Rakan Keselamatan UTeM (RKU)

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UNIVERSITI TEKNIKAL MALAYSIA MELAKA

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Rakan Keselamatan UTeM (RKU)

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This Report Is Submitted In Partial Fulfilment Of The Requirement For The Bachelor Of Computer Science (Software Development)

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
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ABSTRACT

This project will study the usage and significance of Message Service in Android's Smartphone as the main medium for sending and receiving report or feedback among the UTeM's community. The goal is to assist the students or staffs to place incident report that happened in the UTeM campus directly to Security Department for immediate action. This paper will cover the project's background, objectives, analysis and design as well as the project implementation. The results would be used by the Security Department to improve their work performances and competency toward the campus safety and comfortable to study and living.

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ABSTRAK

Projek yang dibangunkan ini merangkumi kajian kegunaan dan signifikasi penggunaan mesej dalam telefon pintar Android sebagai medium utama dalam penghantaran dan penerimaan laporan kecemasan atau maklum balas di antara ahli komuniti UTeM. Tujuan utama projek ini dibangunkan adalah untuk membantu para pelajar dan staff untuk membuat laporan kecemasan yang berlaku sekitar kawasan kampus UTeM secara terus kepada Unit Keselamatan Universiti untuk tindakan lanjut. Kajian ini meliputi latar belakang projek, objektif, analisis dan rekabentuk serta implimentasi projek. Hasil projek akan digunakan oleh Unit Keselamatan Universiti untuk meningkatkan mutu prestasi kerja serta tahap kompetensi demi menjamin tahap keselamatan dan keselesaan warga UTeM sama ada untuk belajar mahupun menetap di kampus.

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TABLE OF CONTENTS

CHAPTER	SUBJECT	PAGE
	DECLARATION	ii
	ACKNOWLEDGEMENTS	iii
	ABSTRACT	iv
	ABSTRAK	v
	TABLE OF CONTENTS	vi
	LIST OF FIGURE	xiii
	LIST OF TABLE	xvi
CHAPTER I	**INTRODUCTION**	1
	1.1 Project Background	1
	1.2 Problem Statements	2
	1.3 Objective	3
	1.4 Scope	4
	1.5 Project Significance	6
	1.6 Expected Output	6
	1.7 Conclusion	7
CHAPTER II	**LITERATURE REVIEW AND PROJECT METHODOLOGY**	8

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	2.1 Introduction	8
	2.2 Domain	9
	2.3 Existing System	10
	2.3.1 Report Malaysia Taxi	10
	2.3.2 RakanCop	13
	2.3.3 Comparison	16
	2.3.4 Android	17
	2.3.5 Location Based Service	21
	2.3.6 Malaysia Android User Statistic	22
	2.4 Project Methodology	23
	2.4.1 Extreme Programming Methodology	24
	2.5 Project Requirements	26
	2.5.1 Software Requirements	26
	2.5.2 Hardware Requirements	26
	2.6 Project Schedule and Milestones	27
	2.7 Conclusion	28
CHAPTER III	**ANALYSIS**	29
	3.1 Introduction	29
	3.2 Problem Analysis	29
	3.3 Requirement Analysis	30
	3.3.1 Introduction	30
	3.3.2 Identification	31

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	3.3.3 Purpose	31
	3.3.4 Scope	31
	3.3.5 Stakeholder and User Description	31
	3.3.6 Business Flow	32
	3.3.7 Summary Of Functional Requirements	32
	3.3.8 Functional Requirements	33
	3.3.9 RKU Functional Requirements	33
	3.3.10 RKU Non-Functional Requirements	49
	3.3.11 Business Flow Diagrams	51
	3.3.12 Sequence Diagram	57
	3.3.13 Software Requirement	62
	3.3.14 Hardware Requirement	63
	3.3.15 Network Requirement	63
	3.4 Conclusion	64
CHAPTER IV	**DESIGN**	65
	4.1 Introduction	65
	4.2 High Level Design	66
	4.2.1 System Architecture	66
	4.2.2 User Interface Design	68
	4.2.2.2 Navigation Design for RKU Server	68
	4.2.2.2 Navigation Design for RKU Android Application	69
	4.2.2.3 Input Design for RKU Server	70

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	4.2.2.4 Input Design for Android Application	73
	4.2.2.2.1 Interface Design Of Main Organization	73
	4.2.3 Database Design	76
	4.3 Detailed Design	78
	4.3.1 Physical Database Design	78
	4.4 Conclusion	80
CHAPTER V	**IMPLEMENTATION**	81
	5.1 Introduction	81
	5.2 Software Development Environment setup	82
	5.3 Software Configuration Management	84
	5.3.1 Configuration environment setup	84
	5.3.1.1 Installation of Software/IDE	82
	5.3.1.2 Import/Copy needed folder and database	85
	5.3.2 Version Control Procedure	91
	5.4 Implementation Status	95
	5.5 Conclusion	97
CHAPTER VI	**TESTING**	98
	6.1 Introduction	98
	6.2 Test Plan	98
	6.2.1 Test Organization	99

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	6.2.2 Test Environment	99
	6.2.3 Test Schedule	100
	6.3 Test Strategy	101
	6.3.1 Classes of tests	101
	6.4 Test Design	103
	6.4.1 Test Description	103
	6.4.2 Test Data	104
	6.5 Test Results and Analysis	107
	6.5.1 Functional Testing Result	108
	6.5.2 Usability Testing Result	110
	6.5.3 User Acceptance Test Result	120
	6.6 Conclusion	125
CHAPTER VII	**PROJECT CONCLUSION**	126
	7.1 Observation on Weaknesses and Strengths	126
	7.2 Proposition for Improvement	129
	7.4 Conclusion	131
REFERENCES		133

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LIST OF FIGURE

FIGURE	TITLE	PAGE
Figure 2.1	Diagram show the main page of Report Malaysia Taxi	11
Figure 2.2	Figure show the report that can be send to the specific department by email	12
Figure 2.3	Figure show the phone number to message	14
Figure 2.4	Figure show the IPK state code to message reference and format to type SMS the report is	14
Figure 2.5	Figure show the registration process for the rakancop member	15
Figure 2.6	Figure show the registration process for the rakancop member	
Figure 2.7	Figure show the registration process for the rakancop member	19
Figure 2.8	Figure show the statistic of the mobile operating system that use From Jun 2011 to 2012	22
Figure 2.9	Project Methodology Extreme Programming	24
Figure 2.10	Project Schedule and Milestones	27
Figure 3.1	Use Case Diagram for RKU	35
Figure 3.2	Login Sketch Interface	37
Figure 3.3	Manage User Sketch Interface	39
Figure 3.4	Location's Report Sketch Interface	40
Figure 3.5	Read Report Sketch Interface	42
Figure 3.6	Send Report Sketch Interface	44
Figure 3.7	Send Feedback Sketch Interface	45
Figure 3.8	Delete Report Sketch Interface	47
Figure 3.9	Receive Feedback Sketch Interface	48
Figure 3.10	RKU Server administrator activity diagram	51

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Figure 3.11	RKU Server director activity diagram	52
Figure 3.12	RKU Server supervisor activity diagram	53
Figure 3.13	RKU Server Security activity diagram	55
Figure 3.14	RKU Application UTeM's Community activity diagram	56
Figure 3.15	RKU Sequence Diagram (Sending & Read Report)	57
Figure 3.16	Sequence Diagram (Sending & Receiving Feedback)	58
Figure 3.17	RKU Sequence Diagram (Delete Report)	58
Figure 3.18	RKU Sequence Diagram (Login & Logout)	59
Figure 3.19	RKU Sequence Diagram (View Location's Report)	60
Figure 3.20	RKU Sequence Diagram (Manage User)	61
Figure 4.1	The Architecture of RKU	66
Figure 4.2	Navigation Design for RKU Server	68
Figure 4.3	Navigation Design for RKU Android Application	69
Figure 4.4	ER-Diagram for RKU Server	76
Figure 4.5	ER-Diagram for RKU Android Application	77
Figure 4.6	Physical design for location table	78
Figure 4.7	Physical design for picture table	78
Figure 4.8	Physical design for report chat table	79
Figure 4.9	Physical design for report sms in table	79
Figure 4.10	Physical design for report sms out table	79
Figure 4.11	Physical design for user table	80
Figure 4.12	Physical design for user table	80
Figure 5.1	Deployment diagram of RKU	83
Figure 6.1	Usability Testing on RKU Android for Task 1, Send Report	110
Figure 6.2	Usability Testing on RKU Android for Task 2, Send Report with picture	111
Figure 6.3	Usability Testing on RKU Android for Task 3,	111

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	Reply feedback	
Figure 6.4	Usability Testing on RKU Android for Task 4, Delete report	112
Figure 6.5	Usability Testing on RKU Android for Task 5, View Report Information	112
Figure 6.6	Usability Testing on RKU Server for Task 1, Log in to system	113
Figure 6.7	Usability Testing on RKU Server for Task 2, Logout from system	113
Figure 6.8	Usability Testing on RKU Server for Task 3, Open a report	114
Figure 6.9	Usability Testing on RKU Server for Task 4, Reply report with message	114
Figure 6.10	Usability Testing on RKU Server for Task 5, Identify location	115
Figure 6.11	Usability Testing on RKU Android, Usefulness 3 Questions	116
Figure 6.12	Usability Testing on RKU Android, Ease of use 3 Questions	117
Figure 6.13	Usability Testing on RKU Android, Ease of learning 3 Questions	117
Figure 6.14	Usability Testing on RKU Android, Satisfaction 3 Questions	118
Figure 6.15	Usability Testing on RKU Server, Usefulness 3 Questions	118
Figure 6.16	Usability Testing on RKU Server, Ease of Use 3 Questions	119
Figure 6.17	Usability Testing on RKU Server, Ease of learning 3 Questions	119
Figure 6.18	Usability Testing on RKU Server, Satisfaction 2 Questions	120
Figure 6.19	User Acceptance Testing on RKU Android Application, Usability 2 Questions	121
Figure 6.20	User Acceptance Testing on RKU Android	121

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	Application, Reliability 2 Questions 1	
Figure 6.21	User Acceptance Testing on RKU Android Application, Security 1 Questions	122
Figure 6.22	User Acceptance Testing on RKU Android Application, Performance 2 Questions 3	122
Figure 6.23	User Acceptance Testing on RKU Server, Usability 2 Questions	123
Figure 6.24	User Acceptance Testing on RKU Server, Reliability 2 Questions	124
Figure 6.25	User Acceptance Testing on RKU Server, Security 1 Questions	124
Figure 6.26	User Acceptance Testing on RKU Server, Performance 2 Questions	125

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LIST OF TABLE

TABLE	TITLE	PAGE
Table 2.1	The comparison between RakanCop SMS, Report-Malaysia Taxi and RKU Mobile application as the current system development	16
Table 2.2	Data collected during a 14-day period ending on March 5, 2012.	18
Table 2.3	The statistic of the mobile operating system from third Quarter 2012	23
Table 3.1	RKU Functional Requirements	28
Table 3.2	RKU Non Functional Requirements	49
Table 4.1	Admin login	70
Table 4.2	Write New Message	71
Table 4.3	Registration of user	72
Table 4.4	Input Design for Registration Form	73
Table 4.5	Input Design for Write New Report	74
Table 4.6	Input Design for Report Content Activity	75
Table 5.1	Versioning table for RKU Server	92
Table 5.2	Versioning table for RKU Application	93
Table 5.3	Implementation table for RKU Server	95
Table 5.4	Implementation table for RKU Android Application	96
Table 6.1	User Task	99
Table 6.2	Test Environment	99
Table 6.3	Test Schedule	100
Table 6.4	List of Actor and Use Case for RKU	102
Table 6.5	Example of test case and its description	103

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Table 6.6	Test data for RKU System	104
Table 6.7	Functional Result	108

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CHAPTER I

INTRODUCTION

1.1 Project Background

Rakan Keselamatan UTeM (RKU) is a security system that helps student or staff to report incident that will happen in the UTeM directly to Security Department for immediate action. Basically, RKU used Short Message Service (SMS) as main medium for sending and receiving report or feedback to the UTeM's community.

The needs for nowadays technology have forced the RKU to be developed in application form. The introduction of Smartphone to the world have changes the way of using a phone in human lifestyle. This situation causes an enhancement for the RKU's innovation. This enhancement of technology needs an application that will make the user to use more efficiently.

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This application also makes the information to be sent in variety way such as text and picture. RKU application also will makes the system will be more better approach towards student compared to SMS. This is because of the SMS charges towards the community when sending a report. Students nowadays tend towards the likes of freeware and free charged services compared to paid services. The existence of the application will makes the UTeM's community to be closer towards RKU.

1.2 Problem Statements

RKU system is a web base system that requires a user to send a report via sms. Each report will cause the community to paid up to 10 cents per reports. Thus, the community must ensure that they must have at least 10 cents of their prepaid ballance before sending a report.

The older RKU will only let UTeM's community to send text type report only. This will force the UTeM's community to explain the situation more clearly that is more text. This also cause the Security Officer to read carefully to understand the situation before sending helps.

Beside that, the application can not trace the reporting location automatically. The user need to type the location in the report sms. The system does not use the GPS coordinate tracker to detect the user location.

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To report a complaint the UTeM's community must know the Hotline numbers used by the system. If the community forgotten the number, they will not be able send the report because there is no other alternative.

1.3 Objective

The objective for developing RKU application is:

i. To enable user to send report without charges.

ii. To improve the report content by implementing the image capturing in explaining the real situation.

iii. To enable user send their location within the report.

iv. To develop the alternative way in sending report apart from using SMS.

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1.4 Scope

The scope of Rakan Keselamatan UTeM (RKU) mobile application are divided into two; User and Application. The scope will explain the availability of the user and system to perform the activity. The scope is explain below:

1.4.1 Admin:

i. Create and manage account of RKU Server user.

ii. Change username and password.

1.4.2 Director:

i. View all the report location on map.

ii. Change username and password.

1.4.3 Supervisor:

i. View and manage report records.

ii. Send feedback to community.

iii. Change username and password.

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1.4.3 Security Officer:

i. View report records.

ii. Send feedback to community.

iii. Change username and password.

1.4.4 UTeM's Community:

i. Send the report via application with 3 media of information; text, image and location

ii. Receive a feedback from Security Officer or Supervisor.

1.4.5 System:

i. The system can receive the data report from user in text and image

ii. The system can locate the location automatically by data provided in the report.

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1.5 Project Significance

RKU mobile application is an application that was developed as the alternatives ways besides the report system based on SMS that use the OZEKI technology. Moreover the system was developed to improve the older system in term of the report content with the addition of the image and location by GPS. The GPS coordinate used to determine the location of the incident. The system use the internet as medium for communication. Thus, the system is better compared to the older system because it will not charges the user when sending a report. The application is easy to get by only installing on their android Smartphone, The user also will not be charges when downloading the application..

1.6 Expected Output

The expected outputs of this application development are:

i. This application will allow the user to send the report to the server and receive by the Officer, Then the officer can give feedback.

ii. This application will allow user to send image in order to help the user to explain the real situation to the Officer.

iii. This application will give the current user location to the server when the user click the location button.

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