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Table of contents

Volume 879

2020

◆ Previous issue Next issue ➤

3rd International Conference on Informatics, Engineering, Science, and Technology (INCITEST 2020) 11 June 2020, Bandung, Indonesia

Accepted papers received: 11 June 2020 Published online: 05 August 2020

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Preface			
OPEN ACCESS			011001
Preface	- Vi	3 DDF	
+ Open abstract	■ View article	₱ PDF	
OPEN ACCESS			011002
	es of INCITEST 2		
+ Open abstract	■ View article	PDF	
OPEN ACCESS			011003
Peer review state	ement		011000
+ Open abstract	■ View article	PDF	
Informatics and	I Information Sy	stem	
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E S Soegoto and M	F Rinaldy		
+ Open abstract	View article	₹ PDF	
OPEN ACCESS			012004
The Influence of	Information Tech	nology on Public Transportation	
T Rohmawati and I			
+ Open abstract	■ View article	₱ PDF	
OPEN ACCESS			012005
		oplication Information System	
T Rohmawati and F			
+ Open abstract	■ View article	™ PDF	
OPEN ACCESS			012006
Artificial Intellige		el of Fake News	
S Nazar and M R B		5	
+ Open abstract	■ View article	PDF	
OPEN ACCESS			012007
-		s Information System	
H D Yulianto and R		2 225	
+ Open abstract	■ View article	PDF	
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+ Open abstract	View article	PDF	
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Web Service for		ation Systems	
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 Open abstract 	View article	PDF	

-	-	icle Rental Based Web	012010
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+ Open abstract	■ View article	PDF	
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W H Pratama and I I	_	₩ PDF	
+ Open abstract	View article	₹ PDF	
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+ Open abstract	■ View article	PDF	
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S M Putri and I D Su	-	t for Small Business	
+ Open abstract	View article	[™] PDF	
• Орен арзиаст	wiew article	<u> </u>	
	-	mart Parking Based on Smartphone	012014
R Wahdiniwaty and	_		
+ Open abstract	View article	PDF	
	-	Developing a Design Theory	012015
IBS Nusa and FM	_		
+ Open abstract	■ View article	PDF	
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+ Open abstract	■ View article	PDF	
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Quality of Service T Ernawati and B D I	e (QoS) Method (ork Internet Data Connectivity Based on Case Study West Bandung Regency Touris	
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Comparative Ana Quality of Service T Ernawati and B D I + Open abstract OPEN ACCESS Study of Risk Ass to Digital Archivin	e (QoS) Method (Pratama View article sessment and Bung Process in ord	Case Study West Bandung Regency Tourisi ⚠ PDF Issiness Continuity Management of Analog ler to Guarantee Reliable System	m Area)
Comparative Ana Quality of Service T Ernawati and B D I + Open abstract OPEN ACCESS Study of Risk Ass to Digital Archivir Yeffry Handoko Putra	Pratama View article Sessment and Burg Process in ord a and Rahma Wahd	Case Study West Bandung Regency Tourisi PDF Isiness Continuity Management of Analog ler to Guarantee Reliable System iniwaty	m Area)
Comparative Ana Quality of Service T Ernawati and B D I + Open abstract OPEN ACCESS Study of Risk Ass to Digital Archivin Yeffry Handoko Putri + Open abstract OPEN ACCESS Model of Autonor Precision Agricult I Afrianto, A Khumaic	ec(QoS) Method (in Pratama View article sessment and Bung Process in ord a and Rahma Wahd View article mous Unmanned tural Transport 4. di and Adriyendi	Case Study West Bandung Regency Tourist PDF Isiness Continuity Management of Analog ler to Guarantee Reliable System iniwaty PDF On-Road and Aerial Vehicle Carriers For 0 : A Literature Review	o12018
Comparative Ana Quality of Service T Ernawati and B D I + Open abstract OPEN ACCESS Study of Risk Ass to Digital Archivin Yeffry Handoko Putn + Open abstract OPEN ACCESS Model of Autonor Precision Agricult	essment and Bung Process in ord a and Rahma Wahd View article view article up to the control of	Case Study West Bandung Regency Tourist PDF Issiness Continuity Management of Analog ler to Guarantee Reliable System iniwaty PDF On-Road and Aerial Vehicle Carriers For	o12018
Comparative Ana Quality of Service T Ernawati and B D II + Open abstract OPEN ACCESS Study of Risk Ass to Digital Archivin Yeffry Handoko Putra + Open abstract OPEN ACCESS Model of Autonor Precision Agricult I Afrianto, A Khumaid + Open abstract OPEN ACCESS Location Search A Mobile Devices	C(QoS) Method (Pratama View article sessment and Bug Process in ord a and Rahma Wahd View article mous Unmanned tural Transport 4. di and Adriyendi View article Application for R	Case Study West Bandung Regency Tourist PDF Isiness Continuity Management of Analog ler to Guarantee Reliable System iniwaty PDF On-Road and Aerial Vehicle Carriers For 0 : A Literature Review	012018
Comparative Ana Quality of Service T Ernawati and B D II + Open abstract OPEN ACCESS Study of Risk Ass to Digital Archivin Yeffry Handoko Putra + Open abstract OPEN ACCESS Model of Autonor Precision Agricult I Afrianto, A Khumaia + Open abstract OPEN ACCESS Location Search Mobile Devices S Nurhayati, N Milal	e (QoS) Method (Pratama View article sessment and Bung Process in ord a and Rahma Wahd View article mous Unmanned tural Transport 4. di and Adriyendi View article Application for Ra	Case Study West Bandung Regency Tourisi PDF Issiness Continuity Management of Analog ler to Guarantee Reliable System iniwaty PDF On-Road and Aerial Vehicle Carriers For 0: A Literature Review PDF	012018
Comparative Ana Quality of Service T Ernawati and B D II + Open abstract OPEN ACCESS Study of Risk Ass to Digital Archivin Yeffry Handoko Putra + Open abstract OPEN ACCESS Model of Autonor Precision Agricult I Afrianto, A Khumaid + Open abstract OPEN ACCESS Location Search A Mobile Devices	C(QoS) Method (Pratama View article sessment and Bug Process in ord a and Rahma Wahd View article mous Unmanned tural Transport 4. di and Adriyendi View article Application for R	Case Study West Bandung Regency Tourist PDF Issiness Continuity Management of Analog ler to Guarantee Reliable System iniwaty PDF On-Road and Aerial Vehicle Carriers For 0 : A Literature Review PDF	012018
Comparative Ana Quality of Service T Ernawati and B D I + Open abstract OPEN ACCESS Study of Risk Ass to Digital Archivin Yeffry Handoko Putra + Open abstract OPEN ACCESS Model of Autonor Precision Agricult I Afrianto, A Khumaid + Open abstract OPEN ACCESS Location Search Mobile Devices S Nurhayati, N Milal + Open abstract OPEN ACCESS Web-Based Honor	Pratama View article sessment and Bug Process in ord a and Rahma Wahd View article mous Unmanned tural Transport 4. di and Adriyendi View article Application for R and A P Sujana View article	Case Study West Bandung Regency Tourisi PDF Issiness Continuity Management of Analog Ier to Guarantee Reliable System iniwaty PDF On-Road and Aerial Vehicle Carriers For 0: A Literature Review PDF efuelling Stations on Android Based PDF	012018 012019 012020
Comparative Ana Quality of Service T Ernawati and B D II + Open abstract OPEN ACCESS Study of Risk Ass to Digital Archivin Yeffry Handoko Putri + Open abstract OPEN ACCESS Model of Autonor Precision Agricult I Afrianto, A Khumaid + Open abstract OPEN ACCESS Location Search Mobile Devices S Nurhayati, N Milal + Open abstract OPEN ACCESS LOCATION SEARCH AMOBILE DEVICES UNCONTRACTED SEARCH AMOBILE DEVICES S Nurhayati, N Milal + Open abstract OPEN ACCESS Web-Based Hono N Hasti, D Dekiki, I O	Pratama View article sessment and Bug Process in ord a and Rahma Wahd View article mous Unmanned tural Transport 4. di and Adriyendi View article Application for R and A P Sujana View article orary Teacher Pag Gustiana, W Wahyur	Case Study West Bandung Regency Tourisi PDF Issiness Continuity Management of Analog Ider to Guarantee Reliable System iniwaty PDF On-Road and Aerial Vehicle Carriers For 0: A Literature Review PDF efuelling Stations on Android Based PDF yroll Information System ii and T Hartono	012018 012019 012020
Comparative Ana Quality of Service T Ernawati and B D I + Open abstract OPEN ACCESS Study of Risk Ass to Digital Archivin Yeffry Handoko Putra + Open abstract OPEN ACCESS Model of Autonor Precision Agricult I Afrianto, A Khumaid + Open abstract OPEN ACCESS Location Search Mobile Devices S Nurhayati, N Milal + Open abstract OPEN ACCESS Web-Based Honor	Pratama View article sessment and Bug Process in ord a and Rahma Wahd View article mous Unmanned tural Transport 4. di and Adriyendi View article Application for R and A P Sujana View article	Case Study West Bandung Regency Tourisi PDF Issiness Continuity Management of Analog Ier to Guarantee Reliable System iniwaty PDF On-Road and Aerial Vehicle Carriers For 0: A Literature Review PDF efuelling Stations on Android Based PDF	012018 012019 012020
Comparative Ana Quality of Service T Ernawati and B D II + Open abstract OPEN ACCESS Study of Risk Ass to Digital Archivin Yeffry Handoko Putra + Open abstract OPEN ACCESS Model of Autonor Precision Agricult I Afrianto, A Khumaid + Open abstract OPEN ACCESS Location Search Mobile Devices S Nurhayati, N Milal + Open abstract OPEN ACCESS Web-Based Hono N Hasti, D Dekiki, I G + Open abstract	Pratama View article Sessment and Bug Process in ord a and Rahma Wahd View article Town article Application for R and A P Sujana View article Town article	Case Study West Bandung Regency Tourisi PDF Isiness Continuity Management of Analog ler to Guarantee Reliable System iniwaty PDF On-Road and Aerial Vehicle Carriers For 0: A Literature Review PDF efuelling Stations on Android Based PDF yroll Information System in and T Hartono PDF	012018 012019 012020
Comparative Ana Quality of Service T Ernawati and B D II + Open abstract OPEN ACCESS Study of Risk Ass to Digital Archivin Yeffry Handoko Putra + Open abstract OPEN ACCESS Model of Autonor Precision Agricult I Afrianto, A Khumaid + Open abstract OPEN ACCESS Location Search Mobile Devices S Nurhayati, N Milal + Open abstract OPEN ACCESS Web-Based Hono N Hasti, D Dekiki, I G + Open abstract OPEN ACCESS Raspberry Pi-Bas Raspberry Pi-Bas	Pratama View article Sessment and Burg Process in ord a and Rahma Wahd View article To view article To view article To view article To view article Application for Rahma A P Sujana View article To view article	Case Study West Bandung Regency Tourisi PDF Isiness Continuity Management of Analog ler to Guarantee Reliable System iniwaty PDF On-Road and Aerial Vehicle Carriers For 0: A Literature Review PDF efuelling Stations on Android Based PDF yroll Information System in and T Hartono PDF	012017 m Area) 012018 012019 012020 012022
Comparative Ana Quality of Service T Ernawati and B D II + Open abstract OPEN ACCESS Study of Risk Ass to Digital Archivin Yeffry Handoko Putra + Open abstract OPEN ACCESS Model of Autonor Precision Agricult I Afrianto, A Khumaid + Open abstract OPEN ACCESS Location Search Mobile Devices S Nurhayati, N Milal + Open abstract OPEN ACCESS Web-Based Hono N Hasti, D Dekiki, I O + Open abstract OPEN ACCESS Raspberry Pi-Bas M F Wicaksono, Sya	Pratama View article Sessment and Bug Process in ord a and Rahma Wahd View article Transport 4. di and Adriyendi View article Application for R and A P Sujana View article Orary Teacher Pag Gustiana, W Wahyur View article Seed Solar System shrul, M D Rahmatya	Case Study West Bandung Regency Tourisi PDF Isiness Continuity Management of Analog ler to Guarantee Reliable System iniwaty PDF On-Road and Aerial Vehicle Carriers For 0: A Literature Review PDF efuelling Stations on Android Based PDF yroll Information System in and T Hartono PDF	012018 012019 012020
Comparative Ana Quality of Service T Ernawati and B D II + Open abstract OPEN ACCESS Study of Risk Ass to Digital Archivin Yeffry Handoko Putra + Open abstract OPEN ACCESS Model of Autonor Precision Agricult I Afrianto, A Khumaid + Open abstract OPEN ACCESS Location Search Mobile Devices S Nurhayati, N Milal + Open abstract OPEN ACCESS Web-Based Hono N Hasti, D Dekiki, I G + Open abstract OPEN ACCESS Raspberry Pi-Bas Raspberry Pi-Bas	Pratama View article Sessment and Burg Process in ord a and Rahma Wahd View article To view article To view article To view article To view article Application for Rahma A P Sujana View article To view article	Case Study West Bandung Regency Tourisi PDF Isiness Continuity Management of Analog ler to Guarantee Reliable System iniwaty PDF On-Road and Aerial Vehicle Carriers For 0: A Literature Review PDF efuelling Stations on Android Based PDF yroll Information System in and T Hartono PDF	012018 012019 012020
Comparative Ana Quality of Service T Ernawati and B D II + Open abstract OPEN ACCESS Study of Risk Ass to Digital Archivin Yeffry Handoko Putri + Open abstract OPEN ACCESS Model of Autonor Precision Agricult I Afrianto, A Khumaid + Open abstract OPEN ACCESS Location Search Mobile Devices S Nurhayati, N Milal + Open abstract OPEN ACCESS Web-Based Hono N Hasti, D Dekiki, I O + Open abstract OPEN ACCESS Raspberry Pi-Bas M F Wicaksono, Sya + Open abstract	Pratama Tylew article sessment and Bug Process in ord a and Rahma Wahd Tylew article mous Unmanned tural Transport 4. di and Adriyendi Tylew article Application for R and A P Sujana Tylew article orary Teacher Pag Gustiana, W Wahyur Tylew article sed Solar System shrul, M D Rahmatya Tylew article	Case Study West Bandung Regency Tourisi PDF Isiness Continuity Management of Analog ler to Guarantee Reliable System iniwaty PDF On-Road and Aerial Vehicle Carriers For 0: A Literature Review PDF efuelling Stations on Android Based PDF yroll Information System and T Hartono PDF Learning Media and M A F Rahman PDF	012018 012019 012020
Comparative Ana Quality of Service T Ernawati and B D II + Open abstract OPEN ACCESS Study of Risk Ass to Digital Archivin Yeffry Handoko Putra + Open abstract OPEN ACCESS Model of Autonor Precision Agricult I Afrianto, A Khumaid + Open abstract OPEN ACCESS Location Search Mobile Devices S Nurhayati, N Milal + Open abstract OPEN ACCESS Web-Based Hono N Hasti, D Dekiki, I O + Open abstract OPEN ACCESS Raspberry Pi-Bas M F Wicaksono, Sya + Open abstract	Pratama View article Sessment and Bug Process in ord a and Rahma Wahd View article Transport 4. di and Adriyendi View article Application for Rand A P Sujana View article Orany Teacher Pagastiana, W Wahyur View article Seed Solar System shrul, M D Rahmatya View article Seed Solar System shrul, M D Rahmatya View article Seed Solar System shrul, M D Rahmatya View article	Case Study West Bandung Regency Tourisi PDF Isiness Continuity Management of Analog ler to Guarantee Reliable System iniwaty PDF On-Road and Aerial Vehicle Carriers For 0: A Literature Review PDF efuelling Stations on Android Based PDF yroll Information System and T Hartono PDF Learning Media a and M A F Rahman PDF	012019 012020 012021

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L Melian and F N Fa	iuzan		
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OPEN ACCESS	em of Roof Tiles F	Production and Distribution	012025
R F Syafariani, E N I	Hayati and F A Mutta	asir	
+ Open abstract	■ View article	₹ PDF	
to Determine Pro		le and Effects Analysis (FMEA) Method	012026
S Atin and R Lubis			
+ Open abstract	View article	[™] PDF	
OPEN ACCESS Design Securing Network Layers	Online Payment	Transactions Using Stegblock Through	012027
E Ardhianto, A Trise	tyarso, W Suparta, B	S Abbas and C H Kang	
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OPEN ACCESS Protecting Data I	By Socket Progra	mming Steganography	012028
WT Handoko, E Ard	hianto, K Hadiono ar	nd FA Sutanto	
+ Open abstract	View article	™ PDF	
OPEN ACCESS			012029
Integration of TO	ırism Domain with	Enterprise Architecture Smart City n ISO 27001	012029
+ Open abstract	View article	[™] PDF	
on OBD-II: A Lite	rature Survey	ting Method of Driving Behavior Based	012030
Galih Hermawan an	d Emir Husni		
+ Open abstract	View article	PDF	
OPEN ACCESS Web Application box Testing	Vulnerability Dete	ection Using Taint Analysis and Black-	012031
Heribertus Yuliantor	n, Agung Trisetyarso,	Wayan Suparta, Bahtiar Saleh Abbas and Chul He	o Kang
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Certainty Conditi		r Dental and Oral Diseases Diagnose in	012033
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Leonardi Paris Hasu	igian, Satria Indra Pr	aja Persada and Triana Mugia Rahayu	
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OPEN ACCESS Benefit of Using O Strategy and Cos R A Putra, G D Putra + Open abstract OPEN ACCESS A Brief Look at S Benefits and Cop M R Adrian, D H Kur + Open abstract OPEN ACCESS Information Syste Framework and II G G Prapenan and O + Open abstract OPEN ACCESS Raw Material Sup	Cloud Services in the Efficiency Aspea, a, N F Arifin, B Harya View article oftware Defined Noting with the Chall miawan, A Faza, J M Town writcle of Security Analy SO 27001:2013 G C Pamuji View article	IT Infrastructure in the Capability, icts: detikNetwork Case Study anto, M R Shihab and B Ranti PDF Network (SDN) Implementation: Gaining lenges at a Telecommunication Company laulina and M R Shihab PDF vsis of XYZ Company Using COBIT 5	012046
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OPEN ACCESS Benefit of Using (Strategy and Cos R A Putra, G D Putra	Cloud Services in at Efficiency Aspe a, N F Arifin, B Harya	IT Infrastructure in the Capability, cts: detikNetwork Case Study into, M R Shihab and B Ranti	012045
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OPEN ACCESS			012045
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	View article	PDF	
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• Open austract	view ailicie	<u>د</u> ، با	
+ Open abstract	Geraldi Catur Pamu	iji 🔁 PDF	
-		ion (Internet of Things) on Smart Home	
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Page 10 of 15

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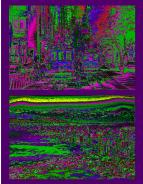
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IOP Conf. Series: Materials Science and Engineering 879 (2020) 012105 doi:10.1088/1757-899X/879/1/012105

Design and Implementation of Doorcam in Home System using Raspberry Pi

S I Lestariningati

Computer Engineering, Faculty of Engineering and Computer Science, Universitas Komputer Indonesia, Jl. Dipati Ukur No.112-116 Bandung 40132

Email: susmini.indriani@email.unikom.ac.id

Abstract. This paper discusses how to develop a doorcam system that is implemented at home at an affordable price. The system was built using a Mini PC Raspberry Pi, and a Pi camera to obtain an affordable price for the doorcam system implementation. The results of tests that have been carried out were the system had succeeded in notifying the homeowner when there were guests who were visiting the house. The system will send a notification message and display the image captured by Pi camera via the Telegram application when the guest press bell button. The system worked with delay below 5 seconds. This system can work well when done during the daytime, because the Pi camera used is not equipped with lights, so the captured images that are sent cannot show guests coming to visit in front of the house.

1. Introduction

Internet of Things (IoT) can be described as connecting devices used daily such as computers in the form of PCs, laptops, tablets, smart phones, televisions, sensors and actuators to the Internet where devices are connected intelligently forming communication between things and humans [1]. The current implementation of IoT such as smart home has been widely implemented. The development of this technology is to add a doorcam system feature that can make it easier for homeowners to know guests who visit their homes, both when they are at home or outside. But not everyone uses this feature because the price of the system is not affordable [2].

Mini PC such as Raspberry Pi in designing a doorcam system to produce a systems for an affordable price can be a solution. The selection of Raspberry Pi is due to its cheap price, low power consumption, and the availability of open source software in developing applications [3][4]. The advantage of Raspberry Pi is that this small computer has been widely implemented in the development of IoT technology, because apart from its reliable device and has a discussion community that is easily found on the Internet [5].

The purpose of designing and implementing this system is to produce a doorcam system at an affordable price that can be utilized in all homes and homeowners can have a safe comfort in their house because they know guests who come to their homes before answering and opening their doors.

2. Method

Smart system and IoT are driven by combination of three things: sensors and/or actuators, connectivity and people/process. The components as illustrated in the Figure 1.

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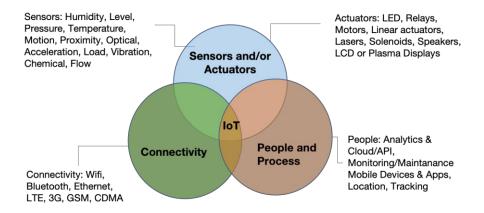


Figure 1. IoT Component

The components explanation:

- Sensors: The object is able to extract various data from its environment such as humidity, level, pressure, temperature, motion, proximitym optical, acceleration, load, vibration, chemical, flow [6].
- Actuators: The object is able to act within its environment: emit light, make sound, push button, etc.
- Connectivity: The embedded system can use a range of connectivity to connect with other devices or the Internet. Some of example are such as wifi, Bluetooth, Ethernet, LTE, 3G, GSM, CDMA, etc[7].
- People and process: The information transmitted via the chosen connectivity can be used by people and processes to take action.

3. Results and Discussion

Figure 2 depicted the illustration of doorcam system. The doorcam system working with the following steps: when guests arrive and visite the house, they will press the bell button on the Raspi LCD display where it is usually put near to the door or gate. Then, system will start taking pictures using Pi's camera and then the system will send picture and text messages to the homeowner through Telegram application that has been installed on the homeowner's smartphone. From the Telegram application, the homeowner can send a message back whether he wants to meet immediately or not. The reply message will appear on the LCD screen that can be seen by the guest.

Homeowners can find out who is coming to their house whether they are inside or outside the house. Guests can also leave voice messages recorded by the system, and the message is sent via the telegram application.

IoT components used in this system are actuators in the form of LCD screens, connections using wifi technology, and people who use this system are guests and homeowners using their smartphones to be able communicate with the system. Hardware specification for this system described on Table 1.

IOP Conf. Series: Materials Science and Engineering 879 (2020) 012105 doi:10.1088/1757-899X/879/1/012105

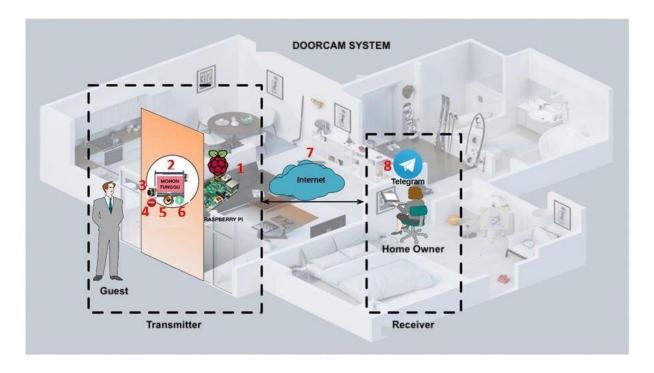


Figure 2. Doorcam System Illustration

Table 1. Hardware Specification

	-
Item	Specification
Mini PC	Raspberry Pi 3 Model B+
Camera	Pi Camera
Display	Raspberry Pi LCD

Figure 3 depicted the interface on LCD monitor telling guest to push the button to inform the homeowner. While the guest waits in front of the door, the system sends message to homeowner. Figure 4 displays the message from homeowner. If the homeowner is not at home, the system will enable the button "Kirim Pesan Suara", so the guest can start to record voice message for 7 seconds, and then the system sends the message through Telegram application. Figure 5 depicts notifications on Telegram application.

The test result shows the average delay of this system is below 5 seconds. This total delay counts from the system received instruction to captured image untill the message arrived on smartphone. This system will be able to produce maximum output if this system is used before sunset, where there is still good lighting. This is because the desired system is that the system can transmit data with a minimum delay, so a small pixel camera is chosen but is still good enough to display recognizable faces. the drawback is that when this system is used at night, the image sent will be a black image because when it does not get good lighting.

We can use a better camera than a Pi camera with a more expensive price. This can be adjusted to the existing budget conditions. If it is compared to the doorcam on the market, it usually costs more than IDR 2,000,000 with a camera that is equipped with night vision, while this system can cost only under IDR 1,000,000.

IOP Conf. Series: Materials Science and Engineering **879** (2020) 012105 doi:10.1088/1757-899X/879/1/012105



Figure 3. The Interface on LCD Monitor Telling Guest to Push the Button to Inform the Homeowner.



Figure 4. System Display the Message from Homeowner

IOP Conf. Series: Materials Science and Engineering 879 (2020) 012105 doi:10.1088/1757-899X/879/1/012105



Figure 5. Notification on Telegram Application

4. Conclussion

From the test result that has been done, the doorcam system that was designed has succeeded in notifying the home owner when there are guests who are visiting. The drawbacks of this system images has noise due to the lighting factor when taking pictures, especially at night. Moreover, the system still suffer from delay below 5 seconds. Future work is to replace the camera that has infrared, and reducing the complexity of algorithm so that the system can work faster and efficient.

Acknowledgment

Author likes to thanks to assistant at Data Communication Laboratory especially to Bayu, Silvia and Yusran for helping author with this research.

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