BUKTI KORESPONDENSI ARTIKEL JURNAL INTERNASIONAL BEREPUTASI

Korespondens	si Indonesian Journal of Electrical Engineering and Computer Science
Index Jurnal	: Terindex Scopus Q3 dan Sinta 1
SJR	: 0.272
Publisher	: This journal is published by the Institute of Advanced Engineering and Science (IAES) in collaboration with Intelektual Pustaka Media Utama (IPMU).
Judul Artikel	: Development of A Mobile Expert System For The Diagnosis on
Jurnal Penulis	Motorcycle Damage Using Forward Chaining Algorithm : Indonesian Journal of Electrical Engineering and Computer Science Vol. 27, No. 3, September 2022, pp. 1601~1609 : Rizqi Fitri Naryanto ¹ , Mera Kartika Delimayanti ² , Kriswanto ¹ , Ari Dwi Nur Indriawan Musyono ¹ , Imam Sukoco ¹ , Mohamad Naufal Aditya ²

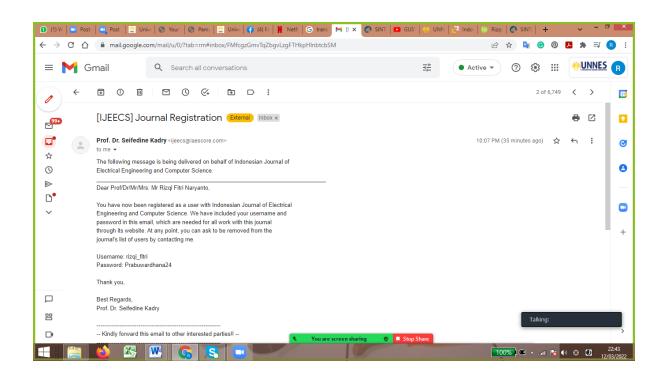
No.	Perihal	Tanggal
1.	Bukti Mendaftar sebagai User di Indonesian Journal of Electrical Engineering and Computer Science	12 Maret 2022
2.	Bukti Review Paper Pertama	12 Maret 2022
3.	Bukti Artikel yang Dikirimkan	19 Maret 2022
4.	Bukti Artikel Accepted	6 Juli 2022
5.	Bukti Permintaan Artikel Manuscript CAMERA READY	22 Juli 2022
6.	Bukti Permintaan ORCID ID dan Pengiriman ORCID ID Penulis	27 Juli 2022

1.Bukti Mendaftar sebagai User di Indonesian Journal of Electrical Engineering and Computer Science (12 Maret 2022)

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Balasan Submit dari Editor IJEEC Journal , Saturday, 12 March 2022

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Prof. Dr. Seifedine Kadry <ijeecs@iaescore.com>

Sat, Mar 12, 10:07 PM (2 hours ago)

to me

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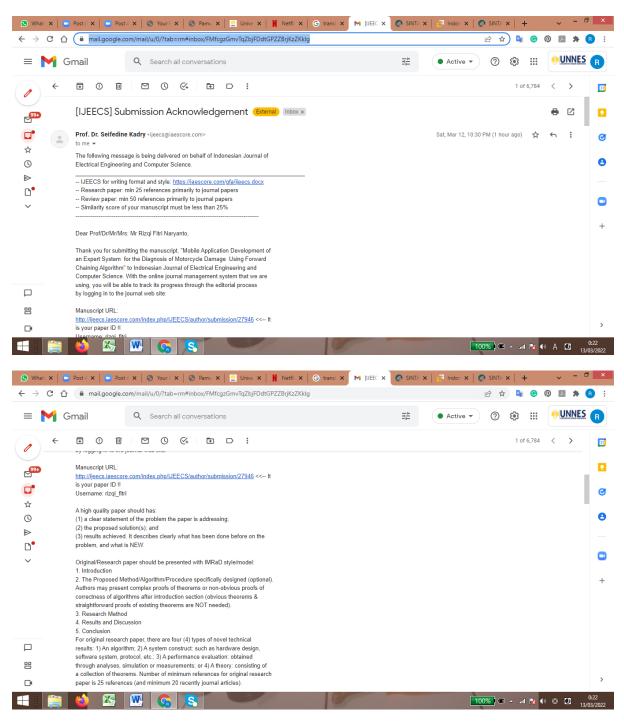
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Thank you,

Best Regards, Prof. Dr. Seifedine Kadr 2.Bukti Review Paper Pertama (12 Maret 2022)

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•	5. Conclusion. For original research paper, there are four (4) types of novel technical results: 1) An algorithm; 2) A system construct, such as hardware design, software system, protocol, etc.; 3) A performance evaluation: obtained through analyses, simulation or measurements; or 4) A theory: consisting of					
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	For review paper, the paper should present a critical, constructive analysis of the literature in a specific field through summary, classification,					ł
•	analysis and comparison. The function and goal of the review paper is: 1) to organize literature; 2) to evaluate literature; 3) to identify patterns and					
	trends in the literature; 4) to synthesize literature; or 5) to identify research gaps and recommend new research areas. The structure includes:					
	Title – in this case does not indicate that it is a review article. Abstract – includes a description of subjects covered.					
	 Introduction includes a description of context (paragraph 1 − 3), motivation for review (paragraph 4, sentence 1) and defines the focus (paragraph 4, sentences 2 − 3) 					
	 Body – structured by headings and subheadings Conclusion – states the implications of the findings and an identifies 					
	possible new research fields 6. References ('Literature Review') – organised by number in the order					
	they were cited in the text. Number of minimum references for review paper is 50 references (and minimum					
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3.Bukti Artikel yang Dikirimkan (19 Maret 2022)

Mobile Application Development of an Expert System for the Diagnosis of Motorcycle Damage Using Forward Chaining Algorithm

Rizqi Fitri Naryanto¹, Mera Kartika Delimayanti¹, Kriswanto¹, Ari Dwi Nur Indriawan Musyono¹,

Imam Sukoco¹, Mohamad Naufal Aditya²

¹Mechanical Engineering Department, Engineering Faculty, Universitas Negeri Semarang, Semarang, Indonesia ²Computer and Informatics Engineering Department, Politeknik Negeri Jakarta, Jakarta, Indonesia

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ABSTRACT

Indonesia is an ASEAN country with the most motorcycle users, where onethird of its population own motorcycles. The automatic motorcycle is the most widely used type due to its agility and fuel-efficient abilities. Sudden motorcycle damage could hamper the users' activities. However, most of these users do not know the reason for the damage. Through a mobile application, which is an expert system for diagnosing automatic motorcycle damage, a solution for these users can be obtained. This application immediately discovers the damaged location and repair process. Furthermore, it acts as the first solution before motorcycle repair is carried out in a shop. The forward Chaining algorithm is a mobile application implementation method carried out by experts through calculations and evaluations of damages or users' input. Various test results showed that the diagnostic application used for automatic Motorcycle damages 100 % worked.

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Corresponding Author:

Rizqi Fitri Naryanto Mechanical Engineering Department, Engineering Faculty Universitas Negeri Semarang, Semarang, Indonesia 50229 Gunung Pati, Semarang, Indonesia Email: <u>rizqi_fitri@mail.unnes.ac.id</u>

1. INTRODUCTION

Automatic motorcycle types are widely used in the world. The unique physical characteristics are that it is slim and sporty. It also adopts a 110-cc engine to obtain attractiveness and agility. Furthermore, this type of motorcycle is environmentally friendly and easy to use. All motor vehicles experience various damages, an example of the most common damage is the engine being unable to turn on. This confuses users that do not know the reason for the damage, which is solved afterward by meeting motorcycle service experts. Furthermore, the us of an expert system for diagnosing motorcycle damage is also a potential user solution.

Although information technology (IT) is increasingly powerful and sophisticated, human intelligence and expertise still play a decisive role in many situations. Limited user knowledge often affects the levels of performance in various areas of responsibility. Furthermore, expert system development based on recent year's expertise provides a solution that enables ordinary users to carry out expert roles. These systems which began to commercialize a few years ago experienced dramatic progress in the development of applications for businesses and industries [1]–[4]. Furthermore, mobile applications were implemented in the agricultural and medical fields for diagnosis and treatment [5]–[8]. Therefore, it was built to act as a decision support system[9]–[11]. These applications were also developed for the implementation of mobile learning systems, especially during the covid19 pandemic [12], [13].

There are high expectations from the areas of development for expert systems. Human expertise is transferred for easy access through these built knowledge-based expert systems. Furthermore, knowledge and skill often need to be assessed and constantly updated through various testing processes, which maintains the system's expert performance. An inference mechanism also exists for analysis and assessment. Therefore, this allows for easy-to-use interfaces which allow the system to operate without extensive training for non-technical users. Various systems also explain the output generated or suggest alternatives to choose from as requested by the user [14].

Furthermore, expert systems are constructed to judge incomplete or futile information for practical use. It is a scientific artificial intelligence that helps humans solve problems. It also works to adopt the knowledge of an expert which is integrated into a computer system. This means it is designed to solve a problem like an expert in a particular field. Expert systems are beneficial for users trying to solve an unfamiliar problem without directly meeting experts [15]. Furthermore, this system works due to its problem analysis and solution discovery abilities through interviews and respondents' data collection results. It obtains weights and calculations, which conclude on an answer with the highest score[16].

The inference method is a part of an expert system that provides a mechanism for the function of thinking and patterns of reasoning used by an expert. This approach discovers the best answers and conclusions for question analysis following the database rules based on facts [6], [17], [18].

Currently, the results of expert systems in various fields are due to several development methods such as forward chaining. This method arrives at a conclusion based on data or facts that lead to it. Forward chaining also discovers answers with the IF-THEN algorithm using known facts. After obtaining desired facts, the system adjusts results obtained from the IF algorithm section using IF-THEN rules. Furthermore, provided these facts follow the appropriate section, the system will convert it into an output which is the problem solution. However, for facts that are not appropriate, the system will continue to search for the THEN algorithm section until it discovers the right solution as output[19]. This study was carried out to develop an expert system for detecting automatic motorcycle damage using the Forward Chaining Method. The application can be executed on android-based phones, through which the expert system identifies automatic motorcycle users on cellphones.

2. METHOD

The study method is closely linked to the methods, techniques, tools, and projects used. Also, the design used matched the selected approach, while the techniques and instruments employed were also consistent with the established study methods. Furthermore, a "qualitative approach" that integrated various situations and phenomena with the author as an instrument for carrying out the study was utilized. There were steps implemented to design for complex realities, observation data collection techniques and interviews. The following are the study projects, literature, data gathering, analysis of systems, development, and reporting, which is similar to previous studies on this topic[20], [21].

To identify the problem in the field, a literature study was carried out. Afterward, the theoretical basis, support and comparison of various book reviews related to the problem were obtained from the internet, observations and interviews at the official service center for motorcycles. Therefore, the aim was to strengthen this data and understand how to diagnose motorcycle damage appropriately at these service centers through observational techniques carried out directly by experts. Furthermore, interviews with technicians, staff, and mechanical workers at the motorcycle Service Center were carried out. This led to an understanding of diagnosed automatic motorcycle damages. Documental analysis was also used in the qualitative study for observation and interview methods.

In the system analysis phase, the analysis of current problems was carried out during the diagnosis process of damages. The waterfall or classic life cycle method was used for development due to the practical advantages while reflecting the technical features that preserve software quality through structured and supervised development. Furthermore, reports were based on study results using primary and secondary data collection techniques and appropriate topic-driven study methods[21].

Various system requirements were achieved through the above phases and study framework which include Input form, user data, damage types in the motorcycle, issues relating to symptoms of a motorcycle user, rules, and checks for motorcycle damage. The process requirements include admin, user, motorcycle damage type, questions, rules, inspection, and results. Furthermore, the output requirements were for the diagnosis of motorcycle damage [22], [23]. Table 1 and Table 2 described the list of the inference questions and the list of the damage in the motorcycle.

Code	Symptoms
K01	The engine spins, however it does not start.
К02	DTC (Diagnostic Trouble Code).
К03	MIL (Malfunction Indicator Lamp).
К04	The engine spins or will not start (There is no working fuel pump sound for a turned ON ignition).
K05	The engine shuts down continuously.
K06	Starting engine difficulty.
K07	Rough stationary round.
К08	Backfiring (shooting) or Misfiring (brebet) during acceleration.
К09	Poor performance (easy ride).
K10	Wasteful use of fuel.
K11	Stationary rotation of the machine below specifications.
K12	Stationary rotation of the machine above specifications.
К13	MIL keeps on or MIL doesn't light up at all (machine works normally).
K14	No DTC (Diagnostic Trouble Code).
K15	Ignition coil primary voltage is either a low peak or no peak voltage.
K16	The ignition coil primary voltage is normal, with no spark at the spark plug.
K17	The ignition pulse generates either low or no voltage.
K18	The starter motor rotates the engine slowly.
К19	The starter motor rotates or clicks, however, the engine does not rotate.
K20	The engine oil level is too low.
K21	High oil consumption.
K22	Contaminated oil.

Table 1. List of Inference Questions ss Symptoms

K23	Compression is too low or too high.
К24	Poor performance at low speed.
K25	Overheating or knocking.
К26	Excessive smoke.
K27	Noisy machine.
К28	Abnormal sound.
К29	Piston ring stuck or sliding.
К30	Bearing damage.
K31	The engine starts, however, the scooter does not move.
K32	The engine stops suddenly or the scooter crawls.
К33	Poor performance at high speed or underpowered.
K34	The leaking of Oil.

Table 2. List of The Damage in an Automatic Motorcycle

Code	List of the damage
A01	Programmed Fuel injection PGM-FI system malfunction.
A02	Damage to the ignition system.
A03	Damage to Electric Starter.
A04	Damage to the lubrication system.
A05	Damage to Cylinder Head or valve/Cylinder/Piston.
A06	Damage to the Crankcase or Crankshaft and Final Reduction or transmission.
A07	Damage to Cylinder or Piston.
A08	Damage to Kickstarter or drive pulley/driven pulley/clutch and Final Reduction or transmission.
A09	Damage to Kickstarter or drive pulley/driven pulley/clutch.
A10	Damage to Final Reduction or transmission.
A11	Damage to Carburettor.
A01	PGM-FI system malfunction.
A02	Damage to the ignition system.
A03	Damage to Electric Starter.
A04	Damage to the lubrication system.
A05	Damage to Cylinder Head or valve/Cylinder/Piston.
A06	Damage to the Crankcase or Crankshaft and Final Reduction or transmission.

The data rule was a schema concerned with the method used by systems to carry out the production of a solution or diagnostic result based on data constraints regarding motorcycle damage, shown in Table 3 below.

Table 3. The Rule of The Data

No.	Rule	DATA
1.	Rule 1	IF there are two symptoms from K01 AND K02 OR K03 THEN A01.
2	Rule 2	IF there is a symptom from K04 OR K08 OR K11 OR K12 OR K13 THEN A01.
3	Rule 3	IF there are 3 symptoms from K05 AND K06 AND K07 THEN A01.
4	Rule 4	IF there are 2 symptoms from K09 AND K10 OR K13AND K14 THEN A01.
5	Rule 5	IF there is a symptom from K15 OR K16 OR K17 THEN A02.

6	Rule 6	IF there is a symptom from K18 OR K19 THEN A03.
7	Rule 7	IF there are symptoms from K20 AND K21 THEN A04.
8	Rule 8	IF t here is a symptom from K22 THEN A04.
9	Rule 9	IF there are symptoms from K23 AND K06 OR K24 OR K25 THEN A05.
10	Rule 10	IF there is a symptom from K26 OR K27 OR K07 THEN A05.
11	Rule 11	IF there is a symptom from K28 THEN A06
12	Rule 12	IF there are symptoms from K29 AND K30 THEN A07.
13	Rule 13	IF there is a symptom from K31 THEN A08.
14	Rule 14	IF there is a symptom from K32 OR K33 THEN A09.
15	Rule 15	IF there is a symptom from K34 THEN A10.
16	Rule 16	IF there is a symptom from K04 AND K14 THEN A11.
17	Rule 17	IF there are symptoms from K32 AND K6 AND K7 THEN A11.

The following steps should be carried out to create a rules-based forward chaining system, (i) problem (including problem selection of the domain and knowledge acquisition) and data input system definition which requires initial information to initiate inference, (ii) defining the structure of data control, (ii) initial coding to determine the system's ability to effectively capture the field of knowledge within a proper structure of rules, (iv) system tests carried out with several rules to test the running system, (v) interface design, and the creation of a knowledge base, (vi) systems development that includes adding system prototype interfaces and knowledge and (vii) assessment of the system in the form of a real problem test. Redevelopment is carried out provided that the system does not work properly.

3. RESULTS AND DISCUSSION

Various damages existed in different motorcycles. An expert system was developed in Java on Android Studio with MySQL as a database system using the forward chaining method to detect these damages in a mobile-based application, especially those that are android based. Furthermore, this developed system assisted the user to identify the symptoms of motorcycle damage and obtain the initial treatment method for overcoming it. The flowchart of the system is shown in figure 1. The process commences with a user login and is directed to the main page of the expert system. On this main page, there is a Diagnostics button, which could be pressed by users that want to diagnose the damage. Afterward, users are instructed to choose several symptoms according to those experienced by the motorcycle. After all the symptoms are selected, the system will search for damage according to the constraints experienced by the user's motor.

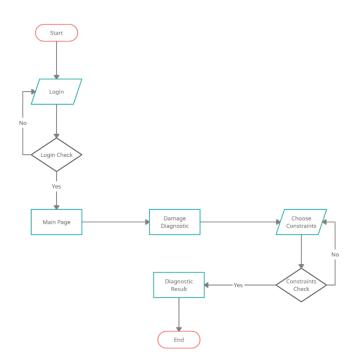


Figure 1. The flowchart of the system

The use case diagram is introduced for modelling or describing the system's limitations and its primary functions. This diagram shows the operation of a system from the user's user point of view. Furthermore, it illustrates regular interaction between users and the system through system utilization explanations. The use case identification and scenario are the two main aspects of the use case diagram. Here, menus exist in the android application where users log in, carry out damage diagnosis based on symptoms, displays damage history, delete history, view a list of motor components with videos on repairing a motorcycle, and accesses application notes. Admins or experts also add, modify, or delete constraint, crash, and rule data as shown in figure 2.

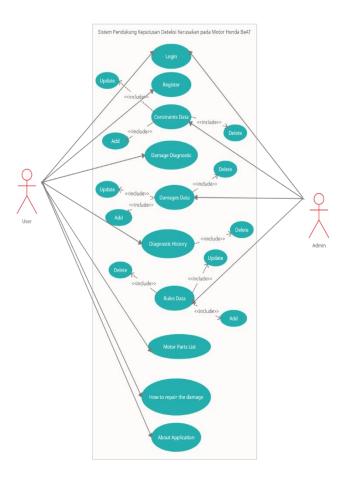


Figure 2. Use Case Diagram

This study developed an activity diagram based on the application diagnosis as shown in figure 3.

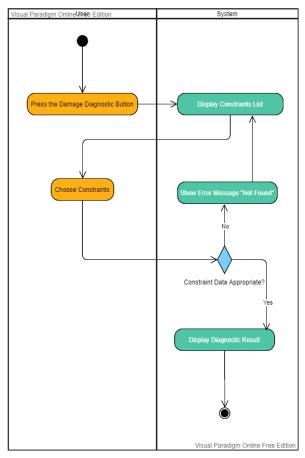


Figure 3. Activity diagram for the damage diagnosis

The interface of the application was developed, with a system built on Android OS and executed or uploaded in Google Play Store. Furthermore, black box testing which involves observing the results of execution through test data and checking of software functionality was carried out. Table 4 shown the black box testing results from the system's function after functionality testing of several menus that were applied in the application.

Code	Menu Testing	Testing Scenario	Res	ult	Detail		
			Success	Failed			
USER							
Test01	Page Registration	Display the registration form.	v		The application shows the form.		
Test02	Page Registration	Carry out registration.	v		Users can carry out the registration.		
Test03	Login Page	Display the login form.	v		The application shows the form login.		
Test04	Login Page	Carry out the login process.	v		Users can carry out the login.		
Test05	Main Page	Display the main page.	v		The application shows the main page.		
Test06	List of Symptom Page.	Display the question of the symptoms.	v		The application asks for the symptoms.		
Test07	List of Symptom Page.	Display the next question of the symptoms.	v		The application asks for the symptoms.		
Test08	List of Damage Page.	Display the result of the diagnosis.	v		The application asks for the diagnosis result.		
Test09	List of detailed damage	Display the detailed damage information.	v		The application shows the damage description and solution.		
Test10	History of the damage.	Display the damage history.	v		The application shows the damag history.		
Test11	History of the damage.	Delete the damage history.	v		The application deletes the damage history.		

Table 4. The Result of Black Box Testing of The System

Test12	List of motorcycle parts.	Display of motorcycle's part.	v	The application shows the list of motorcycle parts.
Test13	How to fix the damage.	Display information on how to fix the damage.	v	The application shows the maintenance system page.
Test14	About the Application.	Display the information of the application	v	Application can show the detail information of the system
ADMIN				
Test15	List of the Symptoms.	Admin carries out the CRUDE function (Create, Update, Delete)	v	Admin can carry out the CRUDE function.
Test16	List of the damage.	Admin carries out the CRUDE function (Create, Update, Delete).	v	Admin can carry out the CRUDE function.

Based on Table 4 the discoveries of black-box testing determined that functionally built applications provided expected outcomes. Selecting the symptoms of the damage was also one of the factors that influenced the rule-based forward-chaining results.

Furthermore, an android-based expert system was used to diagnose damage for the automatic motorcycle through the forward chaining method. It was anticipated that this will make it easier for users to understand the symptoms of damage detection and how early treatment is required to quickly overcome these symptoms. The required detection procedure can be carried out at any time and from any location.

4. CONCLUSION

Based on the results and discussion, it can be concluded that

- 1) The development of an expert system using mobile applications was successfully executed because it obtained 100% in each test.
- 2) The Forward Chaining method had an excellent level of accuracy, which was 100% when diagnosing motorcycle damage, especially automatic types.
- 3) The Forward Chaining method also required users to answer every question asked by the system to the last question even though the constraint data already match one type of damage.
- 4) The user was greatly assisted by an expert system in deciding treatment information and methods that were consistent with the diagnosis of the motorcycle damage.

ACKNOWLEDGEMENTS

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BIOGRAPHIES OF AUTHORS





Mera Kartik Delimayanti D S S P received the Doctoral degree in Electrical Engineering and Computer Science from Kanazawa University, Japan with specialization in Bioinformatics. His research areas are Bioinformatics, Medical Informatics, Data Science, Machine Learning and Biomedical Engineering. Now, she is a lecturer at Computer and Informatics Engineering, Politeknik Negeri Jakarta. She is director of Unit of Transformation Digital at Politeknik Negeri Jakarta. She has supervised and co-supervised more than 80 undergraduate students and 2 masters students. She has authored or coauthored more than 30 publications: 15 proceedings and 15 journals, with 3 H-index. She has gained more than 10 intelectual property rights from ministry of Law and Human Rights, Indonesia. She has awarded as Exemplary lecturer at 2016 in Politeknik Negeri Jakarta. She can be contacted at email: <u>mera.kartika@tik.pnj.ac.id</u>

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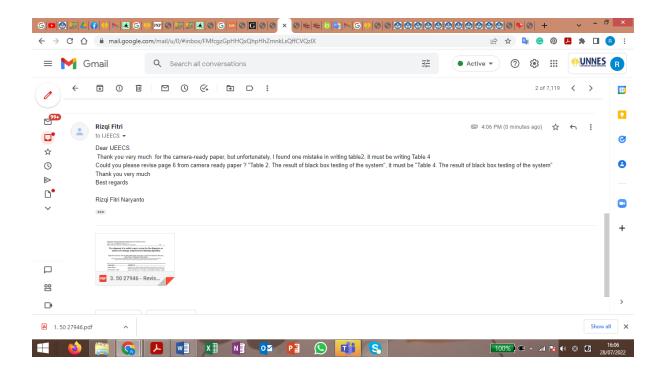
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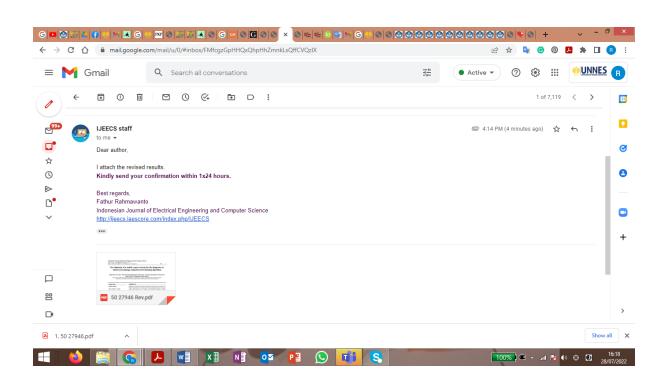
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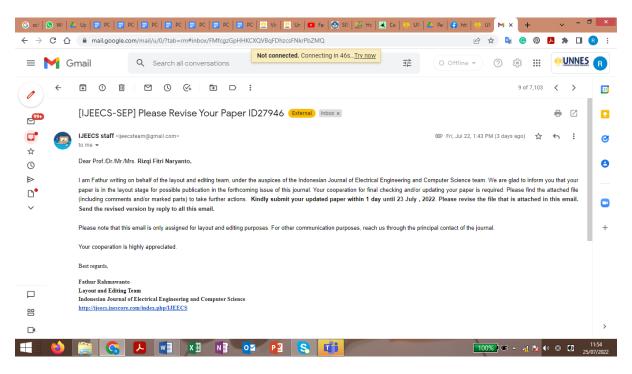
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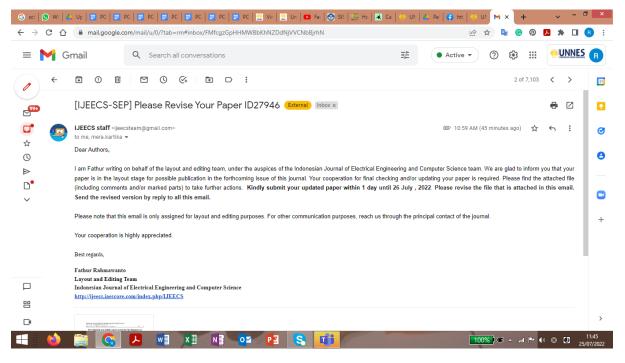
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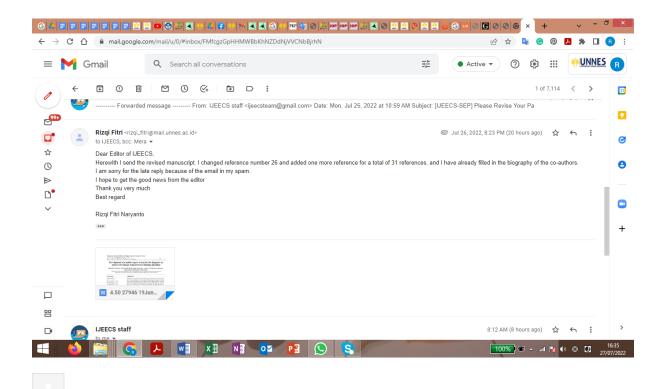
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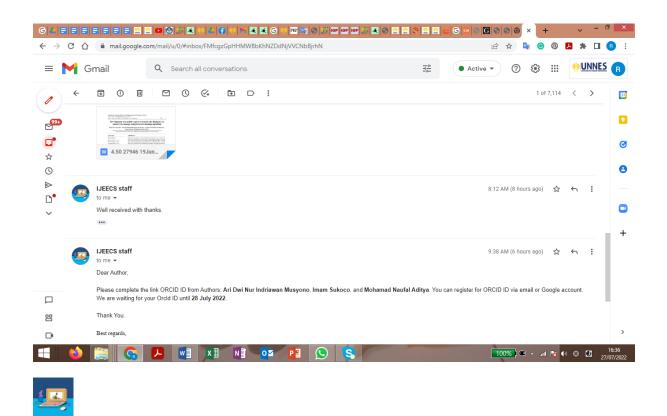
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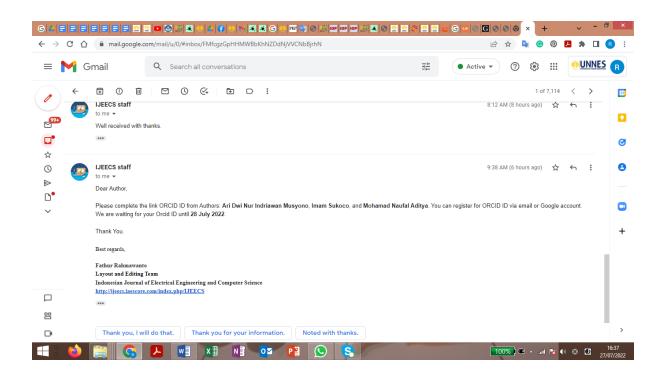
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