

# **Information Location Of Elementary School With Certified Teachers At Lampung Province Based On Android**

**Septilia Arfida<sup>1</sup>, Amnah<sup>2</sup>, Hariyanto Wibowo<sup>3</sup>**

Institut Informatika dan Bisnis Darmajaya<sup>1,2,3</sup>

.septilia@darmajaya.ac.id<sup>1</sup>, amnahsaja@gmail.com<sup>2</sup>, hariwib\_78@yahoo.com<sup>3</sup>

## **ABSTRACT**

The development of information technology is currently going very fast. Information at any time can be accessed quickly and accurately becomes very important. One device that can access information quickly is an Android smart phone. Specific information in education for elementary school is a manifestation of teacher quality in improving national education in Indonesia. So the information in the world of education is a vehicle to actualize all the potential that exists. One of the information needed is to know the location of public elementary school that have certified teacher in Lampung Province. Information based Android is a picture of the location of public elementary schools that have certified teachers. This Android Based Application is expected to provide information on the location of public elementary schools on the data collection of teachers who have been certified in Lampung Province. So that can be monitored and known by the Education Office of Bandar Lampung, but it also provides information to other parties in need it.

**Keywords: Location of public Elementary School, Certified Teacher, Android**

## **1. Introduction.**

The development of information technology is currently going very fast. Information technology is not just limited to computer technology (hardware or software) used to process and store information but also includes communication technology to transmit information [1]. Information is data that has been processed into a meaningful form for the recipient and useful in decision making current or future [2]. Specific information in the world of education that at any time can be accessed quickly and accurately becomes very important. One device that can access information quickly is an Android smart phone. Android is an operating system on a smart phone that is very popular because it is open source which becomes a magnet for developers to develop application [3]. Specific information in the world of education for elementary school level, occupies a very important role. Where elementary school level education is the basis for the implementation of teacher quality in improving national education in Indonesia. So the information in the world of education is a vehicle to actualize all the potential that exists. One of the information needed is to know the location of public elementary

schools that have certified teachers in Lampung Province. Information based on Android is a picture of the location of public elementary schools that have certified teachers. Android based applications are expected to provide information on the location of public elementary schools on data collection of teachers who have been certified in Lampung Province. So that can be monitored and known by the Education Office of Bandar Lampung, but it also provides information to other parties in need it.

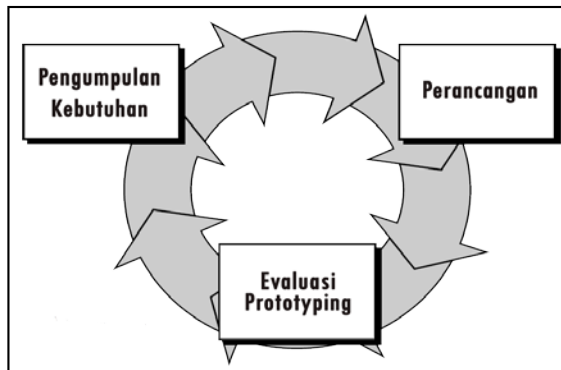
## **2. Research Method.**

Data collection techniques conducted in this research using :

1. Library Studies by studying the literature related to research conducted either from books or from scientific journals.
2. Field study by taking the necessary data on the object under study by conducting interviews (question and answer) and observation (direct observation)

Making information dissemination of

location of elementary schools of country based of Android in this research using method of software development Prototype Model. The prototype begins with the need gathering step, then design, then ends with a prototype evaluation [4]. Figure 1 below is a view of the Prototype Model :



**Figure 1. Prototype Model**

The description of the Prototype Modelstages is as follows:

#### 1. Needs Collection.

Developers and clients meet to determine common goals, known needs and descriptions of the parts that will be needed next. Next do an analysis of what data is needed.

#### 2. Design.

The design is done quickly and the design represents all known software aspects, and this design is the basis for making prototype.

#### 3. Evaluation of Prototype.

Prospective users evaluate prototypes created and used to clarify software requirements. Software that has been run, made improvements if less satisfactory.

### 2.2 Research Virtue

Some of the virtues of this research are as follows:

1. This research analyzes the condition and maps the State Elementary School which has certified teachers on Lampung Province. The results obtained are the description of the location of schools that have certified teachers. The

location of the schools is related to the information of teachers who have been certified at the Elementary School of Lampung Province.

2. The results of such analysis and mapping form the information of the state Elementary School sites that have certified teachers personal based on Android. This Android based information is expected to provide an overview of the location of schools on the data collection of Elementary School teachers who have been certified in Lampung Province. So that can be monitored and known by the Education Office of Bandar Lampung, but it also provides information to the other parties in need it.

The final results to be achieved from the research is able to provide an overview of the location of public Elementary School that has certified teachers with Android based that can be monitored and known by the Education Departemen of Bandar Lampung. It also can provide information to the other parties who need it.

### 2.3 Research Stages

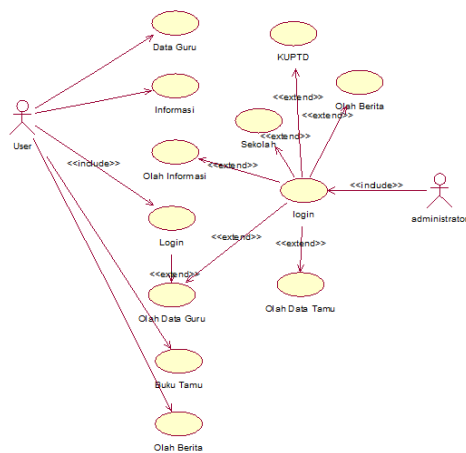
Description of the stages of this research is to use the prototype model stages [4]:

#### 1. Needs Collection.

Conducting the survey as a basis in grouping data on the location of the Elementary School which has certified teachers in Lampung Province based on the subdistrict. Next take the data to the Education Departemen to get data and information about certified teachers in Lampung Province.

#### 2. Design.

This stage of designing information on the location of public Elementary School that have certified teachers in Lampung Province. Figure 2 below is a use case diagram for the Elementary School location information which have certified teachers of Lampung Province based on Android.



### Figure 2. Use Case Diagram

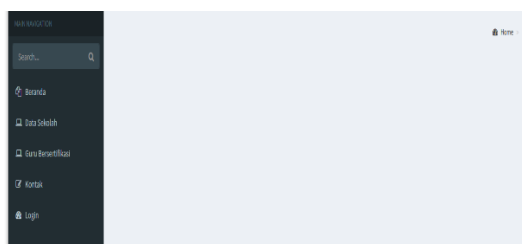
### 3. Evaluation of Prototype.

Doing improvement and addition of information of location of public Elementary School by doing evaluation and monitoring to information of teacher already certified in Lampung Province with based on Android. This information utilizes the website facility to Google. Where the advantages provided from the website are easy to access and distribute information [5].

### 3. Discussion.

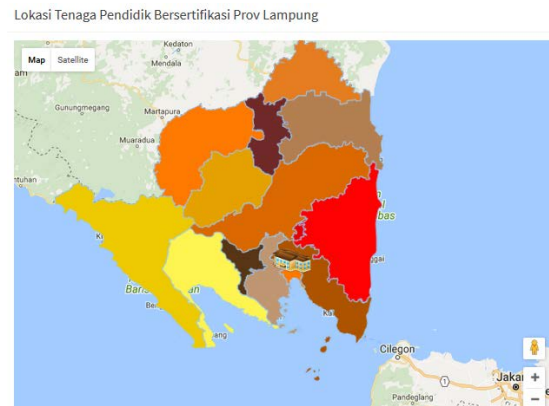
The following is the result of the information of the location of public Elementary School that have certified teachers in the Province of Lampung based Android.

1. The main page serves to display the main menu on the start screen, as shown in Figure 3 below:



### Figure 3. Home

The map page serves to provide a map of the location of public Elementary School that have certified teachers in Lampung Province. The map page is displayed as a location map. Figure 4 below is a view of the map of the location Elementary School that has certified teachers in Lampung Province:



**Figure 4. Map of the location Elementary School with Certified Teachers in Lampung Province**

2. The School data page serves to display the state Elementary School that have certified teachers in Lampung Province. Figure 5 below is a view of the data of public Elementary Schools that have certified teachers:

The screenshot displays a web application interface. On the left is a dark sidebar with navigation links: 'Beranda', 'Data Sekolah', 'Gula Berasifikasi', and 'Login'. The top navigation bar includes a 'Home' link and a 'data\_siswa' link. The main content area is titled 'Data Sekolah Dasar Negeri'. Below the title, there's a 'Show 10 entries' indicator and a search bar. The data is presented in a table with four columns: 'No', 'Rekamatan', 'Nama Sekolah', and 'Detail'. The table contains five rows of data, all for 'Tarung Karang Barat' with different school names. Each row has a blue button labeled 'Lihat Data Siswa' in the 'Detail' column.

No	Rekamatan	Nama Sekolah	Detail
1	Tarung Karang Barat	SD NEGERI 7 GEJONG AIR	<a href="#">Lihat Data Siswa</a>
2	Tarung Karang Barat	SD NEGERI 6 GEJONG AIR	<a href="#">Lihat Data Siswa</a>
3	Tarung Karang Barat	SD NEGERI 3 BUKAHANA	<a href="#">Lihat Data Siswa</a>
4	Tarung Karang Barat	SD NEGERI 2 GEJONG AIR	<a href="#">Lihat Data Siswa</a>
5	Tarung Karang Barat	SD NEGERI 3 BUSUNAN BARU	<a href="#">Lihat Data Siswa</a>

### Figure 5. Data Display of Elementary Schools with Certified Teachers

3. Figure 6 below is a certified teachers data display:

No	Nomor Peserta	HUPDK	Nama Guru	Nama Sekolah
1	34128010718005	6346784602300013	LESTIARJANA	SD NEGERI 6 GECONG AIR
2	341280107181006	9029780681300013	Titi Utami Dwi	SD NEGERI 3 SURABAYA
3	341280102130828	7905978064300012	Titi Fitriani	SD NEGERI 2 GECONG AIR
4	341280102130948	8220194861300013	Nurhidayah	SD NEGERI 1 SURABAYA BARU

### Figure 6. Data Display of Teachers Certified

Discussion for information of Elementary School location that have certified teachers in Lampung Province based on Android is the spread of state Elementary School by subdistrict, which can provide information of certified teachers. So it is still required data of other public Elementary Schools located in Lampung Province. One device that can access information quickly is Android. Information based on Android is expected to

provide information on the location of public Elementary Schools that have teachers who have been certified in Lampung Province that can be monitored and known by the Education Department of Bandar Lampung and other parties in need it.

#### **4. Conclusion.**

Building information location of Elementary Schools havingcertified teachers in Lampung Province based on Android allows users to know the spread of the location of public Elementary Schools that have certified teachers in Lampung Province.

Suggestions that can be given for the development of this next information are as follows:

1. Collecting data on the short paths of public Elementary Schools in Lampung Province
2. The addition of short line featuresbased on distance between public Elementary Schools that have certified teachers on this Android-based application.

#### **Bibliographies**

- [1] Abdul Kadir, T.C Triwahyuni. Introduction to Information Technology. Issue II. Yogyakarta: Andi Publisher. 2013:2.
- [2] Hanif Al Fatta. Information Systems Analysis & Designer. Edition I. Yogyakarta: Andi Publisher. 2007:9.
- [3] Meides Palabiran, Dedi Cahyadi, Zainal Arifin. Geographic InformationSystem Culinary, Arts and Culture City of Balikpapan Based Android. Journal of Informatics Mulawarman. 2015; Vol.10 (No. 10): 54-57.
- [4] Pressman, R.S. Software Engineering. Issue II. Yogyakarta: Andi Publisher. 2012:40.
- [5] Sidik. Edition I. Web Application Developer. Bandung: Publisher Informatika Bandung. 2005:2.