



CONFERENCE PROGRAMS AND ABSTRACT

**The 3rd FIRST 2019 INTERNATIONAL CONFERENCE
FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY
OCTOBER 09-10, 2019
*Palembang, Province of South Sumatera
Indonesia***

Organized by :



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PREFACE

The 3rd FIRST 2019 (Forum in Research, Science, and Technology) International Conference was initiated and organized by State Polytechnic of Sriwijaya in collaboration with Management and Science, University (MSU), Malaysia and National Chin-Yi University of Technology, Taiwan. The theme of the conference was “Integration of Advanced Technology to Enhance Social Welfare”. The 3rd FIRST 2019 International Conference facilitated the participants from all over the world to meet face to face to open chances in establishing connection and collaboration among them. It was not only for the researchers in academics, but also in industries and governments. This conference became an effective media to link the researchers from many parts of the world conference, for exchanging, sharing, following up and discussing the results of the latest research, industry’s needs, and government regulatory policies. The 3rd FIRST 2019 International Conference became worthwhile platform for researchers to present their finding in the areas on multidisciplinary of Engineering and Science (Track 1), Computer Science and ICT (Track 2), and Social Science (Track 3). It has also provided an opportunity for the professionals and researchers to learn and share about the latest development and research in those 3 tracks.

The 3rd FIRST 2019 International Conference attracted so many authors not only from Indonesia but also from other countries, such as Japan, Taiwan, and Malaysia. There were 180 papers were accepted in the 3rd FIRST 2019 International Conference, including 89 papers for Track 1 (Engineering and Science), 46 papers for Track 2 (Computer Science and ICT), and 45 papers for Track 3 (Social Science). In The 3rd FIRST 2019 International Conference, there were 4 keynote speakers and 2 invited speakers. As the keynote speakers, there were Prof. Yasushi Kiyoki, Ph. D from KEIO University, Japan, Prof. Nurul Taufiqu Rochman, M. Eng, Ph. D, From LIPI, Indonesia, Prof. Tjiptohadi Sawarjuwono, M. Ec., Ph. D., Ak, from Universitas Airlangga, Indonesia, and Prof. Win-Jet Luo, from National Chin-Yi University of Technology, Taiwan. As the invited speakers, there were Dr. R. Wisnu Nurcahyo, DVM from Universitas Gadjah Mada, Indonesia, and Assoc. Prof. Dr. Intan Zaurah binti Mat Darus from Universiti Teknologi, Malaysia. The 3rd FIRST 2019 International Conference committee would like to say thank you very much for all the participants and their respected institutions that have supported for the success of the 3rd FIRST 2019 International Conference, and also for all of the guess and sponsors of the 3rd FIRST 2019 International Conference.

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Geographic Information Systems Search Test Location For Admission Of New Students In Sriwijaya State Polytechnic Using Location Based Service (LBS) Method

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Abstract. New Student Admission Selection or in Indonesia called New Student Admission Selection (SPMB) is one of the new student admission selection tests for universities. The problem is usually found during the admission of new students because the students have come from outside the city. Another problem that could be a supervisor might make a mistake when they found the room they were late. And also the Admin is difficult to coordinate with supervisors and new students during the test. This is a geographic information system to search the test locations. This system is built using the Location Based Service (LBS) method by utilizing GPS in Maps. The system development method that is used is RUP, this system will provide the direction of the user's mobile device access. The results of research are made in a system that can facilitate students in finding the location of exam rooms. The geographical information system in mapping is the test location for the students who are going to do the test for the test location, and make it easier for supervisors to find out the location of the new student admission selection test.

Keywords: Geographic Information System (GIS), GPS, Location Based Service (LBS)

1. Introduction

Higher education as an educational institution has the main task of implementing the Tri Dharma of higher education, namely education and teaching, research, and community service. Sriwijaya State Polytechnic is one of the first six Polytechnics in Indonesia. The Sriwijaya State Polytechnic, formerly called the Sriwijaya University Polytechnic was inaugurated on September 20, 1982. Currently the Sriwijaya State Polytechnic has 9 (nine) departments and 20 (twenty) study programs and is divided into 11 (eleven) Diploma programs and 9 (nine) Diploma IV.

New Student Admission Selection or commonly abbreviated as SPMB is one form of student admission examinations for universities, in addition to independent programs (through self-examination) and distribution of interests and talents through schools (formerly PMDK). This exam is carried out for two days every year simultaneously throughout Indonesia, usually held at the beginning of July.

The problem that is usually found when admitting new students is the difficulty of finding a test location for prospective students because most prospective students come from outside the city. The obstacles are that many students like high school kids who want to go to university do not know the location and any information contained on the university they want [1]. Another problem that arises is the occurrence of



errors when the supervisor looks for the exam room so that the supervisor is late in entering the examination room. And the Admin is also difficult to coordinate supervisors and prospective students when implementing the new student admission exam. With the ineffectiveness of finding the location of prospective student exams can be done with the Application of LBS which can be used to find the location of the test, the system will provide directions to the location of the test through access to the user's device. For such scenarios, in which cloaking area is exploited for privacy, results of the query request are generally based on nearest distance between client and service requested [2].

The developed PLAS can thus precisely determine individual user's free time and only supply information about the events they have sufficient time to participate during their free time [3]. This paper develops a formalism to construct topologically distinct configurations based on simple regions [4].

The system that will be created is a system that can facilitate prospective students and supervisors in finding the location of the exam rooms. And to implement a geographic information system in mapping the examination room space for Sriwijaya State Polytechnic students who can be seen by prospective students who will take the test without having to search the test location. And make it easier for supervisors to know the location of prospective student examinations.

Based on the description above the author intends to design and build an application in order to solve these problems. so that this system can run optimally. In connection with the above, the writer will compile the final assignment with the title "Geographic Information System Search for Test Locations for New Student Admissions at Sriwijaya State Polytechnic using the Location Based Service Method (LBS)".

2. Theoretical

2.1 Definition of GIS

Geographic Information System (GIS) is an information system that is used to enter, store, recall, process, analyze and produce geographic reference data or geospatial data, to support decision making in land use planning , management, natural resources, environment, transportation, city facilities, and other public services [5].

Geographic Information System (GIS) is a computer system that has a sub-system consisting of four capabilities in handling geographic reference data [6], namely:

1. Data input, this subsystem is related to the task of collecting, preparing and storing spatial data and its attributes from various sources.
2. Data output, is a subsystem that is able to display or produce the overall output or part of the data in the form of tables, graphs, maps or reports.
3. *Data management, tasked with organizing data, both spatial data and related attributes into the database system so that it is easy to be recalled. So it is often referred to as the storage and retrieval subsystem .*

Data manipulation and analysis , this subsystem performs data manipulation and modeling to produce the expected information produced by the Geographic Information System.

2.2 Definition of Location Based Service (LBS)

Location Based Service is a service that functions to search with *Global Positioning Service* (GPS) technology and *Google's cell based location* [2]. Map and location-based services use latitude and longitude to determine geographic location , but as a user we need our realtime address or position not the value of latitude and longitude. The two main elements of LBS are:

1. *Location Manager (Maps API)*

Providing *tools / sources* for LBS, *Application Programming Interface* (API) Maps provides facilities to display, manipulate maps along with other features such as satellite views, roads, and combinations.

2. *Location Providers (API Location)*

Users can determine their location, track movement / displacement, and proximity to certain locations by detecting displacement.

Broadly speaking, LBS can be divided into two, namely:

1. *Pull Service* : Service is only provided when there is a request from the user.
2. *Push Service* : Services are provided directly by the *service provider* without waiting for requests from users.

Which is built from new information and communication technology (*New Information and Communication Technologies / NICTS*) which includes: *mobile* telecommunications systems and handheld devices, with data originating from the internet and Geographic Information Systems (GIS) that use spatial databases.

This paper develops a formalism to construct topologically distinct configurations based on simple regions.

3. Research Methodology

There are several steps taken in this research . In detail, some of the steps involved include:

3.1 Stages of Problem Formulation

This stage is the process of formulating problems and limiting the problems to be studied. Formulation and limitation of problems is needed in order to get more directing researchers in making the system so that the project that is done does not go out of the pre-determined limits.

3.2 Stages of Data Collection

1. Primary Data

At this stage, the authors conducted *a survey* directly to the authorities, the party who has the authority of the data collection. The author conducts interviews through questions about the location and location of admission examination for prospective students so that they get the obstacles that are being faced and the desire to hold an application in the test location search for new students.

2. Secondary Data

Here the author makes data retrieval indirectly, namely by searching for information through research journals, books, and other document sources .

3.3 Stage of Research Design

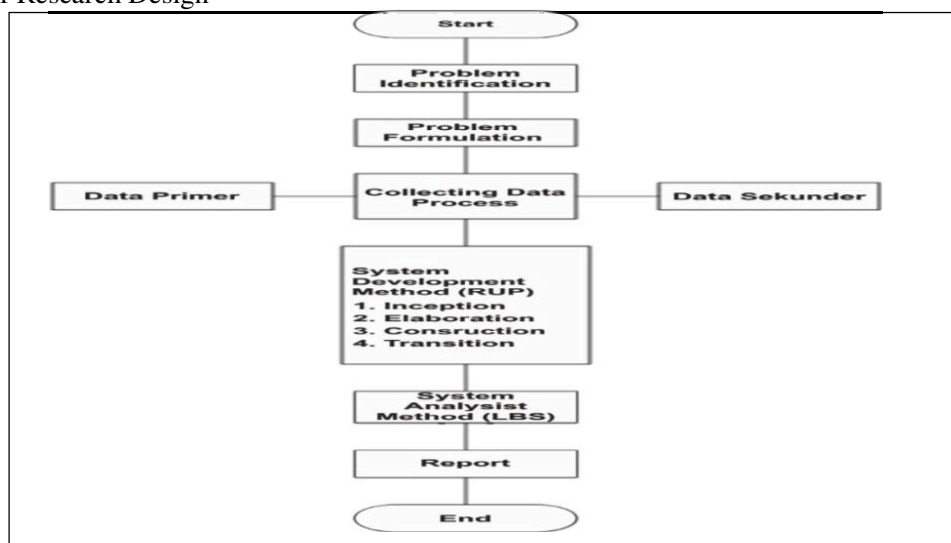


Figure 1. Stages of Research Design

Data Flow Diagrams (DFD) are often used to describe an existing system or system that is developed logically without considering the physical environment, where the data flows or is stored [7].

4. Results And Discussion

4.1 System planning

4.1.1 Use Case Diagram

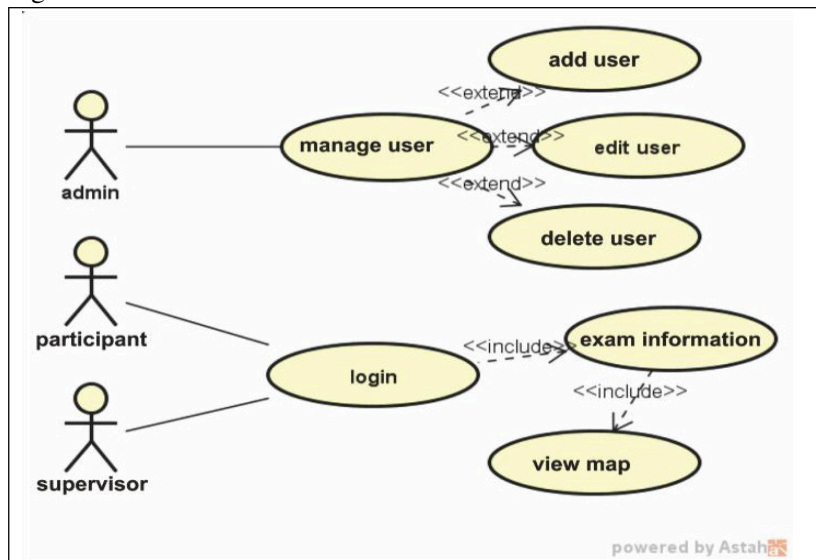


Figure 2. Use Case Diagram

Even List :

1. The actors in the system are 3 (three), namely Admin, Participant, Supervisor, and Committee.
2. Participants and Supervisors can log in and logout using the application, which is then able to check the location of the exam and see a map of the location.
3. Admin can manage users, i.e. add users, view user lists, edit users, and delete users.

4.1.2 Class Diagram

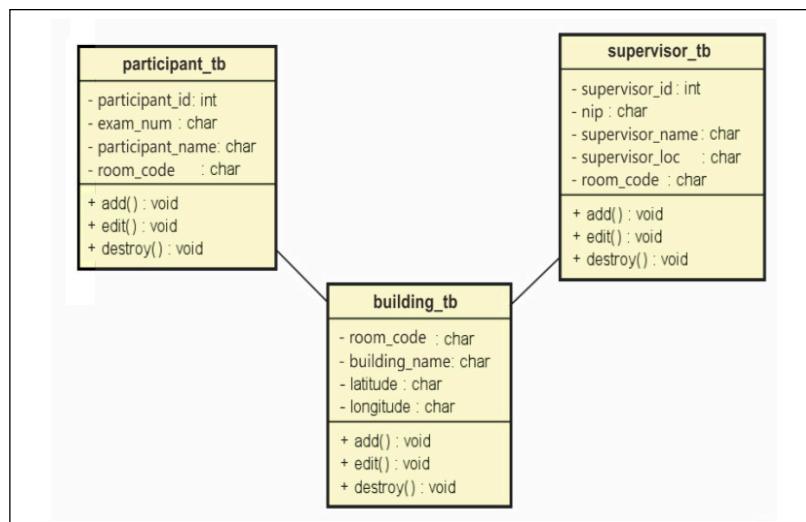


Figure 3. Class Diagram

4.2 System Implementation

The following are some of the interface views of the geographic information system in search of test locations:

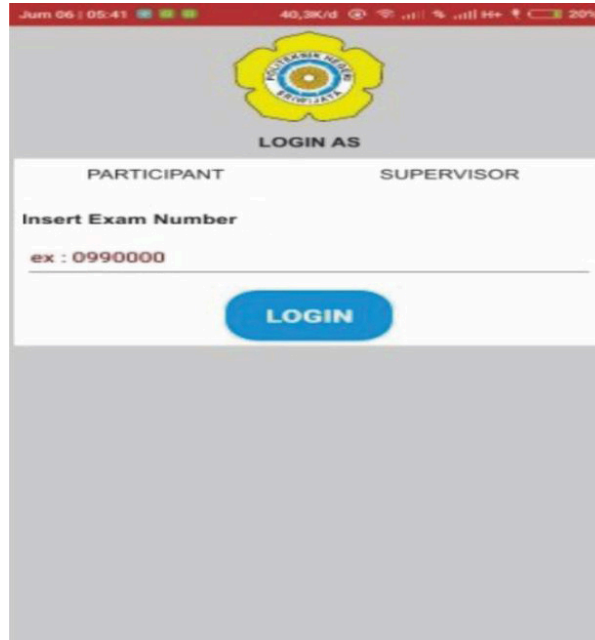


Figure 4. Login page view

On the login page there is a Test Number field that must be filled in. This is the start page when opening the application. If the participant successfully logs in, the system will display the main page after logging in according to the authority. If the participant does not successfully login, the system will repeat displaying the login page.

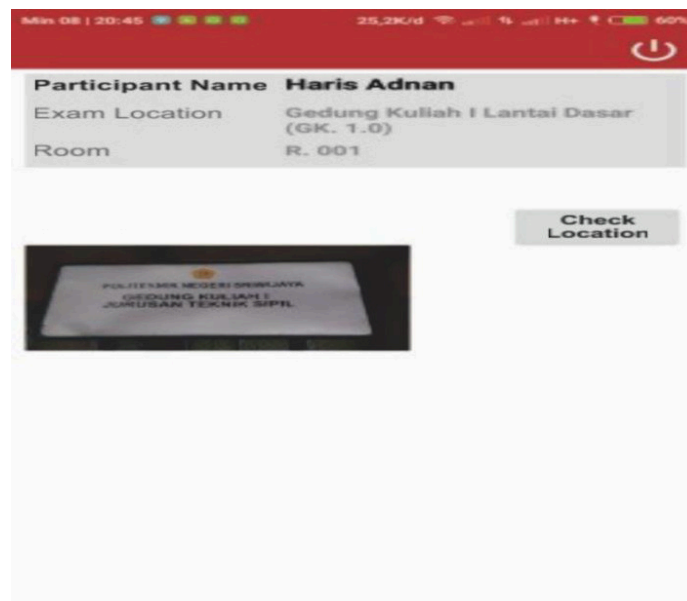


Figure 5. Display of the Main Page

In the Main page view Participants will display the main menu according to the type authority that has been validated at *login* . For Participants , the Participant Name, Test Location, Test Room and Location Check will appear.



Figure 6. Map page view

On the Main Map page will display the main menu according to the type authority that has been validated when clicking on the map map will appear.

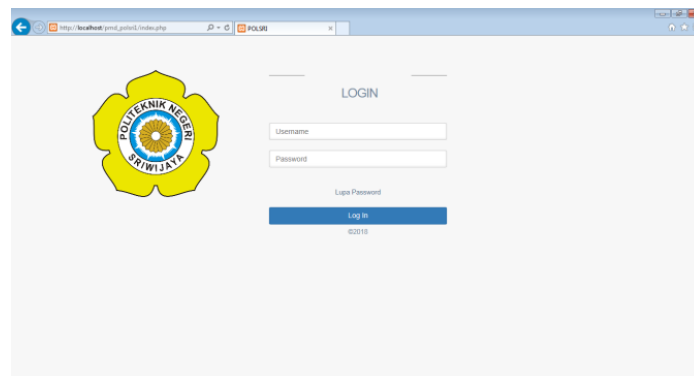


Figure 7. Display of Admin *Login* Page

On the admin *login* page there is a *username* field and *password* .

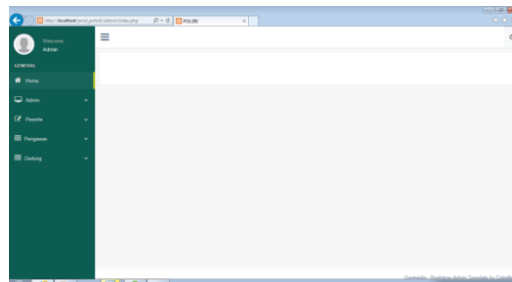


Figure 8. Admin Main Page Display

On this page there are several admin functions, which consist of *home* , admin, participant, supervisor, and building.

5. Conclusions And Recommendations

5.1 Conclusion

Based on the discussion that has been described, it can be concluded that a geographic information system searches the location of the test for the acceptance of prospective new students at the Sriwijaya State Polytechnic using the *Location Based Service* method can be used well in the form of android and admin that adds the data needed in the system.

5.2 Suggestion

For the development of the program, it is better to use a 360 camera for images included in the system so that prospective students can clearly see the test location.

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