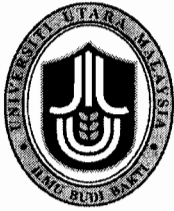


**DEVELOPMENT OF A WEB-BASED INFORMATION SHARING  
SYSTEM FOR CHRONIC DISEASE PATIENT IN PALESTINIAN  
MINISTRY OF HEALTH**

**SUHAIL S.M.ALQRINAWI**

**UNIVERSITI UTARA MALAYSIA 2011**



**KOLEJ SASTERA DAN SAINS  
(College of Arts and Sciences)  
Universiti Utara Malaysia**

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Nama Penyelia  
(Name of Supervisor) : **DR. ABDUL JALEEL KHINDE SHITTU**

Tandatangan  
(Signature) :  Tarikh (Date) : 05-05-2011

Nama Penilai  
(Name of Evaluator) : **MRS. ALAWIYAH ABD WAHAB**

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## ABSTRACT

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*Sharing information between organization and companies plays important roles in achieving good performance. When the organization or companies want to share any type of data especially the personal and health information, such information or data are available in the hospital for sharing. The information sharing has categories like the data maintainance for privacy, value and validity. This study focuses on investigating the existing approach of sharing and retrieving patient information and to develop prototype to make electronic health record more easy to access.. A web-application prototype was developed using ASP.NET SQL Server2005 for sharing patients' information. Finally, the users' satisfaction of the developed prototype was measured using IBM Computer Usability Satisfaction Questionnaires.*

## DEDICATION

---

*I humbly thank Allah Almighty, the Merciful and the Beneficent, who gave me health, thoughts and co-operative people to enable me achieve this goal.*

*I wish to dedicate this work to Holy Prophet Muhammad (Peace be upon him) and his companions who laid the foundations of Modern civilization and paved the way for social, moral, political, economical, cultural and physical revolution.*

*I would like to thank and extend my deep gratitude to my supervisor Dr AbdulJaleel K, Shittu. I was extremely fortunate to have him as my primary source of knowledge, guidance, and support throughout the process of my project, and I would certainly be even more fortunate to benefit for his wide experience in my future academic undertakings. In short, this work could not have been accomplished without his enlightenment. Thank you very much.*

*Special thank to those who supported me with their prayers particularly my mother, aunt, uncle "Ahmad", my cousin "Ousama-abuahmad" and all of my brothers and sisters. I would like also to thank my friends in my homeland Palestine and also in Malaysia all by his name. I won't forget to dedicate this work to the soul of my father may ALLAH bless his soul and make his grave a garden and grant him the highest levels of paradise... Ameen.*

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---

*At the beginning of my speaking, I thank Allah for helping me in my study and guiding me to continue what I have started in my educational life. I thank Allah in every day for giving me the ability and motivation to continue this work.*

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2011

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## **LIST OF ACRONYMS**

<b>WISCDPPMH</b>	<b>Web Information Sharing System for Chronich disease Patient in Palestinian Ministry Of Health</b>
<b>EHR</b>	<b>Health Electronic Record</b>
<b>UML</b>	<b>Unified Modeling Language</b>
<b>PDS</b>	<b>Poket Doctor System</b>
<b>CSUQ</b>	<b>Computer System Usability Questionnaire</b>
<b>PVV</b>	<b>Privacy, Validaty and Value</b>

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# CHAPTER ONE

## INTRODUCTION

### 1.1 Background

Nowadays, the fast advancement and development on technology have made a new conduit between government and their citizens. This conduit allows the government to offer its services by web services. This is known as the Electronic government or “E-Government” (Kushchu, 2007). Information sharing system is defined as methods of care management and training aim at developing a know-how information sharing system (Eto, Matsui & Kabasawa, 2007).

Hospitals and physicians alike have been moving to develop the efficiencies offered by information technology. Most hospitals today have some form of medical information system, and a majority of general physicians have adopted computerized medical record. But many hospitals still lack a central patient online medical record system that includes comprehensive, up-to-the-minute treatment information on admitted patients. Instead, patients’ data are scattered across multiple record and are accessible only within each institution.

Electronic Government is the government that provides services available online for its citizens and users through electronic device such as computers, mobiles, wireless and other devices that have access to the internet (Fang & Chen, 2008). Internet and wireless devices are becoming preferable by government to deliver their services to their citizen

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only



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