

# **HAPPY CODING**

## **A PROJECT REPORT**

*Submitted by*

**Ajitaa Jagannathan 2015115004**

**Saravanan R 2015115047**

**Shreya K.Y 2015115115**

*submitted to the Faculty of*

**INFORMATION AND COMMUNICATION ENGINEERING**

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF TECHNOLOGY**

*in*

**INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION SCIENCE AND TECHNOLOGY**

**COLLEGE OF ENGINEERING, GUINDY**

**ANNA UNIVERSITY**

**CHENNAI 600 025**

**October 2017**

**ANNA UNIVERSITY**  
**CHENNAI - 600 025**  
**BONA FIDE CERTIFICATE**

Certified that this project report titled TITLE OF THE PROJECT TITLE OF THE PROJECT TITLE OF THE PROJECT TITLE OF THE PROJECT is the bona fide work of NAME OF THE CANDIDATE(S) who carried out project work under my supervision. Certified further that to the best of my knowledge and belief, the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or an award was conferred on an earlier occasion on this or any other candidate.

**PLACE: Chennai**

**DATE: 23/10/2017**

**Mr.D.NARASHIMAN**

**Teaching Fellowship**

**PROJECT GUIDE**

**DEPARTMENT OF IST, CEG**

**ANNA UNIVERSITY**

**CHENNAI 600025**

**COUNTERSIGNED**

**Dr. SASWATI MUKHERJEE**

**HEAD OF THE DEPARTMENT**

**DEPARTMENT OF INFORMATION SCIENCE AND TECHNOLOGY**

**COLLEGE OF ENGINEERING, GUINDY**

**ANNA UNIVERSITY**

**CHENNAI 600025**

## **ABSTRACT**

Our project aims to automate the search process by providing solutions right on our text editor screen via a plugins. The solutions would be processed by the script so that relevant answers and comments are shown to the user. By automating this process of search and retrieval we can add some more intelligence to our text editor.

## **ACKNOWLEDGEMENT**

Acknowledgement should be brief and should not exceed one page when typed in one and a half line spacing.

# TABLE OF CONTENTS

<b>ABSTRACT</b>	iii
<b>LIST OF SYMBOLS AND ABBREVIATIONS</b>	vii
<b>1 INTRODUCTION</b>	<b>1</b>
1.1 FORMAT OF THE THESIS	1
1.1.1 Table of Contents	1
1.1.2 List of Tables and Figures	1
1.1.3 List of Symbols and Abbreviations	2
1.1.4 Chapters	2
1.1.5 Appendices	2
1.1.6 References	3
1.1.7 Citation	3
1.1.8 Tables and Figures	3
1.2 TYPING INSTRUCTIONS	4
1.2.1 General	4
1.2.2 Chapter	4
1.3 NUMBERING INSTRUCTIONS	5
1.3.1 Page Numbering	5
1.3.2 Numbering of Chapters, Divisions and Subdivisions	5
1.3.2.1 A subdivision of the subsection	6
1.3.3 Numbering of Tables and Figures	6
1.3.4 Numbering of Equations	6
<b>2 LITERATURE SURVEY/RELATED WORK</b>	<b>7</b>
2.1 METHOD OF CITATION	7
2.1.1 Citation of Journals	7
2.1.2 Citation of Proceedings	7
2.1.3 Citation of Websites	7
2.1.4 Citation of Books	7
2.1.5 Citation of Thesis	8
2.1.6 Citation of Patents/ Newspapers/ Media	8
2.2 SECTION 2	8
2.2.1 Subsection 1	8
2.2.2 Subsection 2	8

	1
2.3 SECTION 3	8
2.3.1 Subsection 1	8
2.3.2 Subsection 2	8
<b>3 DESIGN OF YOUR WORK</b>	<b>9</b>
3.1 VIEW OF TABLES	9
3.2 VIEW OF FIGURES	9
3.3 VIEW OF EQUATIONS	9
<b>4 IMPLEMENTATION OF YOUR WORK</b>	<b>11</b>
4.1 ALGORITHM 1	11
<b>5 RESULTS AND PERFORMANCE ANALYSIS</b>	<b>12</b>
<b>6 CONCLUSION AND FUTURE WORK</b>	<b>13</b>
<b>APPENDIX</b>	<b>14</b>
<b>A TOPIC 1</b>	<b>14</b>
A.1 SECTION 1	14
A.2 SECTION 2	14
<b>B TOPIC 2</b>	<b>15</b>
B.1 SECTION 1	15
B.2 SECTION 2	15
<b>REFERENCES</b>	<b>16</b>

# **CHAPTER 1**

## **INTRODUCTION**

This chapter is about the introduction of your work.

### **1.1      FORMAT OF THE THESIS**

A few guidelines for writing the thesis are given below. These are taken from Ph.d regulations of Anna University [1].

#### **1.1.1      Table of Contents**

The Table of contents should list all captions following it as well as any caption which precedes it. The title page, Certificate and Acknowledgment will not find a place among the items listed in the Table of Contents but the page numbers of which are in lower case Roman letters. One and a half line spacing should be adopted.

#### **1.1.2      List of Tables and Figures**

The list should use exactly the same captions as they appear above the Tables and Figures in the text. One and a half line spacing should be adopted.

### **1.1.3 List of Symbols and Abbreviations**

One and a half line spacing should be adopted for typing the matter under this head. Standard symbols, abbreviations, etc. should be used.

### **1.1.4 Chapters**

The chapters may be broadly divided into 3 parts (i) Introductory chapter, (ii) Chapters developing the main theme of the Thesis and (iii) Results, Discussion and Conclusion. The main text shall be divided into several chapters and each chapter may be further divided into several divisions and sub-divisions.

- Each chapter should be given an appropriate title.
- Tables and Figures in a chapter should be placed in the immediate vicinity of the reference where they are cited.
- Footnotes should be used sparingly. They should be typed single space and placed directly underneath in the very same page which refers to the material they annotate.

### **1.1.5 Appendices**

Appendices are provided to give supplementary information, which if included in the main text may serve as a distraction and cloud the central theme under discussion.

- Appendices should be named alphabetically starting from Appendix A, Appendix B, etc.



- Appendices, Tables and references appearing in appendices should be numbered and referred to at appropriate places just as in the case of chapters.
- Appendices shall carry the title of the work reported and the same title shall be included in the Table of Contents page.

### **1.1.6 References**

Any works of other researchers, if used either directly or indirectly, the origin of the material thus referred to at appropriate places in the thesis should be indicated. Use of bibtex is recommended.

### **1.1.7 Citation**

A few examples for citing articles, books and websites are given in Chapter 2.

### **1.1.8 Tables and Figures**

A Table or Figure including caption should be accommodated within the prescribed margin limits and appear on the page following the page where their first reference is made.

- Tables and Figures on half page or less in length may appear on the same page along with the text. However, they should be separated from the text both above and below by triple spacing.

- Tables and Figures on half page or less in length may appear on the same page along with the text. However, they should be separated from the text both above and below by triple spacing.
- All Tables and Figures should be prepared on the same paper or material used for the preparation of the rest of the Thesis.
- Two or more small Tables or Figures may be grouped if necessary in a single page.

## **1.2 TYPING INSTRUCTIONS**

Some guidelines for typing are provided below.

### **1.2.1 General**

One and a half line spacing should be used for typing the general text. The general text shall be typed in Font Style Times New Roman and Font Size 13.

### **1.2.2 Chapter**

The word CHAPTER without punctuation should be centered 50 mm down from the top of the page. Two spaces below, the title of the chapter should be typed centrally in capital letters. The text should commence 4 spaces below this title, the first letter of the text starting 20 mm inside from the left hand margin. The division and sub-division captions along with their numberings should be left justified. The typed material directly below division or sub-division heading should commence 2 spaces below it and should be offset 20 mm from the left hand margin. Within a division or sub-division paragraphs are permitted.

Even paragraph should commence 3 spaces below the last line of the preceding paragraph, the first letter in the paragraph being offset from the left hand margin by 20 mm.

### **1.3 NUMBERING INSTRUCTIONS**

#### **1.3.1 Page Numbering**

All page numbers (whether it be in Roman or Arabic numbers) should be typed without punctuation on the upper right hand corner 20 mm from the top with the last digit in line with the right hand margin. The preliminary pages of the Thesis (such as Title page, Acknowledgement, Table of Contents, etc.) should be numbered in lower case Roman numerals. The title page will be numbered as (i) but this should not be typed. The page immediately following the title page shall be numbered as (ii) and it should appear at the top right hand corner as already specified. Pages of main text, starting with Chapter 1 should be consecutively numbered using Arabic numerals.

#### **1.3.2 Numbering of Chapters, Divisions and Subdivisions**

The numbering of chapters, divisions and sub-divisions should be done using Arabic numerals only and further decimal notation should be used for numbering the divisions and sub-divisions within a chapter. For example sub-division 4 under division 3 belonging to chapter 2 should be numbered as 2.3.4. The caption for the sub-division should immediately follow the number assigned to it. Refer below to the subsection and subsubsections. Every chapter beginning with the first chapter should be serially numbered using Arabic numerals.

## **A subdivision of the subsection**

Use `subsubsection` in `Latex` to indicate a subdivision. The numbering should automatically appear in the Table of Contents.

### **1.3.3 Numbering of Tables and Figures**

Tables and Figures appearing anywhere in the Thesis should bear appropriate numbers. The rule for assigning such numbers is illustrated by an example. Thus, if a Figure in Chapter 3, happens to be the fourth then assign 3.4 to that Figure. Identical rules apply for Tables except that the word Figure is replaced by the word Table. If Figures (or Tables) appear in appendices then Figure 3 in Appendix Section 2 will be designated as Figure A 2.3. If a table to be continued into the next page this may be done, but no line should be drawn underneath an unfinished Table. The top line of the Table continued into the next page should, for example read Table 2.1 (continued) placed centrally and underlined.

### **1.3.4 Numbering of Equations**

Equations appearing in each Chapter or Appendix should be numbered serially, the numbering should commence afresh for each Chapter or Appendix.

## **CHAPTER 2**

### **LITERATURE SURVEY/RELATED WORK**

This chapter should provide the details about the related work. Atleast 20 articles should be referred and cited. The explanation should be provided within sections and subsections.

Include the limitations of the existing work and briefly explain how your idea is advantageous over the existing ones in this chapter.

#### **2.1 METHOD OF CITATION**

Following are a few methods of citation.

##### **2.1.1 Citation of Journals**

Method for citing journals can be seen in References [2], [3] and [5].

##### **2.1.2 Citation of Proceedings**

Proceedings should be cited as given in the References [8] and [9].

##### **2.1.3 Citation of Websites**

The websites should be cited as shown in this Reference [1].

#### **2.1.4 Citation of Books**

Books should be cited as shown in References [4] and [6]. The edited book that consists of several articles should be cited as shown in the Reference [7].

#### **2.1.5 Citation of Thesis**

Reports and thesis should be referred as given in the Reference [11].

#### **2.1.6 Citation of Patents/ Newspapers/ Media**

Check the Reference [10] for referring the patent information and [12] for citing newspapers or other media related information.

### **2.2 SECTION 2**

#### **2.2.1 Subsection 1**

#### **2.2.2 Subsection 2**

### **2.3 SECTION 3**

#### **2.3.1 Subsection 1**

#### **2.3.2 Subsection 2**

## CHAPTER 3

### DESIGN OF YOUR WORK

Your actual work should come in here. Include system architecture, modules, etc., with diagrams and provide an explanation for each of these.

#### 3.1 VIEW OF TABLES

Sample view is shown in Table 3.1 and an example is given in Table 3.2.

**Table 3.1: Example 1**

<i>c1</i>	<i>c2</i>
<i>r1</i>	<i>r2</i>
<i>r1</i>	<i>r2</i>

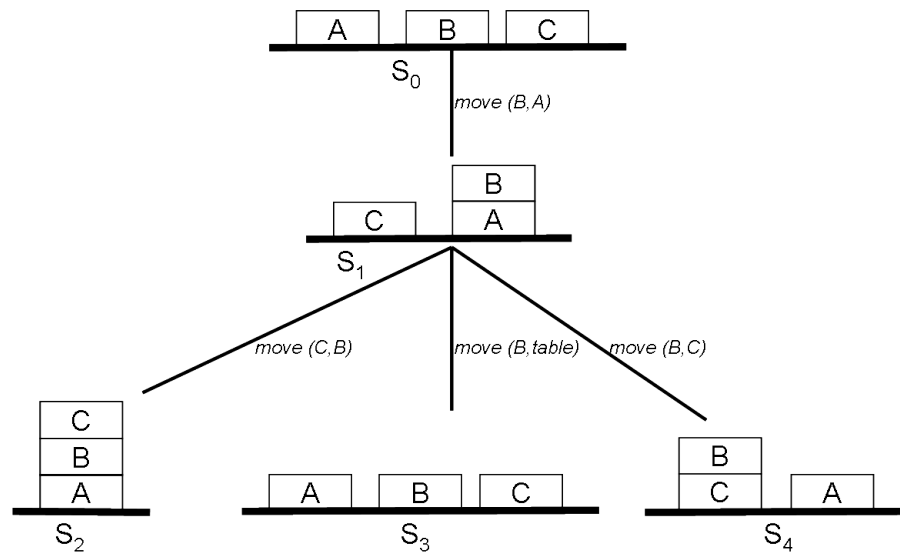
**Table 3.2: Example 2**

<i>x</i>	<i>y</i>
<i>x</i>	<i>not y</i>

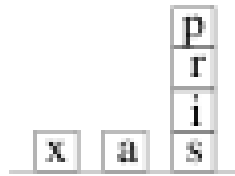
#### 3.2 VIEW OF FIGURES

Examples of pictures are shown in Figure 3.1 and Figure 3.2.

#### 3.3 VIEW OF EQUATIONS



**Figure 3.1: Example 1**



**Figure 3.2: Example 2**

The sum of squares of  $a$  and  $b$  are calculated as shown below:

$$(a + b)^2 = a^2 + b^2 + 2ab \quad (3.1)$$

From Equation 3.1, the data is obtained.



## CHAPTER 4

### IMPLEMENTATION OF YOUR WORK

The implementation details of your work should be mentioned in this chapter.

#### 4.1 ALGORITHM 1

---

```
1: Get the number of variables  $num$ 
2: Start with an empty list  $x$  [ ]
3: for each  $n$  of  $num$  do
4:   Get the  $x$ 
5:   Get the  $t$ 
6:   Get the  $w$ 
7: end for
8: if  $xl == s$  then
9:   terminate with the failure message failed
10: else
11:    $z = x$ 
12: end if
```

---

## **CHAPTER 5**

### **RESULTS AND PERFORMANCE ANALYSIS**

This chapter should provide the details of results and the analysis of your work. Depending on the type of project, there may not be analysis. In such cases, mention the title as “Results” or “Testing and Results”.

## **CHAPTER 6**

### **CONCLUSION AND FUTURE WORK**

Conclude your work and provide an explanation for future enhancements.

## **APPENDIX A**

### **TOPIC 1**

#### **A.1 SECTION 1**

#### **A.2 SECTION 2**

## **APPENDIX B**

### **TOPIC 2**

**B.1      SECTION 1**

**B.2      SECTION 2**

## REFERENCES

- [1] Anna University PhD-Regulations 2015. <https://cfr.annauniv.edu/research/regulation/PhD-Regualtion-2015.pdf>. Accessed: 20 March 2015.
- [2] K Alishahi, F Marvasti, VA Aref, and P Pad. Bounds on the sum capacity of synchronous binary cdma channels. *Journal of Chemical Education*, 55:3577–3593, 2009.
- [3] DW Conley, TG & Galeson. Nativity and wealth in mid-nineteenth century. *Journal of Economic History*, 58:468–493, 1998.
- [4] DH Holt. *Management Principles and Practices*. Prentice-Hall, Sydney, 1997.
- [5] S Waldron. Generalized welch bound equality sequences are tight frames. *IEEE Transactions on Information Theory*, 49:2017–2309, 2008.
- [6] Philippe Aghion and Steven Durlauf, editors. *Handbook of Economic Growth*, volume 1. Elsevier, 1 edition, 2005.
- [7] Dan Riley. *Industrial relations in Australian education / edited by Dan Riley*. Social Science Press [Wentworth Falls, N.S.W.], 1992.
- [8] Richard E. Fikes and Nils J. Nilsson. STRIPS: A New Approach to the Application of Theorem Proving to Problem Solving. In *Proceedings of the 2Nd International Joint Conference on Artificial Intelligence, IJCAI'71*, pages 608–620, 1971.
- [9] Weiguo Fan, Michael D. Gordon, and Praveen Pathak. Personalization of Search Engine Services for Effective Retrieval and Knowledge Management. In *Proceedings of the Twenty First International Conference on Information Systems, ICIS '00*, pages 20–34, 2000.
- [10] AH Cookson. Particle trap for compressed gas insulated transmission systems, 1985.
- [11] JP Hos. *Mechanochemically synthesized nanomaterials for intermediate temperature solid oxide fuel cell membranes*. PhD thesis, University of Western Australia, 2005.
- [12] J Ionesco. Federal Election: New Chip in Politics. *The Advertiser*, page 10, 2010.