<Title of Thesis>

A Thesis Proposal

Presented to

the Faculty of the College of Computer Studies

De La Salle University

In Partial Fulfillment

of the Requirements for the Degree of

Bachelor of Science in Computer Science

by

<last name, first name, middle initial of proponent, alphabetically arranged>

<last name, first name, middle initial of proponent, alphabetically arranged>

<last name, first name, middle initial of proponent, alphabetically arranged>

<last name, first name, middle initial of proponent, alphabetically arranged>

<adviser’s signature>

<adviser’s name>

Faculty Adviser

<date of submission>

The thesis proposal entitled

<title of thesis>

developed by:

<lastname, firstname, middle initial of proponent 1>

<lastname, firstname, middle initial of proponent 2>

<lastname, firstname, middle initial of proponent 3>

<lastname, firstname, middle initial of proponent 4>

and submitted in partial fulfillment of the requirements of the Bachelor of Science in Computer Science degree, has been examined and recommended for acceptance and approval.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, Adviser

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, Date

Abstract

From 150 to 200 words of short, direct and complete sentences, the abstract should be informative enough to serve as a substitute for reading the thesis itself. It states the rationale and the objectives of the research. Do not put citations or quotes in this section. **Avoid beginning the abstract with “This paper/document/thesis/study/ project/…”**

The abstract should include **at least three** keywords that are relevant to the thesis project. For example:

**Keywords:** agent, collaboration, communication, multi-agent systems, and distributed artificial intelligence.

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**TIP:** To update the Table of Contents, hover your cursor/mouse over the Table of Contents. On the upper left, there should appear 2 buttons. Click **Update Table**.

**NOTE:** Please check the page numbers of **Bibliography** and the **Appendices** after updating to make sure they match the actual page numbers.

List of Tables

**No table of figures entries found.**

**TIP:** To update the list of tables/figures, click on the text “**No table of figures entries found.**” and under the **References** tab, click **Update Table**.

List of Figures

**No table of figures entries found.**

**TIP:** To update the list of tables/figures, click on the text “**No table of figures entries found.**” and under the **References** tab, click **Update Table**.

# Research Description

<provide a sentence or two describing this section>

## Overview of the Current State of Technology

This section gives the reader an overview of the specific technology or field in the international or local setting. The information regarding the technology or field should be contemporary and not based on outdated sources. Discussion must not be too technical or too detailed.

This section ends with a discussion on the problems faced by or that still exist in the specific technology or field (e.g., limitations of existing software or algorithms). The problem statement would lead to the research objectives.

**TIP:** When citing authors, use **References → Insert Citation** so that you can have the Bibliography automatically update your cited works.

**TIP:** When adding figures and tables, use **References → Insert Caption** so that you can have the **List of Figures/Tables** automatically update your figures and tables.

## Research Objectives

### General Objective

This section states the overall goal that must be achieved to answer the problem.

### Specific Objectives

This subsection is an elaboration of the general objective. It states the specific steps that must be undertaken to accomplish the general objective. These objectives must ***be specific, measurable, attainable, realistic, and time-bounded***. Each specific objective may start with “**to design/survey/review/analyze…**”

Studying a particular programming language or development tool (e.g., to study Windows/Object-Oriented/Graphics/C++ programming) to accomplish a general objective is inherent in all thesis and, therefore, must not be included here.

## Scope and Limitations of the Research

This section discusses the boundaries (**with respect to the objectives**) of the research and the constraints within which the research will be developed.

## Significance of the Research

This section explains why research must be done in this area. It rationalizes the objective of the research with that of the stated problem. Avoid including here sentences such as “This research will be beneficial to the proponents/department/college” as this is already an inherent requirement of all ST thesis projects. Focus on the research’s contribution to the Computer Science field.

# Review of Related Literature

This section discusses the features, capabilities, and limitations of existing research, algorithms, or software that are relevant and related/similar to the thesis. The reviewed work and software must be arranged either in chronological order, or by area (from general to specific). Observe a consistent format when presenting each of the reviewed works. In this section, the maximum number of pages is 20. At the end of this section, a table of summary should be included discussing the different systems discussed so far.

t is highly recommended that all existing systems being studied and reviewed are recent. This chapter should contain at most 20 pages, thus the discussion must be clear and concise.

**TIP:** When citing authors, use **References → Insert Citation** so that you can have the **Bibliography** automatically update your cited works.

**TIP:** When adding figures and tables, use **References → Insert Caption** so that you can have the **List of Figures/Tables** automatically update your figures and tables.

**TIP:** Need more chapter headings? **Home → Styles** has Heading 1 for new chapters, and Heading 2, 3, 4, …, 9 for subchapter headings.

# Research Methodology

This section lists and discusses the specific steps and activities that will be performed by the proponents to accomplish the project. The discussion covers the activities from Thesis Proposal to THSST-3.

Examples of activities include inquiry, survey, research, brainstorming, canvassing, consultation, review, interviews, observe, experiment, design, test, document, etc. The methodology also includes the following information:

* What will be done
* How it will be done
* When and how long will the activity be done
* Where will it be done
* Why should be activity be done

**TIP:** When citing authors, use **References → Insert Citation** so that you can have the **Bibliography** automatically update your cited works.

**TIP:** When adding figures and tables, use **References → Insert Caption** so that you can have the **List of Figures/Tables** automatically update your figures and tables.

**TIP:** Need more chapter headings? **Home → Styles** has Heading 1 for new chapters, and Heading 2, 3, 4, …, 9 for subchapter headings.

# Calendar of Activities

As of AY 2015 – 2016, the terms follow these dates:

* Term 1: September to December
* Term 2: January to April
* Term 3: May to August

This section contains the Gantt chart showing schedule of the activities outlined in the previous section (Research Methodology). The following table is an example of a Gantt chart:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ACTIVITY | MAY | JUN | JUL | AUG | SEPT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN |
| Data Gathering | \*\* | \*\*\*\* | \*\* |  |  |  |  |  |  |  |  |  |  |  |
| Software Requirement Analysis |  |  | \*\*\*\* | \*\*\*\* | \*\*\*\* |  |  |  |  |  |  |  |  |  |
| Initial Architecture Design |  |  |  |  | \*\* | \*\* |  |  |  |  |  |  |  |  |

Including the months of STRESME / thesis proposal may be required by the adviser or professor. For THSST-3, assume that thesis defenses start midterm.

# Bibliography

**There are no sources in the current document.**

**TIP:** To update the Bibliography, hover your cursor/mouse over the Bibliography. On the upper left, there should appear 2 buttons. Click **Update Citations and Bibliography**.

**NOTE:** After updating, the Bibliography will be compact, just highlight the Bibliography (except the title) and click **Home → Styles → Bibliography** to automatically add spacing.

1. xxx

<content>

1. yyy

<content>

1. Resource Persons

<Full name and title, e.g., Dr. Juan de la Cruz>

<Profession, e.g., faculty>

<Department, e.g., College of Computer Studies>

<Name of institution, e.g., De La Salle University>

<E-mail address>

1. Personal Vitae

<Full name and title, e.g., Mr. Juan de la Cruz>

<Residence address>

<Contact numbers>

<E-mail address>

<Full name and title, e.g., Mr. Juan de la Cruz>

<Residence address>

<Contact numbers>

<E-mail address>

<Full name and title, e.g., Mr. Juan de la Cruz>

<Residence address>

<Contact numbers>

<E-mail address>

<Full name and title, e.g., Mr. Juan de la Cruz>

<Residence address>

<Contact numbers>

<E-mail address>

# GUIDES ON M.S. WORD FORMATTING

This section should be removed and the Table of Contents updated before printing the document. This section will contain tips and instructions on how to do formatting in M.S. Word.

## Tips

### Blue Text of Tip-Giving

Throughout the document, you will find text in blue. The text in blue are merely notes and tips on how to best use this word document file’s formatting capabilities.

Other indicators is that the blue text are often labeled with the words “Tip” and “Note” while the red text has no labels.

## Instructions

### Using the Table of Contents

This section discusses the Table of Contents, Headings and Page Numbers. Each entry in the Table of Contents contains a Heading and Page Number.

To see a clickable outline of the headings, tick the **View 🡪 Navigation Pane** checkbox in the Show section.

#### The Table of Contents and Headings

The Table of Contents is directly tied to the Headings. The Table of Contents uses the headings to generate each entry and its corresponding page number. In the sections below are three types of headings:

##### Headings with Chapter Numbers

The following are headings found under **Home → Styles** you can use:

* Heading 1 generates **x.0. Chapter Title** where x is any number 1, 2, … depending on existing chapters before itself (1.0, 2.0, 3.0, … x.0)
* Heading 2 generates **x.y. Subchapter Title** where x is the chapter it’s currently under and y is any number 1,2, … depending on existing chapters before itself (1.1, 1.2, 1.3, 2.1, 2.2, …, x.y)
* Heading 3 generates a subchapter for Heading 2; similar to Heading 2, it generates a subchapter number of **x.y.z. Sub-subchapter Title** where x.y is the subchapter it is currently under and z is any number 1, 2, … depending on existing chapters before itself (1.1.1, 1.1.2, 1.1.3, 1.2.1, …, x.y.z)
* Heading 4 generates a subchapter for Heading 3
* Heading 5 generates a subchapter for Heading 4
* Heading 6 generates a subchapter for Heading 5
* Heading 7 generates a subchapter for Heading 6
* Heading 8 generates a subchapter for Heading 7
* Heading 9 generates a subchapter for Heading 8

##### Headings with No Chapter Numbers

For a chapter or subchapter to appear in the Table of Contents without a chapter number, just use its corresponding Heading (Heading 1, Heading 2, …) and then remove the chapter number using Backspace.

##### Headings Not in Table of Contents

For a chapter or subchapter to have the look of a Heading but not appear in the Table of Contents, use “Heading (No ToC)” in **Home → Styles**.

#### The Table of Contents and Page Numbers

The Table of Contents finds Headings (discussed in the previous section) and finds the page number of the page each heading is found on. Unfortunately, it has some limitations. It can do continuous numbering with and without chapter numbers (e.g. Chapter 2.0 at page 3 gives a page number “2-3” or “3”); however, it cannot do chapters with a different kind of header.

For example, an “**Appendix A. xxx**” that comes after “**10.0 yyy**” will produce a page number of “10-1” instead of “A-1”. This is because the page numbers use *Heading 1* as a basis and *Heading 1* uses an “**x.0.**” numbering format and cannot be changed to “**Appendix x.**” in the middle of a document.

A possible solution to this is the use of a second document (.doc/docx) that contains the appendices and makes use of its own Table of Contents with the Multilevel List containing the Appendix format. However, doing this requires the pages of the original document and the pages of the appendix document’s Table of Contents to be constantly updated to be in line with each other.

Aside from that solution, the solution this document is taking is the use of a different kind of numbering system for the appendices (i.e. “- x -“ where x is the page number). This ensures that the appendices are different without requiring a separate document altogether.

### Using the List of Tables and List of Figures

The List of Tables and the List of Figures can both be used to track tables and figures respectively through their caption. To give a table or figure a caption, do the following:

1. Select the table (just have the typing cursor inside the table) or figure that needs the caption.
2. Amongst the tabs, choose **References 🡪 Insert Caption**. Another way is to right-click on figures and choose **Insert Caption…** instead.
3. Fix the caption to the desired output.
4. Select the **List of Figures** or the **List of Tables** according to what was changed.
5. Amongst the tabs, choose **References 🡪 Update Table** inside the Captions section, don’t choose the one inside the Table of Contents section!

Of course, this will work for any caption. If a new list for a different type of caption is needed, just do the following:

1. Amongst the tabs, choose **Page Layout 🡪 Breaks 🡪 Next Page**. Breaks is found under inside the Page Setup section, while Next Page is found under Section Breaks.
2. Place the text cursor on that new page.
3. Amongst the tabs, choose **References 🡪 Insert Table of Figures** inside the Captions section.
4. Choose the correct caption type or *Caption Label* and fix the settings to how you want it to look.
5. Press OK.

### Using the Bibliography

This section will discuss how to use the citations and bibliography for this document. This includes adding a citation and updating the bibliography.

#### Adding a Citation

To add a citation, find the **References** tab and select the **Insert Citation** button. This will produce a dropdown with the choices **Add New Source…** and **Add New Placeholder…**. When unsure about the actual source information or it’s something to be verified later, choose to add a placeholder, but when the source information is already ready, choose to add a new source.

To modify the citation (to remove the name for example if “Name (Year)” is the goal), right-click on the citation and select “**Edit Citation**”.

#### Update the Bibliography

After adding a citation or modifying a citation source, head to 10.0 Bibliography and place the text cursor inside the Bibliography. An option to **Update Citations and Bibliography** will appear above the area, select that.

**Don’t forget to select all the new bibliography entries and select the “*Bibliography APA*” style in Home 🡪 Styles immediately after updating the bibliography.** This is to ensure that the bibliography follows the correct APA format.