MAKERERE UNIVERSITY
COLLEGE OF COMPUTING AND INFORMATION SCIENCES
SCHOOL OF COMPUTING AND INFORMATICS TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE
BACHELOR OF SCIENCE IN COMPUTER SCIENCE
BIT 2207 RESEARCH METHODOLOGY
Course Work: Assignment 5

GROUP TEN(10)

NAME	REG NO	STD NO
ALEX ALINAITWE	16/U/81	216000284
PETER WAUYO	16/U/1273	216000270
JOSHUA MABINGO	15/U/7254/EVE	215011664
MUHWEZI JOEL	16/U/19699/EVE	216021707

RESEARCH PROPOSAL:

SRGS-AUTOMATED REPORT GENERATION SYSTEM

GROUP 10

April 5, 2018

1. Introduction

1.1 Background

The advancement of technology and information society is evident in our everyday life. Seeing from the end user perspective, the various IT services that we use daily seem simple and easy functional. However, in the background, there are complex databases, data warehouses and service-based technologies that become more and more widespread. Databases are used to store various types of information in hospitals, schools, universities, municipalities, government agencies and almost in all businesses services. In these complex systems, the management and presentation of the information stored in the databases are strictly defined within the software applications and information systems. Only a small room for customization is left to the people who actually use the information.

The document and report templates that are an essential parts of any software application or information system are most often predefined, and the user can only choose from the predefined templates to generate documents or reports. With this concept, the template generating process is limited to the programmers and database administrators. The common software user can use only the previously defined document and report templates. In this paper we propose an applicative solution for generating documents and reports from user defined templates - ASGRT.

1.2 Statement of the Problem

There is, currently, an abundance of database usage in almost all aspects of our lives. However, most of the end users have neither the knowledge nor the need to manage the databases. Even more important, they are unable to generate the ever-changing reports they need, based on the data in their databases.

Our Simple Report Generation System(SRGS) will deal with this issue efficiently. It has a simple yet effective architectural design aimed to give power to the more experienced administrators and simplicity to common end users, to generate reports with their own criteria and design, from their databases.

1.3 Objectives

1.3.1 General Objective

To develop an applicative solution for generating documents and reports from user defined templates.

1.3.2 Specific Objectives

To enable the common user to create his own templates and gather the info he needs from the database.

To enable interoperability so that the system is able to work with all kinds of SQl databases.

To create a user-friendly system.

1.4 Scope

The research is aimed at students and staff at Makerere University who have access to the university database.

1.5 Significance of the Study

This study is important because it aims at simplifying report generating from the database, by various types of end users in Makerere University.