Open Access Research Output Archive and Directory System

Chapter 1

**Background of the Study**

The wide influence of Internet nowadays leads to the advancement of tools used in our day-to-day life. This advancement brought a whole new dimension on how we see things, do things, and learn things. This technological change changed the way we live, communicate, buy or sell, seek knowledge and entertainment.

According to Lamani, et. al (2018), in the present knowledge society, open access (OA) has emerged as new trend in scholarly communication over the internet. Open access helped in bridging the gap between information rich and information poor, and it is a great advantage in acquiring knowledge. Prior to the open access, research results used have limited viewership with limited visibility and ultimately limited applicability, most specially during this time of pandemic, where students and faculty has limited to access information.

The term "office automation" is generally considered to refer to the use of integrated computer and communications systems to support administrative procedures in an office environment. Automated office systems represent structured methods of handling business text processing and communications through an integrated network that may include word processing for generating correspondence, electronic message systems for person-to-person communication, teleconferencing services, facsimile transmission, electronic filing systems, on-line calendar systems, and links to corporate files and outside services (Olson et. Al.,1982).

The Research Office of St. Mary’s College of Tagum, Inc started way back \_\_\_\_\_\_\_\_\_\_\_, under the care of Dr. Prescy Baquerfo, then handed down to Dr. Neil Ryan Ado on 2018, now the Research Director of the college. Hardbound research output was kept in the cabinet and as years pass by, there were 200 copies of it in the office. There was no other way of keeping the details of the output like the IMRAD format, title, authors, year, etc. aside from encoding it in a spreadsheet file which is laborious, and would lead to unsecure, inefficient, and difficult in retrieving files. The generation of report is also challenging since there’s difficulty in retrieving the researches by program, faculty, as well as the list of collected studies yearly and researches collected from the start. Furthermore, the office is the one responsible of the letting the students and faculty lend research studies to be use as their references when copies in the library are not available. Finally, the office also manages the research outputs of the entire institution that mainly concerns the tedious amount of work specially when all department (undergraduate, education graduate school, faculty, and non- teaching personnel) will be doing research at the same time.

Systems development is the art and science of creating man-made systems to satisfy predetermined needs. It is a problem-solving process where we bring to bear appropriate elements of mankind's knowledge base to create new knowledge specific to the problem and, as a result, define a solution to the problem (Grady, 2016). For the past years, the researchers have identified no studies on the development of a solution that would serve as a repository of all research output of the college. There were no known or published archive and directory system specifically design for SMCTI Research Office. As a result, the researchers started this research to give solutions to the difficulty encountered by the office.

**Objectives**

1. To create a module that would help the Research office in the storing, retrieving, and protecting research outputs;
2. To create a module that would generate reports such as:
   1. Annual summary of researches
   2. Research output summary by program
   3. Research output summary by faculty and students
   4. List of all research outputs
   5. List of authors, and titles
3. To create a module that would let students and faculty looked over the Internet research output as their reference;
4. To create an archive and directory of researches for easy access and efficient retrieval.

**Significance of the Study**

Through the use of Open Access Research Output Archive and Directory System, the productivity of the user who will utilize the system will be enhance.

Specifically, the study will give benefit to:

Research Office - reduce their task in dealing with the research output of the institution.

Faculty and Students - aid in doing their researches by retrieving existing studies to serve as their reference online.

Future researchers- to serveas their starting point in enhancing the solution for future use.

**Scope and Limitation**

This research study is only intended to be use by research office as the primary user and students, and faculty as the secondary user of St. Mary’s College of Tagum, Inc.

The study focuses on the management of the research outputs of the college, thus, limits only to be used by the college and cannot be extended to other higher education institutions. Also, only officially enrolled students can openly access the online archive.

References

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