1"

<<Title of Your Research Work>>
(**Times New Roman, 14 pt. Bold**)

<<Your Name>>

<<Registration Number>>

<<Index Number>>

(**Times New Roman, 12 pt.**)

Submitted in partial fulfillment of the requirements for the award of the degree

Bachelor of Science in Computer Science [BSc (CS)] to the Department of Computer Science,

Faculty of Applied Science, Trincomalee Campus, Eastern University, Sri Lanka

(**Times New Roman, 12 pt.**)

Date of Submission

<<DD/MM/YYYY>>

0.3"

Declaration

I hereby declare that the entire work embodied in this research work has been carried out by me. The extent of information derived from the existing literature has been documented and fully acknowledged at the appropriate places, the work is original and has not been submitted in part or full for any Diploma or Degree in this or any other University. I confirm that there is no plagiarism in this document and if detected, I abide by the action that will be taken for such plagiarism by the Faculty of Applied Science, Eastern University, Sri Lanka.

…..……………………………….

<Name>

<Registration Number>

Department of Computer Science

Faculty of Applied Science

Trincomalee Campus, Eastern University, Sri Lanka

Certification of the Supervisors

This is to certify that this research report entitled "**\<Research Work Title\>**" submitted by \<\<**Student's Name**\>\> for the degree of Bachelor of Science in Computer Science is a record of research work carried out by him/her under our guidance and direct supervision and that it has not been previously formed the basis for the award of any degree, diploma, associateship, fellowship or any other similar title.

This is also to certify the document represents the original independent work of the candidate.

…..……………………………   …………………………….

Signature of Co-Supervisor   Date

\<\<Name of the Co-Supervisor\>\>

\<\<Job Title\>\>

Department of Computer Science

Trincomalee Campus, Eastern University, Sri Lanka

…..……………………………   ………………………….

Signature of Supervisor   Date

\<\<Name of the Supervisor\>\>

\<\<Job Title\>\>

Department of Computer Science

Trincomalee Campus, Eastern University, Sri Lanka

Acknowledgment

First and foremost, my heartily profound gratitude and appreciation are addressed to my co-supervisor <<**Name of the Co-Supervisor**>> and the supervisor <<**Name of the Supervisor**>> for their valuable supervision. His/Her advice, discussions and guidance were the real encouragement to complete this work. I admire his/her creativity, simplicity, generosity, work ethic, and ability to balance work and life. It has been an honour to work with him/her. I will always be thankful to him/her for the valuable time that they spent supervising my progress.

I would also like to thank <<**Name of the Head**>> - Head, Department of Computer Science, Faculty of Applied Science, Trincomalee Campus, Eastern University, Sri Lanka and all the lecturers of the faculty for facilitating carrying out my research work.

Finally, I am indebted to my parents who have supported and encouraged me through their kindness and affection so that I could concentrate on my studies. They touched me more deeply than I could have ever expected.

Abstract

This is a summary of the report. It must be 500 words long. It should give enough information to allow a potential reader to decide whether or not the report will be of interest to them. It should briefly describe the main ideas of the report, including the aims and conclusions. It should be both self-contained and self-explanatory, and it should not say anything not mentioned in the rest of the report (for this reason it is usually written last).

The Table of Contents and Table of Figures

The table of contents gives the reader a view of the detailed structure of the report, by giving section and subsection headings and associated pages.

From the next page, the report is portioned into Chapters

Chapter 01: Introduction

Project Overview: A brief description of the product to be produced, before getting into details. Normally it should include such things as:

- the aim(s) or goal(s) of the project;
- the intended audience or "beneficiaries" of the work done;
- the scope of the project;
- the approach used in carrying out the project;
- assumptions on which the work is based; and
- a broad summary of important outcomes.

Background: It should explain why the project is addressing the problem described in the report, indicate an awareness of other work relevant to this problem and show clearly that the problem has not been solved by anyone else. This section may describe such things as:

- **Problem Statement** - the problem that has been identified;
- any theory associated with the problem area;
- any constraints on the approach to be adopted.

Problem Statement

Example 1:

The aim of this research work is to develop software for the improved planning of the routing of delivery vehicles to customer locations that reflects the forecast availability of each customer to receive goods.

Example 2:

The aim of this research work is to develop a business strategy for organisation X that will improve the survivability of X in the face of increasing global competition.

Chapter 02: Related Work

Describe existing solutions relevant to the problem area, and why these are unsuitable or insufficient in this particular case. It may be useful to do a chronological format where you discuss from the earliest to the latest research, placing your research appropriately in the chronology. Alternatively, you could write in a thematic way, outlining the various themes that you discovered in the research regarding the topic. Again, you will need to state where your research fits. Demonstrate the "deficiencies" your project intends to address.

Chapter 03: Tools and Techniques

Techniques and tools that your solution may be based on or use to solve the problem;

Chapter 04: Methodology

Here you clearly outline what methodology you used in your research i.e. what you did and how you did it. It must be clearly written so that it would be easy for another researcher to duplicate your research if they wished to.

- It is usually written in a 'passive' voice (e.g. the participants were asked to fill in the questionnaire) rather than an 'active' voice (e.g. I asked the participants to fill in the questionnaire).

- Clearly reference any material you have used from other sources. Clearly label and number any diagrams, charts, and graphs. Ensure that they are relevant to the research and add substance to the text rather than just duplicating what you have said. You do not include or discuss the results here.

Chapter 05: Results and Discussion

This is where you indicate what you found in your research. You give the results of your research and interpret them. This is where you discuss the relevance of your results and how your findings fit with other research in the area. It will relate back to your literature review and your introductory thesis statement.

This is also the place to describe the reasoning behind the tests to evaluate your results, what tests to execute, what the results show and why to execute these tests.

Chapter 06: Future Work (if any)

It is quite likely that by the end of your project you will not have achieved all that you planned at the start; and in any case, your ideas will have grown during the course of the project beyond what you could hope to do within the available time.

Chapter 07: Conclusion

This is a summary of the most significant results/findings. You should not include any new material in this section. The Conclusions section should be a summary of the aims of the research work and a restatement of its main results, i.e. what has been learned and what it has achieved. It should briefly draw out, summarise, combine and reiterate the main points that have been made in the body of the research report and present opinions based on them. The Conclusions section marks the end of the research report proper. Be honest and objective in your conclusions.

References

Use IEEE reference style. References should be listed in alphabetical order of author's surname(s), and should give sufficient and accurate publication details.

For example,

Chikofsky, EJ, Cross, JH. 1990. Reverse Engineering and Design Recovery: A Taxonomy. IEEE Software, 7(1):13-17.

Date, CJ. 2000. An Introduction to Database Systems, 7th Edition. Addison-Wesley.

are acceptable references.

Instructions:

- Font – Times New Roman, 12pt, justified

- Titles & Chapters - Times New Roman, 22pt, Bold, Centered

- Subtitles - Times New Roman, 18pt, Bold, Left aligned/ Centered

- Front page **should not have EUSL logo**

- There are all kinds of stylistic conventions relating to technical writing that you should try to follow. For example:

  * do not use shortened forms such as "don't" for "do not";

  * avoid colloquialisms and slang words;

  * use British English and write in complete sentences;

  * divide your writing up into paragraphs;

  * generally, you should write in the "third person". The "first person" can be used, to avoid the report becoming stilted, though it is recommended that its use be limited; for example, it may be appropriate to use "I" when stating an opinion rather than the common "It is the author's opinion…".

- To some extent, you can use your own judgment about what conventions to follow. Whatever you do though, you must be **consistent**.

- Figures: A project report that uses figures (i.e. diagrams or other pictorial techniques such as tables) to illustrate ideas will probably be easier to digest than one that does not. Use figures wherever appropriate.

  * All figures should be labeled and captioned, for example,

    Figure 3.10: Sub-System Architecture.

  * The label can then be used to refer to the diagram within the text, e.g.

    See Figure 3.10.

  * All diagrams must be explicitly referred to somewhere within the text.

- Total pages should be 20 – 25 pages.