

SUPERVISOR'S APPROVAL

MENSTRUAL DISORDER DISCOVERER MOBILAPPLICATION USING DECISION SUPPORT SYSTEM

By

HAZWANI BINTI ALIAS

2013674398

This paper was prepared under the supervision of the project supervisor, Miss Fadzlin Binti Ahmadon. It was submitted to the Faculty of Computer and Mathematical Sciences and was accepted in partial fulfillment of the requirement for the degree of Bachelor of Computer Science (Hons).

Approved by

.....

Miss Fadzlin Binti Ahmadon

JULY 29, 2015

STUDENT'S DECLARATION

I certify that this report and the project to which it refers is the product of my own work and that any idea or quotation from the work of other people, published or otherwise are fully acknowledge in accordance with the standard referring practices of the discipline.

.....

HAZWANI BINTI ALIAS

2013674398

JULY 29, 2015

ABSTRACT

This project studies about menstrual disorder for user to be more aware about menstrual disorder. The purpose of this project is to discover the menstrual problem since woman or teenagers are not aware of their menstrual problem and lack of knowledge about menstrual problem. Hence, this project was developed in mobile application to make it more easily for user to use it. The techniques that this project used is decision support systems because it is about making the decision based on menstrual disorder symptoms. Based on the decision support systems techniques, this application used rule based system because it has uniform “if-then” structure. From this rule based that applied in this application, user will choose the symptoms and if all the symptoms that have been chosen are relates to each other, it will take an action and conclude to show the result. This application has been tested to 15 respondents which consist of 10 female and 5 male. Thus, the results show 80% of respondents agreed with the application because it makes the user more aware about the menstrual problem, and also increase the knowledgeable about type of menstrual disorder while other 20% were not agreed with the application because sometimes the results were not accurate. This application will be upgrade from time to time by adding new features so it will be more helpful in future.

Keywords: *menstrual disorder, discover, aware, decision support systems, rule based system.*

TABLE OF CONTENTS

CONTENT S	PAGE
SUPERVISOR’S APPROVAL	ii
STUDENT’S DECLARATION	iii
ACKNOWLEDGMENT	iv
ABSTRACT	v
TABLE OF CONTENT	vi
LIST OF FIGURES	ix
LIST OF TABLES	xi
CHAPTER ONE: INTRODUCTION	
1.1 Background	1
1.2 Problem Statement	2
1.3 Possible Solutions	2
1.4 Objectives	3
1.5 Scope and Limitation	3
1.6 Stake Holder	3
1.7 Significance of Project	3
CHAPTER TWO: LITERATURE REVIEW	
2.1 Menstruation	4
2.1.1 Menstrual Disorder s	4
2.2 Smart Phone	7
2.2.1 Mobile Applications	7
2.2.2 Existing Menstrual Application	8
2.3 Decision Making	9

2.3.1 Decision Making Process	9
2.4 Decision Support Systems	10
2.4.1 Intelligent Decision Support Systems	10
2.4.2 Decision Support System Approaches	10
2.4.3 Existing Systems	14
2.5 Summary	16

CHAPTER THREE: RESEARCH APPROACH AND METHODOLOGY

3.1 Introduction	17
3.2 Research Framework	17
3.2.1 Planning	18
3.2.2 Design	19
3.2.3 Develop, Testing and Evaluation	20
3.3 Hardware Software Requirements	21
3.4 Conclusion	21

CHAPTER FOUR: DESIGN AND DEVELOPMENT

4.1 Design	22
4.1.1 Rules of the symptoms	22
4.1.2 Use Case Diagram	23
4.1.3 Sequence Diagram	26
4.1.4 Data Flow Diagram	27
4.1.5 Flowchart of the Application	28
4.1.6 Algorithm Flow	29
4.1.7 Storyboard of Application	30
4.2 Development	32
4.2.1 Interface of Application	32
4.2.2 Interface Development	35

CHAPTER FIVE: RESULT AND EVALUATION