**THE PRELIMINARIES(in roman numbers)**Include:  
I) The title page  
II) The declaration page  
III) Recommendation page  
IV) Copy right – page  
V) Acknowledgement page  
VI) Dedication page  
VII) The abstract

Abstract

-Should be single spaced, one block paragraph and be contained on one page of about 300  
words.  
-Should consist of:  
-Background to the problem  
-statement of the problem  
-Justification/ significance of the problem  
-Objectives  
-Methodology

Acknowledgements

TABLE OF CONTENTS

i) The rubric should be in title case and single spaced.  
ii) The chapter titles should be in caps and bold.  
iii) The table of contents should be organized to match the headings and subheadings and  
page numbers up to maximum three (3) levels.

TABLE OF FIGURES

i) The figures may include graphs, photographic illustrations, maps and drawings. These  
should be labeled as per serializations without including the Chapters in which they are found  
e.g. the first figure in chapter one should be labeled as Figure 1 and if the next Figure is in  
Chapter Three it should be labeled Figure 2 and so on)

# 1.0Introduction

## 1.1 Background study

i) It should show the understanding and genesis of the problem.  
ii) Background should lay the broad foundation for the problem beginning from global  
perspective narrowing down to regional context then to the country and actual location of the  
study e.g. in a precise place in Kenya.  
iii) Highlight the specific knowledge gaps that justify your study problem and which must  
lead logically to the statement of the problem in an ensuing sub-section.  
iv) Should be approximately three to four pages.

## 1.2 Statement of the problem

Must indicate exactly what the problem is.  
Indicate why and how it is a problem. Give information to support this e.g. by  
use of statistics or evidence. This should be derived from background  
information to illustrate connectivity.  
The problem should answer the following questions

What is the problem / issue?  
• What is causing the problem?  
• What is the magnitude of the problem?  
• Who is the most affected by the issue raised?  
• What could happen if the problem / issue is not addressed?

## 1.3 Objective of the study

## The objectives have to be in line with the variables the candidates hypothesize to influence the phenomenon being investigated. Should be related to the general objective which is essentially the title. They should be SMART- Specific/Specific, Measurable, Attainable/Achievable, Realistic, Time bound Should be outcome based verbs such “Identify, define, relate, describe, review, justify, examine, investigate.”

## 1.4 Significance of the study

i) The purpose statement should provide a specific and accurate synopsis of the  
overall goal of the study as outlined in the title

## 1.5 Scope of the study

## 1.6 Limitations

# 2.0 Literature review

**2.1 Introduction**i) The introduction should provide structure of this chapter in line with objectives in  
Chapter One.  
**2.2**. **General overview of Literature Related to the Main Concepts  
2.3. Review literature based on Objective One  
2.4. Review literature based on Objective Two  
2.5. Review literature based on Objective Three  
N/B.** The literature review by objective should clearly highlight the knowledge you find  
already existing in relation to the study problem. In addition it should bring out what is still  
not known about this study problem, i.e. the knowledge gaps. Show clearly which gaps in  
knowledge with regard to and not excluding methodology, theory, scope and how these link  
to your proposed study.

**2.6 Design Framework**

A **design framework** is a simple visual structure that helps organize the information and ideas of a problem so you can work on it more effectivelyi) This is the researcher’s own perception of the problem and how variables operate  
in influencing each other. The Design Framework unpacks the title and  
graphically presents the components of the research as well the variables involved technically eg databases, User interfaces, inter components communications etc

|  |  |
| --- | --- |
| ii) | The researcher is expected to provide a graphic presentation that is self explanatory showing how various variables interact and the direction of the outcomes from such interactions. The researcher should offer a brief explanation of the Design framework for clarification of the flow. |
| iii) |  |
| iv) |  |

study.

# 3.0 Methodology

**3.1 Introduction**i) Provide an outline of the contents of the chapter.  
**3.2 Research Design methods**i) Indicate type of Research Design a, justify the choice of type of research eg Waterfall

Design process design by citing authority.  
ii) Link the design to the topic  
**3.3 Location of the Study**i) State the Location of the Study and actual sites where research will be conducted,  
(ii) Justify the choice of that location  
(iii) Discuss the characteristics unique to the site that are relevant to the study problem  
**3.4. Population of the Study**i) Describe the population from where your research sample will be selected (population could be the number of computers,Technology, mobile devices etc). This should  
include Target as well as Accessible Population.  
(ii) Justify the choice of the target population and give figures where appropriate.  
**3.5 Sampling Procedure and Sample Size   
3.5.1 Sampling Procedure**i) This section should indicate the manner in which the final sample size was arrived at  
e.g. purposive, convenient, random etc.  
**3.5.2 Sample Size**i) Give the proportion of the sample in relation to the accessible population .e.g. how  
many staff interviewed from each selected class; how many teachers (heads of  
departments, class teachers etc.)  
ii) The sample sizes should be presented in a table format where there is more than  
on category of target population.  
iii) Where a formula was used, indicate the source and the workout of the figures arrived  
at in the sample size.  
**3.6 Data Collection Procedure.**

|  |  |
| --- | --- |
| i)  ii)  iii) | Describe the entire process of conducting actual research. Preliminary agreements with the respondents, when and how the instruments will be delivered. |

# 4.0System analysis and design

Functional requirement

Nonfunctional requirement

Context diagram

DFD diagram

E-R diagram

UML Diagrams (if any), class diagrams , Use case analysis etc.

proposed System design { screen shots( if any)}

Proposed Testing techniques

Conclusion and Recommendation

# 5.0 Discussion

This chapter describes the coding, testing and deployment of the project, this marks the beginning of the SOLUTION domain

4.1 system description

4.1.2 Front end development(you can put some code extract )

4.1.3 User interface Design

4.1.4 Interface modules ( screenshot + explanation)

4.2 Back end development

4.2.1 Database Design models

4.2.2 Tables (if any) or data models CSV file Artff etc.

4.2.3 Code testing

4.3 Conclusion and Future work

# 6.0 Conclusion

# 6.1 Recommendation

# Appendix