BUILDING DATABASES OF MATHEMATICAL OBJECTS IN SAGEMATH (PYTHON)

COLLEGE OF COMPUTING AND INFORMATION SCIENCES
DEPARTMENT OF COMPUTER SCIENCE
RESEARCH METHODOLOGY

April 17, 2017

0.1 INTRODUCTION

A Mathematical Objects Database can be like a museum with all of best mathematical specimens is an intricate catalog and the connections between them. SageMath is a free open-source mathematics software system licensed under the General Public Licence. It builds on top of many existing open-source packages like matplotlib, Sympy, Maxima, GAP, FLINT, R and many more accessing a combined power through a common Python based language.

0.2 BACKGROUND ABOUT THE PROBLEM

0.3 PROBLEM STATEMENT

Due to an increased large-scale cloud computing which is one of the ways to provide sophisticated web interfaces that allow both experts and amateur to easily navigate their contents, there is a problem of uncharted mathematical terrain which requires online resources that provides detailed maps for mathematics. This can be solved by building mathematical objects databases using segmath for charting the terrain of rich, new mathematical worlds, and sharing of discoveries of the best mathematicians over the web.

0.4 OBJECTIVES

0.4.1 Main Objective

0.4.2 Specific Objectives

0.5 METHODOLOGY

0.6 SCOPE

0.6.1 Geographical Scope

0.6.2 Functional Scope

0.6.3 Durational Scope

0.7 SIGNIFICANCE

0.8 RECCOMENDATION AND CONCLUSION