Test Comability

Number	Menu Button	Functional	Result
1	Selected Start Button	Featured Selection Button Restaurant And Souvenir	Correct
2	Selected Restaurant Button	Showing Restaurant In The Area Bogor	Correct
3	Selected Souvenir	Featuring Typical Souvenirs Bogor	Correct

File nyapek.apk directly installed on the mobile phone easily and can be directly used. Here are the results of compatibility test conducted by Mobile Asus Zenfone 2 with 5.5 inc screen specs, Android OS v5.0 Lollipop

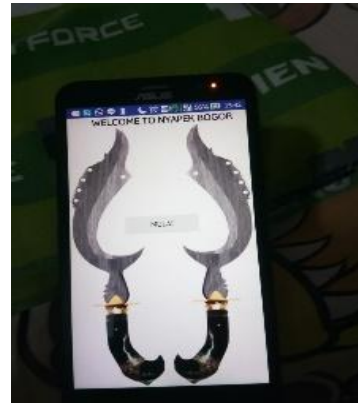


Fig.10 Main Menu Display.

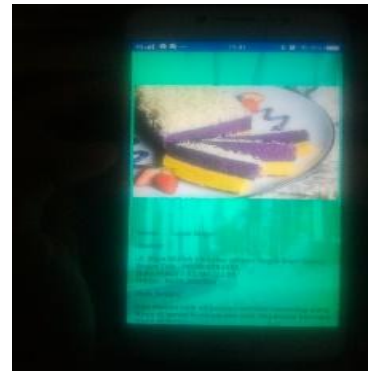


Fig. 11. Detail Page Views.

V. CONCLUSION

This culinary Nyapek application using SQLite database and data contained a total of 112 data such as pictures and text, and the data have been ordered from the letter A to Z. In making Nyapek applications using multiple software such as Android Studio, Adobe Photoshop and Java programming language. In this application search autocomplete equipped with adapters. Adapter autocomplete function to display data based on the selection of the input word.

On the search page, users can input the culinary name in the search field.

The results of the analysis of the implementation process Culinary Travel application on Android-Based Bogor City all three types of mobile phones with different specifications can be concluded that the specification mobile phones that can display an optimal interface are: mobile phone with a 5 inch screen with a minimal OS v5.0 (Lollipop).

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