

MEASURING USER ACCEPTANCE OF INTERNET BANKING:
A SURVEY IN NORTHERN REGION OF PENINSULAR MALAYSIA.

A Thesis submitted to the Graduate School in partial fulfillment of the
requirement for the degree Master of Science (Information Technology),
Universiti Utara Malaysia

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ABSTRAK

Melalui kemudahan yang disediakan oleh Internet Banking (IB) manusia dapat melayari akaun perbankan mereka dan menjalankan urusan transaksi mereka 24 jam sehari, tujuh hari seminggu dengan mengurangkan kos dan menambahkan keselesaan pengguna. Manakala bagi pihak pengurusan bank pula dapat menggunakan peluang keemasan ini bagi memperkembangkan lagi pasaran segmen mereka di peringkat antarabangsa. Bagi kajian ini, ia mengkaji penerimaan pengguna terhadap IB di wilayah Utara Semenanjung Malaysia. Antara negeri-negeri yang terlibat termasuk Pulau Pinang, Kedah dan Perlis. Kajian ini juga menerapkan Teori Sebab dan Akibat (TRA) yang dipelopori oleh Fishbein and Ajzen pada tahun 1975 yang cuba mengetengahkan perhubungan di antara Kepercayaan, Kelakuan, Intensi dan Tingkahlaku. Berdasarkan kajian tersebut, suatu model baru telah dibuat dengan modifikasi baru agar dapat memenuhi kesesuaian bagi kajian yang dijalankan. Satu set borang soal selidik telah diperbaharui berdasarkan soal selidik masa lampau dengan dibahagikan kepada dua bahagian Ia terdiri daripada 6 soalan demografik dan 27 lagi soalan berdasarkan Skel Likert berkenaan dengan penerimaan pengguna terhadap IB. Sejumlah 400 borang soal selidik telah diagihkan kepada responden. Dari jumlah tersebut sebanyak 257 telah dapat dikumpul balik dengan peratusan 64.3% pemulangan. Daripada jumlah tersebut, sebanyak 7 soalan tidak dapat digunakan kerana terdapat kehilangan pada data-data penting. Jadi hanya sebanyak 250 soal selidik dapat diguna-pakai. Semua data yang dikumpul dianalisis dengan kaedah Pakej Statistik Sosial Sains (SPSS). Antara metod analisis yang digunakan adalah kaedah diskriptif dan ujian parametric seperti Korelasi, T-Test dan One Way ANOVA. Bagi ujian non parametric pula menggunakan kaedah Mann-Whitney U & Kruskal-Wallis. Kajian tersebut adalah untuk menguji tiga pembolehubah tidak bersandar seperti jantina, taraf umur dan tahap pendidikan dengan pembolehubah bersandar iaitu tahap penerimaan pengguna terhadap IB. Hasil kajian menemui memang terdapat hubungan signifikasi di antara pembolehubah-pembolehubah tersebut dalam mempengaruhi tahap penerimaan pengguna terhadap IB. Jadi kajian tersebut telah menolak ujian hipotesis null dan menerima hipotesis alternate. Selain itu, terdapat juga penerapan terhadap implikasi-implikasi dan kekangan-kekangan yang dihadapi dalam kajian ini yang juga akan dijelaskan dengan lebih terperinci dalam laporan penuh kajian.

ABSTRACT

Through Internet Banking (IB) people can access their bank accounts and conduct transactions 24 hours a day, seven days a week, with reduced costs and increased convenience. Meanwhile the banks have now the opportunity to expand their market penetration internationally. This paper had study about the user acceptance of Internet Banking in Northern Region of Peninsular Malaysia. The state involve in this research are Penang, Kedah and Perlis. The paper tried to adopt the Theory of Reasoned Action (TRA) which proposed by Fishbein and Ajzen in 1975 that try to establish a relationship among Beliefs, Attitudes, Intentions, and Behaviors, based on two assumptions. A modification been done to adapt with the scenario for this study and suit the local environment. A set of questionnaires been adopted from the previous research was divided into 2 section, comprised of 6 demographic information's and 27 closed-ended questions measured by Likert-Scale on IB acceptance. This research studied base on a survey method. A total of 400 of questionnaires were distributed to the respondents. At the same time it also tried to measure whether the independent variables such as gender, age group and education level have the significant relation to the dependent variable. Out of the questionnaires distributed, 257 responses were collected, yielding the return rate of 64.3%, 7 questionnaires were discarded due to missing data. Thus, only 250 (62.5%) questionnaires were usable for data analysis. All the data collected were analyzed by Statistical Package for Social Science (SPSS). Methods of analysis used in the research are descriptive and parametric test such as Correlation, T-Test and One Way ANOVA. Non-parametric test also had been applied in order to ensure the accuracy of the data analyzed Mann-Whitney U Test & Kruskal-Wallis Test. The study had found out that all the three independent variables have significant different against the internet baking acceptance usage variable. Thus, it supports the alternate hypothesis and rejected the null hypothesis. The findings of the research highlight the importance of demographic variables in the usage of IB. Hence banks can look for develop in IB that may wish to pay particular attention to these areas. The implications of the findings and the limitations of the study are further discussed for the benefit of researchers and practitioners.

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TABLE OF CONTENTS

	Page
PERMISSION TO USE	I
ABSTRACT (BAHASA MALAYSIA)	II
ABSTRACT (ENGLISH)	III
ACKNOWLEDGEMENTS	IV
LIST OF TABLES	IX
LIST OF FIGURES	X
LIST OF ABBREVIATIONS	XI
CHAPTER I: INTRODUCTION	
1.1 Introduction	1
1.2 Problem Statement	3
1.3 Research Question	5
1.4 Research Objectives	5
1.5 Theoretical Framework	5
1.6 Significance of the Study	7
1.7 Research Scope	8
1.8 Organization of Study	8
CHAPTER II: LITERATURE REVIEW	
2.1 Introduction	9
2.2 Internet Banking World	11
2.21 Introduction	11

2.22	The Rationale for Banks Using Internet Banking	16
2.3	The Internet Banking Strategy	19
2.4	Internet Banking in Malaysia	21
2.4.1	Wireless Application Protocol (WAP) Banking	23
2.5	Acceptance of Internet Banking	24
2.5.1	Age	27
2.5.2	Gender	28
2.5.3	Education Level	29
2.6	Research Hypotheses	29
CHAPTER III: METHODOLOGY		
3.1	Introduction	31
3.2	Research Design	32
3.3	Research Location	32
3.4	Research Subject	32
3.5	Questionnaires Structure	34
3.6	Techniques of Data Collection	35
3.6.1	Secondary Data	35
3.6.2	Primary Data	35
3.7	Pilot Study	36
3.8	Research Reliability and Validity	36
3.8.1	Reliability	36
3.8.2	Validity	37
3.9	Data Analysis	37
3.9.1	Parametric Test	37

3.9.1.1	Correlation test	38
3.9.1.2	Analysis of variance (One Way ANOVA)	38
3.9.1.3	T-test	38
3.9.2	Non Parametric Test	39
3.9.2.1	Mann-Whitney U Test	39
3.9.2.2	Kruskal-Wallis Test	39

CHAPTER IV: DATA ANALYSIS AND DISCUSSION

4.1	Introduction	41
4.2	Demographic Analysis	42
4.2.1	State	42
4.2.2	Gender	42
4.2.3	Age of Group	43
4.2.4	Education Level	43
4.2.5	Income Level	44
4.2.6	Occupation	44
4.3	Correlations Relation among the Variables	45
4.3.1	Correlations Relation of Gender Variable and User Acceptance Variable	45
4.3.2	Correlations Relation of Age Variable and User Acceptance Variable	46
4.3.3	Correlations Relation of Education Variable and And User Acceptance Variable	46
4.4	Hypothesis Testing	47
4.4.1	Parametric Test	47

4.4.1.1	Tested results of the First Hypothesis	47
4.1.1.2	Tested results of the Second Hypothesis	48
4.1.1.3	Tested results of the Third Hypothesis	49
4.4.2	Non-Parametric Test	50
4.4.2.1	Tested results of the First Hypothesis	50
4.4.2.2	Tested results of the Second Hypothesis	51
4.2.2.3	Tested results of the Third Hypothesis	52
4.5	Conclusion	53

CHAPTER V: DISCUSSION AND CONCLUSION

5.1	Introduction	54
5.2	The Impact of Independent Variables on Acceptance of Internet Banking	55
5.2.1	The Impact of Gender on Acceptance of Internet Banking	55
5.2.2	The Impact of Age of Group on Acceptance of Internet Banking	55
5.2.3	The Impact of Education Level on Acceptance of Internet Banking	56
5.3	Recommendation	57
5.4	Implication of the Research	58
5.5	Limitation of the Research	58
5.6	Suggestion for Future Research	58
5.7	Conclusion	59

BIBLIOGRAPHY

Appendix A: Questionnaires

LIST OF TABLES

	Title	Page
Table 2.1	The IB websites in Malaysia	23
Table 2.2	WAP application in Malaysia	24
Table 3.1	Number of research subjects	34
Table 4.1	Number of questionnaires collected	42
Table 4.2	State of the Respondents	43
Table 4.3	Gender of the Respondents	43
Table 4.4	Age Group of the Respondents	44
Table 4.5	Education Level of the Respondents	44
Table 4.6	Income level of the Respondents	45
Table 4.7	Occupation of the Respondents	45
Table 4.8	Correlations Test (Gender)	46
Table 4.9	Correlations Test (Age of Group)	47
Table 4.10	Correlations Test (Education Level)	48
Table 4.11	Group Statistics for Gender (T-Test)	49
Table 4.12	One way ANOVA - Age Variable	50
Table 4.13	One way ANOVA - Education Level Variable	51
Table 4.14	Mann-Whitney Test	52
Table 4.15	Kruskal-Wallis Test - Age of Group	52
Table 4.16	Kruskal-Wallis Test - Education Level	53

LIST OF FIGURES

	Title	Page
Figure 1.1	Theory of Reasoned Action	6
Figure 1.2	Modified Theory of Reasoned Action	7
Figure 2.1	The evolution of the banks' Web presence	14
Figure 2.2	The relation between cost and Web site complexity in Internet Banking	15
Figure 2.3	The evolution of customers' structure considering the Distribution Channels used by the banks (%)	16
Figure 3.1	The Methodology Process of Internet Banking	32

LIST OF ABBREVIATIONS

ATM	Automated Teller Machine
BAI	Banking Administration Institute
EDU	Education
IB	Internet Banking
MBB	Maybank Berhad
OCBC	Oversea Chinese Banking Corporation
PC	Personal Computer
SPSS	Statistical Package for Social Science
TRA	Theory of Reasoned Action
UK	United Kingdom
UOB	United Oversea Bank
US	United States
WAP	Wireless Application Protocol

CHAPTER I

INTRODUCTION

1.1 Introduction

Using the Internet, or a direct connection through modem, people can access their bank accounts and conduct transactions 24 hours a day, seven days a week, with reduced costs and increased convenience. On the other hand, due to the explosive development of the digital environment, the banks have now the opportunity to expand their market penetration internationally. A study completed by Datamonitor estimates that, at the end of the year 2003, 10 per cent of the world population (approximately 545 million people) will have Internet access (Guraau, 2002). Taking advantage of this favorable situation, many financial institutions have launched corporate Web sites, offering personalized online services.

Online banking provides customers with the ability to access almost any type of banking transaction, with the exception of cash withdrawals at the click of a mouse, in the comfort of their own home or office. This accessibility is thought to be one of the key

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