

**DEVELOPMENT OF TELERESEARCH MODEL  
USING OPEN SOURCE SOFTWARE**

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**UNIVERSITI UTARA MALAYSIA**

**2008**

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2008

**DEVELOPMENT OF TELERESEARCH MODEL  
USING OPEN SOURCE SOFTWARE**

A Thesis submitted to the graduate School in partial  
Fulfillment of the requirement for the degree  
Master in Information Technology  
Universiti Utara Malaysia

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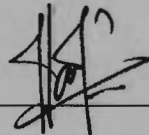
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## Abstracts

*The importance of Video media for communications and entertainment has been a problem for many decades. Initially video was captured and transmitted in analog form. Video compression became an important area of research in the late 1980's and 1990's and enabled a variety of applications including video storage on DVD's and Video-CD's, video broadcast over digital cable, satellite and terrestrial (over-the-air) digital television (DTV), video conferencing and videophone over circuit-switched networks. The growth and popularity of the Internet in the mid-1990's motivated video communication over best-effort packet networks.*

*The report identifies the gaps between the capabilities of currently deployed systems and the user requirements, and proposes further work centered on the intranet (local Area Network) and World-Wide Web system to develop the teleresearch tools by using open source software. Considering the expensive budget allocation is required to develop the teleresearch tool, this project proposed a development of the teleresearch tools using open source software which freely available in the internet for University researchers usability. In addition, the open source software also gives flexibility to modify the source codes according to user's need with better security solution.*

*This report shows, how the Teleresearch is been developed by using most of the open source tools which freely downloaded from internet. The manipulation freedom in changing the source code to gather with the interface modifications, gives us a maximum freedom to develop the teleresearch as per the organization needs. The main contribution of the Teleresearch is giving a great opportunist to all the researchers in Allianze College of Medical and Science (ACMS) to use this software as most important communication tool in order to conduct their research. However, there is a limitation in teleresearch model which inadequate with the bandwidth to retrieve streamed files depending to internet traffic. Internet congestion can cause playback delays, and even living on a particular road or street can influence the reception of streamed video connection.*

*Consideration of the variation of video streaming quality and dynamic Optimization of internet traffic should be considerate as a future research in order to develop an advance quality of video streaming.*

## ACKNOWLEDGEMENT

Firstly, I would like to express my appreciation to my God, the most merciful and the most compassionate who has granted me the ability and willing to start and complete this study. I do to his greatness to inspire and enable me to continue for the benefits of humanity. My most prideful thankfulness goes to my supervisor **Dr.Haslina Mohd** for her scientifically proven and creativity encouraging guidance. Honestly, she has been all the time center of inspiration and guidance. I'm deeply gratefull and thank her for her support and cooperation as being equipped to provide her besthelp. My Thank also goes to all the lecturers who giving me the moral support such as Assoc. Prof. Dr. Fadzilah Siraj, Assoc. Prof. Dr. Wan Rozaini Sheik osman, Dr. Nor Laily Hashim , Assoc. Prof. Dr. Norshuhada Shiratuddin. "May God bless all of them".

Last but not least, I wish to thank all my dearest family members, especially my Uncle Mr & Mrs Munusamy, My Father and mother in law Mr & Mrs Nadason, Brother in law Mr. Gobinath and other family members. I dedicate my admiration and thanks to my lovely wife (Yamuna Nadason) who has scarified herself and supported me to the completion of the project. My demonstrative appreciations are to all my friends especially Mr.Masli Yahya, Mr. Hazly Arshad, Dr. Badrul Akmal Hisham (Orthopedic Specialist), Mr.Jay Ganesh, Mr. Asraf (My working colleagues), Colleagues, all FTM staff and everyone who has put the hand either directly or indirectly to complete this project.

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# CHAPTER 1

## INTRODUCTION

This chapter discusses the overview of the study implemented in this study. This chapter consists of research background, problem statement, Research question, Research Objective, scope of study and significant of study. At the end of this chapter, thesis conclusion describe the structure of this report.

### 1.0 Overview of the research

The Development of teleresearch model using open source software is a tool designed for researchers. While in universities and colleges, where the combination of research been done by various faculty of research lectures and students at post graduate and PhD levels. Most of the universities or colleges are trying to implement the streaming tools method but fail to do it right due to the un realization on various types of open source softwares who offered free license by the open source organization and the significant cost which waiting to be funded although they are utilizing most of the equipments that needed in their organization for the project. While in Universities, lectures have been working without resting, running over to the Labs or to another faculties to meet other research colleague. Where else colleague or other researcher who are in other faculty out for some extra activities are unable to listen to the research discussion. Development of teleresearch model using open source software would give a great benefit to academic world.

The contents of  
the thesis is for  
internal user  
only

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