



**APLIKASI MOBILE PENGADUAN MASYARAKAT TENTANG
PELANGGARAN LALU LINTAS DI JAKARTA**

TUGAS AKHIR

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**PROGRAM STUDI TEKNIK INFORMATIKA
FAKULTAS ILMU KOMPUTER
UNIVERSITAS MERCU BUANA
JAKARTA
2018**



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ABSTRAK

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Judul : Aplikasi Mobile Pengaduan Masyarakat Tentang Pelanggaran Lalu Lintas

Pada era modern ini banyak kemacetan yang terjadi di Jakarta akibat dari pelanggaran lalu lintas, pelanggaran lalu lintas juga berpotensi besar terhadap kecelakaan bahkan angka kecelakaan di Indonesia saat ini masih tinggi sebagian besar karena kelalaian pengemudi melanggar peraturan lalu lintas. Hingga saat ini pelanggaran lalu lintas tidak dapat diatasi secara cepat, *real time* dan bersamaan. Hal ini menjadi kendala utama bagi pihak terkait khususnya Satuan Polisi Lalu Lintas untuk mengurangi angka kecelakaan dan kemacetan serta menindak pelanggaran lalu lintas. Disamping itu kesadaran masyarakat akan pentingnya tertib berlalu lintas masih rendah. Bagaimana cara agar Satuan Polisi Lalu Lintas mengurangi angka pelanggaran lalu lintas yang menyebabkan kemacetan dan kecelakaan lalu lintas secara cepat dan efisien dengan bantuan semua lapisan masyarakat dalam waktu yang sama dalam tempat yang berbeda?. Padahal teknologi berkembang begitu pesat, penggunaan *gadget* dimana mana seiring dengan kegiatan yang dilakukan manusia. Namun perkembangan teknologi ini kurang dimanfaatkan, karena masih banyak organisasi atau perorangan yang bekerja secara manual dan tradisional ketimbang dibantu secara otomatisasi oleh teknologi informasi. Maka dari itu perlu dibuat sebuah sistem Aplikasi Mobile Pengaduan Masyarakat Dalam Pelanggaran Lalu Lintas. Aplikasi ini dapat membantu kinerja Satuan Polisi Lalu Lintas untuk menangani setiap pelanggaran lalu lintas di kota Jakarta. Membantu untuk mengurangi angka kemacetan dan kecelakaan khususnya di Jakarta. Memberi efek jera kepada pelanggar lalu lintas agar di kemudian hari tidak melakukan pelanggaran kembali. Aplikasi ini membantu masyarakat untuk mempersingkat waktu untuk melakukan pelaporan tentang pelanggaran lalu lintas secara cepat dan efisien. Aplikasi ini berbasis *mobile android* menggunakan bahasa pemrograman *java* dan menggunakan metode *waterfall*.

Kata Kunci — *Gadget, Mobile, Pengaduan, Lalu Lintas, Kemacetan*

ABSTRACT

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Violations of Traffic in Jakarta

In this modern era, a lot of traffic jams that occur in Jakarta due to traffic violations, traffic violations also have a high potential for accidents, even the number of accidents in Indonesia is still high, mostly due to driver negligence violating traffic regulations. Until now traffic violations cannot be dealt with quickly, real time and simultaneously. This is a major obstacle for related parties, especially the Traffic Police Unit to reduce the number of accidents and congestion and take action against traffic violators. Besides that public awareness of the importance of orderly traffic is still low. How do you make the Traffic Police Unit reduce the number of traffic violations that cause traffic jams and accidents quickly and efficiently with the help of all levels of society at the same time in different places? Even though technology is developing so rapidly, the use of gadgets is everywhere along with activities carried out by humans. But the development of this technology is underutilized, because there are still many organizations or individuals who work manually and traditionally rather than being assisted automatically by information technology. Therefore it is necessary to make a Mobile Application System for Complaint of the Community in Traffic Violations. This application can help the performance of the Traffic Police Unit to handle every traffic violation in the city of Jakarta. Helps to reduce congestion and accident rates, especially in Jakarta. Giving a deterrent effect to traffic violators so that in the future they will not commit violations again. This application helps the community to shorten the time to report traffic violations quickly and efficiently. This application is based on mobile android using the java programming language and uses the waterfall method.

Keywords - Gadgets, Mobile, Complaints, Traffic, Congestion

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NASKAH JURNAL

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ABSTRACT

In this modern era, a lot of traffic jams that occur in Jakarta due to traffic violations, traffic violations also have a high potential for accidents, even the number of accidents in Indonesia is still high, mostly due to driver negligence violating traffic regulations. Until now traffic violations cannot be dealt with quickly, real time and simultaneously. This is a major obstacle for related parties, especially the Traffic Police Unit to reduce the number of accidents and congestion and take action against traffic violators. Besides that public awareness of the importance of orderly traffic is still low. How do you make the Traffic Police Unit reduce the number of traffic violations that cause traffic jams and accidents quickly and efficiently with the help of all levels of society at the same time in different places? Even though technology is developing so rapidly, the use of gadgets is everywhere along with activities carried out by humans. But the development of this technology is underutilized, because there are still many organizations or individuals who work manually and traditionally rather than being assisted automatically by information technology. Therefore it is necessary to make a Mobile Application System for Complaint of the Community in Traffic Violations. This application can help the performance of the Traffic Police Unit to handle every traffic violation in the city of Jakarta. Helps to reduce congestion and accident rates, especially in Jakarta. Giving a deterrent effect to traffic violators so that in the future they will not commit violations again. This application helps the community to shorten the time to report traffic violations quickly and efficiently. This application is based on mobile android using the java programming language and uses the waterfall method.

General Terms

Mobile application, public complain, traffic violation.

Keywords

Public complain about traffic violation, android mobile applicaion, complain.

1. INTRODUCTION

In this era, people use information technology more in their daily lives, all activities are carried out not far from gadgets. It's no wonder if humans depend on gadgets. Along with

technological advances from year to year the number of motorized vehicles in Indonesia has increased very rapidly, congestion occurs where this causes high traffic problems. These problems are traffic violations that occur everywhere, traffic violations harm themselves and others, this is what causes traffic jams and accidents. Many law enforcement personnel are required to take action against traffic violators with sanctions according to the slow pace of their actions. Unfortunately, law enforcement personnel who are deployed are not enough to take action against traffic violators quickly and efficiently, and cannot take action at different places at the same time. Along with the demands of an increasingly complex and critical society for public complaints services, it is necessary to prepare technological facilities in the field of communication and information.

This application designed is a mobile application that is used by the community, where it can be taken so that every community who sees a traffic violation can document violations in the form of photographs listing the type of vehicle, including license plates and brief descriptions of events and can be reported directly to the operator law enforcement and then followed up with sanctions in accordance with the legislation. It also needs public awareness to assist law enforcement by carrying out reports. This application is not only useful to help the police reduce traffic violations but also has other benefits, increase public awareness of the importance of orderly traffic, educate the public who do not understand the types of traffic violations, increase awareness of each other among communities, increase cooperation between the police and the community, reducing the number of accidents, reducing the number of crashes and shortening the reporting time of traffic violations.

When driving using a car or motorcycle which includes traffic violations including violating traffic signs, breaking or breaking traffic lights, using communication equipment, going against the flow, entering the busway lane, speeding over speed limits, driving while intoxicated, racing wildly, not turn on the main lights at night, drive on the sidewalk, break the railroad crossings, turn without using a turn signal.

2. LITERATURE REVIEW

In this literature review there are several pieces of discussion on the application of community complains. In the previous

research [1] there were applications that could provide information about several points of congestion in the city of Bandung, can register to become a member of the application and also be able to input information about the point of location of congestion experienced directly by the application user. The application can also help the Polrestabes section of the city of Bandung in providing the results of handling congestion and assisting the Dikyasa section in making the results of the traffic jam reporting.

in the paper [2] there was a complaint information service application to make it easier for the public to submit their complaints and aspirations, so that they could be channeled to the relevant SKPD. So that the Bupati and the local SKPD can control the problems and complaints that exist in the community directly.

In the paper [3] there is a Web-based Public Complaint Service System that makes it easier for the public to submit complaints and requests for information, and to speed up the Police Public Relations Division to respond to any complaints and requests for information. Web-based Community Complaint Service System, where on this website the public can fill out the complaint form directly, see what is being addressed by the National Police leadership, assess the latest news and photos related to the National Police. In addition, the public can directly request information relating to the National Police, such as the cases that have been handled by the National Police and directly see the answers to what information is requested. The public can also see the announcements directly at the National Police such as the announcement of the National Police members' admissions, the announcement of PNS receipts and others. In this website also the public can see the laws and regulations that apply in the National Police.

Paper [4] discussion about Pekanbaru City Social Service and Cemetery is a government agency engaged in community service, located on Jl. Datuk Setia Maharaja no.6, Bukit Raya, Pekanbaru. Pekanbaru Dinsoskam has several programs to improve community welfare such as the new program, the Hope Family Program (PKH). PKH in Pekanbaru City began in 2013 for 8 sub-districts from 12 sub-districts in Pekanbaru City. The total data of participants who were registered as PKH beneficiaries from 8 sub-districts initially numbered 3,019 participants, but after going through the selection stages in the form of validation, verification and updating the number of participants who received assistance was 2,454 participants. will be built "Community Complaints Information System for Hope Program (SIPM-PKH)". This complaints system is expected to be able to accommodate all types of complaints related to PKH and the handling of their resolution.

Paper [5] discussion about web-based online complaints service system in pt. afra informatika to increase consumer services Can be used for complaint services. community and public information requests. information requested by consumers information can be provided from PT Fira

Informatics, provide information so that each complainant or information applicant no longer needs to come to the office PT. Fira Informatics to deliver a letter complaints or requests for requests information and after a period of time that is not long ago consumers immediately knew the answer required.

Paper [6] discussion about system complaints in public services based on electronic media (online) integrated with the ranks of the SKPD through Online People's Complaints (PRO) Denpasar. Complaint Rakyat Online (PRO) Denpasar to accommodate and homogenize complaint handling in the Environment Denpasar City Government. This complaint integrated with the ranks of the Work Unit Regional Devices (SKPD) in the Environment Denpasar City, which was applied first times by the City of Denpasar to level Regency / City area in Bali.

Paper [7] discussion about application of community complaints to report the event of the wild leaves kudus district based on android Illegal levies are deeds which are called extortion acts as a symptom social conditions that have existed in Indonesia, since Indonesia was still in colonial times and even far away before that. The purpose and aim of ALPUKAT is to make a system for reporting illegal fees based on android by using GPS technology to determine the location of illegal collection activities. Benefits what is gained by this system is that the community or system users can easily report illegal collection activities with the accuracy of the location of illegal collection activities. On this application there are advantages, namely the community can later provide evidence of illegal collection activities in the form of audio, picture or video as well as the accuracy of the place where wild levies occur.

3. MOBILE APPLICATION FOR PUBLIC COMPLAINTS ABOUT TRAFFIC VIOLATIONS

1.1.1. 3.1 Traffic

Traffic is walking back and forth, going back and forth and about travel on the road and so on and relating between a place and another place so that traffic is a movement between people and or goods by using goods or space on land, either by means of motion or traffic on the road which can cause problems such as accidents and traffic jams.

1.1.2. 3.2 Mobile Based Application

The mobile application comes from the word application and mobile. Application which means application, application, usage. In terms of the application is a ready-made program designed to carry out a function for other users or applications and can be used by the intended target while the mobile can be interpreted as a transfer from one place to another.

1.1.3. 3.3 Public Complaints

Public complaints are a notification / information submitted by the community, which contains complaints or dissatisfaction about the behavior of individuals or groups about alleged violations of applicable laws and regulations in Indonesia.

1.1.4. 3.4 Traffic Violations

Violations have a basic word "breaking" which can mean colliding; collide, attack, contradict. In other words, traffic violation is an action that collides, or is contrary to the laws and regulations of NO 22 of 2009 concerning traffic.

Table 1. Traffic Jam Area in Jakarta

Area	Location (Road)
Central Jakarta	- Roxy, - Tanah Abang - Sudirman - Thamrin - Kramat Raya - Letjen Suprpto
North Jakarta	- Marunda - Cilincing - Yos Sudarso - R. E. Martadinata - Perintis Kemerdekaan
South Jakarta	- Lebak bulus - Ragunan - Pancoran - Mampang - T. B. Simatupang - Lenteng Agung - P. Antasari - Jalur Kuningan
East Jakarta	- Kampung Rambutan - Pasar Rebo - Jatinegara - Kampung Melayu - Bekasi - D. I. Panjaitan
West Jakarta	- Jalembur

- S Parman
- Kota Tua
- Daan Mogot

1.1.5. 3.5 Android Mobile Application

A mobile application is a program which is designed to run on a mobile device such as a phone, tablet, and watch. Mobile applications often stand in contradict to desktop applications that run on desktop computers, and with web applications that run on mobile web browsers in the mobile devices. One of the most popular mobile application development platform is the Android software development platform. Android software development is the process that creates new applications for devices based on the Android operating system. Applications are commonly developed in the Java programming language using the Android Software Development Kit. The Android software development kit (SDK) includes an extensive set of development tools.

3.1.1 Mobile application for public violation

Mobile applications are used on various things in daily life as an example of this application, the mobile application of public complaints about traffic violations in Jakarta. to be able to use this application each user will be asked to do a login first, but for users who do not have an account a page is provided to register according to the valid identity in Indonesia (see Figure 1).

After registering and successfully logging in, the user can make a report on the home screen, first take a picture and then enter the type of violation, type of vehicle, plate number and location and can be submitted. on the second screen there is a reporting history, there we can see reports that we have reported in minimization or detail. the third screen is the user's biodata page, the user can change the user's biodata and password (see Figure 2)

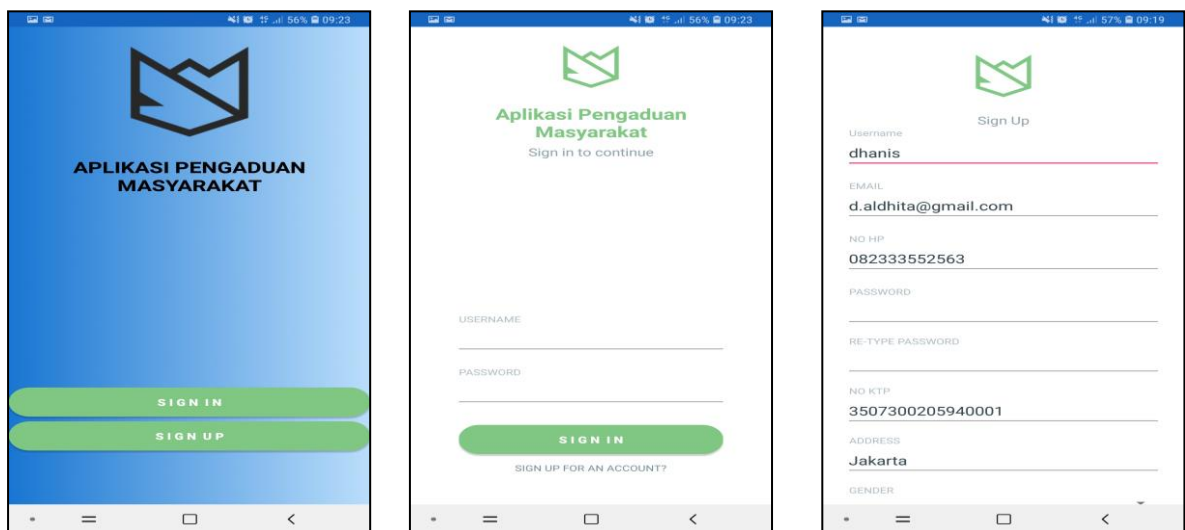


Fig 1: login screen (first), login process (second), sign in process (last)

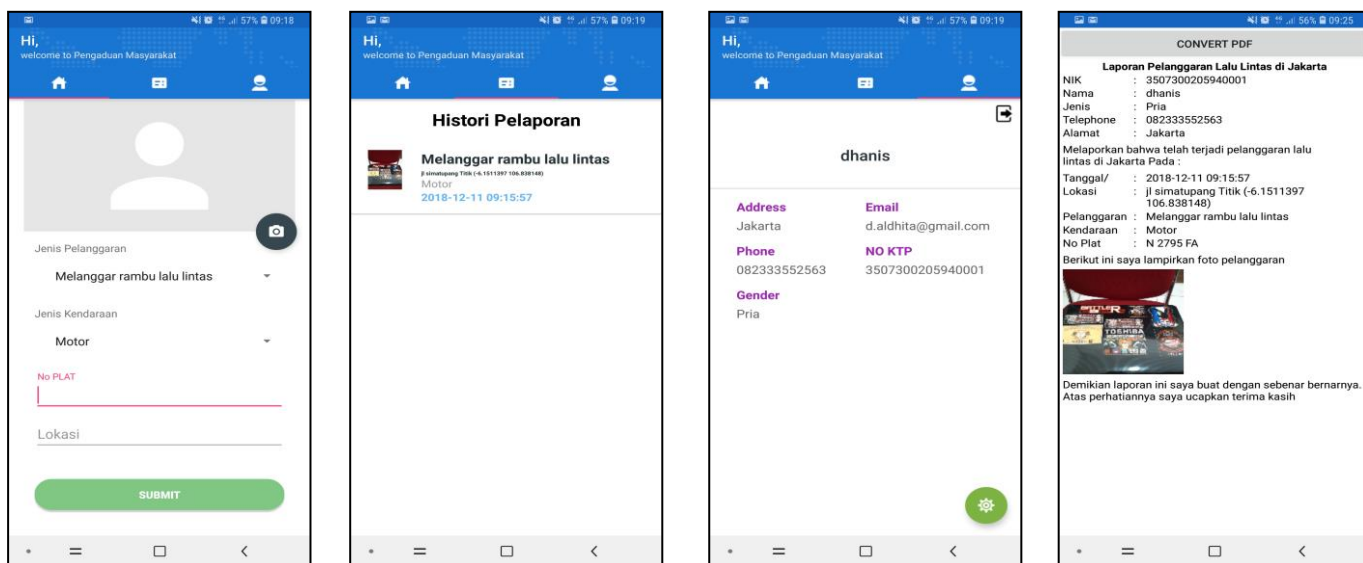


Fig 2: android applicatin to make a report (first), to view a report history (second), to view userprofile (third), to view report in full form (last)

4. CONCLUSION

Traffic violations are a social phenomenon that already exists in Indonesia, especially in Jakarta. The Purpose and Objective of the construction of the Community Complaint Mobile Application System about Traffic Violations in Jakarta is to help the public to report traffic violations in Jakarta. The benefit of this system is that the community or system users can easily report traffic violations in Jakarta quickly and efficiently. In the use of the application, the user is asked to take a photo, then choose a drop down menu about traffic violations made, type of vehicle, vehicle number, and choose the location point according to GPS.

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6. REFERENCES

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KERTAS KERJA

Ringkasan

Kertas kerja ini merupakan material kelengkapan artikel jurnal dengan judul di atas. Kertas kerja berisi semua material hasil penelitian Tugas Akhir yang tidak dimuat/atau disertakan di artikel jurnal. Di dalam kertas kerja ini disajikan:

1. Literature Review
2. Hasil Analisa dan Perancangan Aplikasi
3. Source Code
4. Tahapan Penelitian
5. Hasil Eksperimen Secara Keseluruhan