UNIVERSITY OF SCIENCE AND TECHNOLOGY OF HANOI

**UNDERGRADUATE SCHOOL**



Research and Development

**Bachelor Thesis**



Radiologist and Image management

on Lung cancer care website

August 8, 2020

ICT-LAB

University of Science and Technology of Viet Nam

Bachelor of Information and Communication Technology

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# Acknowledgement

Firstly, I am grateful to the Faculty of Information and Communication Technology at University of Science and Technology of Hanoi for giving me an opportunity to work and study at ICT’s laboratory. I give deep thanks to lecturers, Professors and staffs of the faculty.

Secondly, I would like to express my deepest gratitude to my supervisor, Dr. Tran Giang Son for his helps and also the best suggestion of project. I would never been able to finish my thesis without his valuable guidance.

Also, I would like to thank all of my members of my family and my friends. Supporting and encouraging bring me to overcome any difficulties.

Finally, I wish them all the success and happiness in their life.

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# Abstract

Nowadays, according to recent statistics, lung cancer is the highest rate of morbidity and mortality in cancer diseases on a global scale. Specifically, in 2012, there were 1.8 million new cases, of which 58% of these patients were in underdeveloped countries.

In Viet Nam, around 22.000 new cases of lung cancer are recorded every year. Medical experts and doctors gathered at the seminar on the application of targeted therapy in improving survival for non-small cell lung cancer (NSCLC) patients hosted by K Hospital (National Cancer Hospital). Lung cancer is leading cause of death among Vietnamese males, and the second-most common cause for cancer-related fatalities among females. Over 34.000 people, man and women, in Viet Nam are forecast to contract the disease on an annual basis by 2020.

Because of the dangerous and decreasing the rate of lung cancer, the system that initially assists doctors in the diagnosis of primary non-small cell lung cancer based on computer tomography has been created. I designed and implemented a web application that help doctors to manage the images of computer tomography. In order to achieve this goal, client-server model has been applied to this project. For the back-end, I use PHP for creating server, (Representational State Transfer) RESTful for designing Application Programming Interface (API), phpMyAdmin for making database. Also, the front-end, I use not only HTML, but also Bootstrap to create the user interface, CSS for the effect and JavaScript for some functions. This web application can be normally accessed by using Web Browsers.

**Keywords:** Web application, Client-Server model, PHP, RESTful API, phpMyAdmin, HTML, Bootstrap , CSS, JavaScript.

# Introduction

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