

CHAPTER 1

Introduction

In a world of business, Information System has a lot of importance in all organizations. This Information System (IS) means an integrated set of components for collecting, storing and processing data and for providing knowledge, digital products and information to users in organizations. We have Current Research Information System, usually known as “CRIS”, which is a system designed to help with the information management of research activity at an institution. The systems provide a common approach to organizing data such that they can be used for many purposes, including support for evaluation of research, research assessment, compliance of management and to assist in the promotion and access to the outcomes of research. CRIS also aims to provide a ‘one stop shop’ of information used for other researcher profiles. (<http://www.uksg.org/webinars/cris>)

In the College of Information Technology MSU-Marawi, research output by the faculty and students has no proper management. However, all the research holdings such as hardbound thesis and capstone projects are manually recorded and stored in the library. Unfortunately, the College of Information Technology has no proper or official designation as to the library in charge, and even no secure library room. Thus, these holdings are vulnerable for lost or misplacement. The researchers find that it is hard to conduct research on previous works in CIT. Another problem observed without proper recording of research holdings in the College of Information Technology are the following:

- • Unofficial storage of research output will lead to easily plagiarizing or copying of implemented researches that may lead to violate a copyright law.
- • Browsing of conducted researches has no proper placement.
- • The researchers are not aware if they are being acknowledged by other researchers about using their works as references.
- • Reporting of presented and current researches has no proper management.
- • Invitations of events or activities regarding researches are not properly disseminated.

- **1.1 Project Context**
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With the above problems cited, the proponents would like to propose Research Information System for the College of Information of Technology (CITRIS) to establish a Research Information System of conducted researches in CIT. Researchers will be able to browse all research projects that have been proposed and implemented by the researchers of CIT. It will be easy for the researchers to access relevant information about their assimilated presentation of research and to collect more data to overcome incomplete and inconsistent information of their research projects.

This capstone project entitled CIT Research Information System (CITRIS) is a web-based application development focused on the design of database for the storage and management of the Research Information System of the College of Information Technology MSU-Marawi.

This project was started August 2016 and expected to be finished on July 2017. This project aimed to resolve all the problems cited in CIT regarding research management as mentioned above such as unofficial storage research projects, organization of research output to research activities and even extension services of the college, plagiarizing of conducted researches. This project also aimed to eliminate the manual process of oral defense application. Through this project, the proponents wanted to lessen the difficulty of research coordinator in handling research management in CIT.

1.2 Purpose and Description

This project is intended to develop a web-based application for storing and managing conducted research projects of student researchers in CIT. The development of this project will lighten up the process of research management in the College of Information Technology.

As to CRIS, it gives an overview of larger developments in the international research information environment while CITRIS aims to give an overview to student researchers of CIT and MSU students about research projects that are conducted in MSU-CIT. Page | 3

This web-based application will be a great help to the following people:

This project will help the research coordinator in managing the research projects of student and faculty researchers. Management of researches in CIT is manually done and by the development of this project will aid the research coordinator and student researchers of CIT. This will be a lot of help to the assigned research coordinator regarding storing, managing, collecting and retrieving the information about research projects of student researchers in CIT.

This project will let researchers know the existing research projects conducted in MSU-CIT. It includes some information about the published research projects of student researchers in CIT. It can be a guide and reference to their research projects as well.

This project will aid the CIT student researchers to look easily for references about conducted research projects of CIT student researchers. It will help as well regarding the process of their oral defense about respected research projects and be updated with the submitted research projects after application for oral defense. Page | 4

1.2 Project Objectives

The main objective of this project is to design and develop a web-based application for the Research Information System of the College of Information Technology MSU-Marawi.

Specifically, this capstone project aims to:

- • Study or investigate the process of storing and managing the conducted researches in CIT MSU-Marawi, and study the different transactions among researches, specifically by the student researchers in their research activities.
- • Investigate various database models or frameworks for the database of CITRIS, programming languages and other development tools necessary in the web-based system.
- • Design and implement a web-based application for CITRIS based on the data gathered from first and second specifications.
- • Test and evaluate the performance of CITRIS based on its functionalities.

1.3 Scope and Limitation

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This project will be developed for the College of Information Technology in Mindanao State University. It will be used by the research coordinator and student and faculty researchers of CIT and other users as guests. Users have different access in using this web-based system concerning research projects that are conducted in the College of Information Technology of MSU-Marawi.