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| Teacher Left Hand |
| Capstone Project |
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| **Ho Chi Minh, 4th Jan, 2012** |

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**Record of Changes**

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| --- | --- | --- | --- | --- |
| **Date** | **Change Item** | **Description** | **By** | **Version** |
| 3/1/2012 | Outline, product introduction, purpose, people and background | Create the document | HungNQ | 0.1 |
|  | Product introduction, background, literature review | Review + Modify | GiangLP | 0.2 |
|  | Products | Create | QuanTH | 0.3 |
|  | Our proposal | Create | GiangLP | 0.4 |
|  | Products | Review | GiangLP | 0.4 |
| 7/1/2012 | Reference | Add reference | HaiNH | 0.5 |

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# Introduction

## Information Overview

* Project name: **Teacher Left Hand**
* Project code: **TLH**
* Product type: **desktop application and website**
* Timeline: **from Jan 2012 to Apr 2012**

## Purposes

This project is registered and implemented as the capstone project for the team members. The first purpose is to fulfill the requirements from FPT University studying program. The second purpose is to create a complete product for going live.

## The People

Supervisors:

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Team members:

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## Background

### THE SITUATION

As a developing country, Vietnam is facing many critical challenges in the field of education. From the universities, colleges to the high schools and secondary schools, there are many IT solutions for these problems already. However, at primary schools, teachers and pupils are not well supported with appropriate software solutions. Teachers are not familiar with new technologies. Most of them use Microsoft office as the only tool to monitor all of their knowledge and teaching experiences. The lack of a standard in their lesson plans usually leads to low quality lectures. Moreover, the rapid changes in syllabus and official textbooks make their work even more difficult and stressful. Whenever changes occur, they have no choice but reconstructing all their documents manually to keep them up-to-date which require a lot of efforts. As a result, the more they spend time to do this paperwork, the less they can improve their teaching quality.

### PROLEM CAUSES

Using computer is not new in Vietnam. However, most (over 70%) primary school teachers do not use computer efficiently. They don’t have much time to learn and update their skills since they are in charge of many subjects for a class. Besides teaching, they are also responsible for many other classes and school managerial tasks. They are overloaded with documents. As the growth of changes, there are more and more data created. Therefore, without an efficient software tool to manage teaching data, the teachers become less and less productive.

The quality of primary education is decreasing in contrast with the increase of teachers’ efforts.

### THE NEED OF A SOLUTION

To help primary school teachers reduce knowledge management time and increase the quality of their lectures, we need to provide them a strong information technology tools. Maximizing the teacher’s work efficiency and productivity is the basic requirement the software needs to meet. This tool, combined with recent approaches in education innovation is supported to be the solution for these problems.

## Literature Review of Existing Systems

Currently, there are some popular systems with quite similar services in comparison to our system. They are: School Viewer 6.0, Vietes, Edusoft.com.vn, Bachkim.vn, Phanmemgiaoduc.com.vn, violet.vn,

* **School viewer**:

SVR 6.0 software main function is to manage the entire learning process of students in high school and calculate scoring average, ranking.

New version 6.0 SVR completely supported for the rapid typing for all types of integer and decimal point.

All of the original input of the software can link with Excel data in both directions. The software has the ability to create nearly 1000 statistical report forms.

SVR 6.0 software has the function to export the entire report to the EMIS reporting system of the Ministry of Education and Training.

The software enables the automatic printing of important electronic forms including: electronic class grades, electronic teacher grades, electronic certificates, and electronic student cards.

New version 6.0 SVR has a message system. With this system, schools can communicate with other media companies to turn software into a server and manage internal messages in schools.

* **VietES**:

VietES helps user do a lot of test. The software contains about 1000 questions. Questions will be shuffled randomly according user choices.

* **Edusoft.com.vn , Bachkim.vn, Phanmemgiaoduc.com.vn:**

Onlineillustrating tools, presentation tools, e-learning system, and educational resource bank.

* **Violet**:

Software Violet helps teachers prepare lessons for classroom presentations, similar to Powerpoint software. Violet has supported more special features such as tracking and learning exercises, allowing users to synchronize lectures with multimedia resources and, pack lectures base on SCORM standard.

\*\*\* All above products concentrate too much about Teaching Method, Resource Creating but not Resource Management. They help user to create File, Material or manage People but not Knowledge and how to use these knowledge effectively

## Our Proposal

A software product to support teaching activities is not a new idea. However, due to the characteristics of Vietnam education system such as the rapid changes in textbooks and the necessity of detailed lesson plans, it requires special tools to help the teacher improve their productivity.

By implementing this product, we differentiate ourselves with other products by providing these following features:

* A friendly user interface to help teachers overcome their fear of new technologies.
* Allow users to create lesson plans with different provided templates and export them in different formats.
* Manage teaching resources, teaching methods and lesson plans.
* Allow teachers to add and collect notes or comments about their lesson plans to improve them in the future.

## Products

The main product of this project is a desktop application, which organizes teaching resources and teaching methods structurally, supports users with friendly GUI. Users will use the software to input, edit, store, organize, and reuse and export the data. Users can search for specific teaching resource or method.... to find the best one they need. Also, they can retrieve all distributed notes of teaching experiences they have created to do other researches. The application will be first developed for a single offline user per installation.

## Future Plan

Other products may include cloud-server based website for synchronization and sharing data, mobile applications. However they are not in the scope of this capstone project and are not described in this document.

# References

[1][www.vnschoolnet.vn](http://www.vnschoolnet.vn)

[2][www.vietes.com](http://www.vietes.com)

[3][www.edusoft.com](http://www.edusoft.com)

[4][www.bachkim.vn](http://www.bachkim.vn)

[5][www.phanmemgiaoduc.com.vn](http://www.phanmemgiaoduc.com.vn)

[6][violet.vn](http://www.violet.vn)

[7][www.predict.com.vn](http://www.predict.com.vn)