**<Title of Capstone Project>**

*(must describe the entirety of your project using minimal number of words)*

**A Capstone Project by**

**<Name1>**

**<Name2>**

**<Name3>**

**Submitted to the Computer Science and Information Technology Department**

**Bicol University College of Science**

**In Partial Fulfillment**

**of the Requirements for the Degree**

**Bachelor of Science in Information Technology**

**May 2023**

APPROVAL SHEET

This capstone project entitled **<Title>**, prepared and submitted by **<Name1, Name2, and Name3>**, in partial fulfillment of the requirements for the degree **Bachelor of Science in Information Technology** is hereby accepted.

| **<Adviser>** | |
| --- | --- |
| Content Adviser  **<Adviser>**  Programming Adviser | |
| **<Panel Chair>** | |
| Chair, Defense Panel | |
| **<Panelist 1>** | **<Panelist 2>** |
| Panel Member | Panel Member |

Accepted and approved for the conferral of the degree **Bachelor of Science in Information Technology**.

**Ryan A. Rodriguez, MIT, MSCS**

Chairperson, CSIT Department

**Jocelyn E. Serrano, M.Sc.**

Dean, BUCS

DEDICATION

This portion is optional but perhaps you have someone or some people who have inspired you to push on with your studies? A dedication would be a fitting way to acknowledge their impact on your success.

ACKNOWLEDGMENTS

The road to this point in your studies could not have been traveled alone. Along the way, someone somewhere helped you. This is your chance to thank them.

By the way, exercise the liberty to be personal to reflect the sincerity of your gratitude.

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ABSTRACT

Insert your abstract here. This portion is not to be indented and should be clear, concise, and complete. As much as possible, limit the introductory part to a few sentences and make sure that the last sentence reiterates the achievement of the general objective of the research.

# INTRODUCTION

## Background of the Study

The background of the study is the story of your research. In this portion, you give a narrative of the project.

It is suggested that you use an inverted triangle approach in the story telling, starting with a general overview and moving on to the specifics. You should be generous in your citations because it lends credence to your work. You should specifically cite statements of facts to support your arguments.

It is suggested that you give the statement of the problem at the end of the background. The solution to the problem would be identified in the next section.

## Objectives of the Study

Start with the general objective of the research. The general objective should provide the answer to the problem just stated above. In a way, the general objective is a restatement of the title of the capstone project.

The specific objectives follow, using a colon at the end:

1. The specific objectives must be SMART;
2. They should have a one-to-one correspondence to the conclusions you will make in Chapter 5.

## Significance of the Study

Insert the significance of the study. Be exhaustive. Why is your study important? Who will benefit from your study, and in what way?

## Scope and Delimitations

Insert the scope and delimitations here. The scope is the extent and the parameters of the study. The delimitation is the boundary. You cannot finish an open ended activity. Your scope and delimitations will define the extent of your study (what’s covered) and the boundaries (what’s not included).

# THEORETICAL FRAMEWORK

## Review of Related Literature

For the review of related literature, make sure to touch on the most important aspects of your study. Use a topical outline. In your style of discussion, be sure to adopt a storyline. Do not forget to cite all statements of facts, main ideas/trends, equations, findings, etc. Use APA format for the citation. As much as possible, use the most recent journal articles for your references. Use books sparingly. And no Wikipedia, please!

Use the online journals below to read and download literatures

<https://ieeexplore.ieee.org/Xplore/home.jsp>

<https://www.acm.org/>

<https://scholar.google.com/>

<https://www.crossref.org/>

<https://www.scopus.com/>

For tables, use the following format:

**Table 2-1.** From "References" > Insert Caption > Table

| Indent the Table label to start of table | Only the table number is capitalized., the label is not. |
| --- | --- |
| The List of Tables should be automatically generated | The Chapter number is included in the table number |

## 

## Concept of the Study



**Figure 2-1.** From "References" > Insert caption > Figure

Provide a conceptual framework in the form of a single diagram which should show all the aspects of the study. Provide a description of the framework after the diagram.

## Definition of Terms

**Word 1** Definition for Word 1 (Operational Definition)

**Word 2**  Definition for Word 2

# OPERATIONAL FRAMEWORK

## Materials

### Software

Describe all the software that you used including names and other details.

### Hardware

Describe the hardware that you used.

### Data

Indicate the source of the data, type of data, year of acquisition, and other pertinent details.

## Methods

### Need Assessment

The headings given here for the methods are only suggestive. Adopt what is appropriate for your study. For example, you would have experimental design if you used one such as multivariate method and the like which would describe the number of tests you did and the conditions for testing.

### Data Gathering

Still this is suggestive. It depends on your research design

### Procedures for the different phases (e.g. RAD)

#### Requirements Planning

Discuss the activities that you intend to do in this phase

#### User Design

Activities here ( Planned activity during proposal / Actual Activity during final defense)

#### Construction Design

Activities here ( Planned activity during proposal / Actual Activity during final defense)

#### Cutover

Requirements planning, User Design, Construction Design, Cutover are phases of RAD. You may need to change all these if you will be using a different method. (SCRUM, Extreme Programming, Iterative, etc…)

### Evaluation Procedure

Discuss here how you intend to evaluate your project. Use a standard evaluation method.

ISO/IEC 25010 provides quality models that may be used to evaluate the quality of the software.

<https://iso25000.com/index.php/en/iso-25000-standards/iso-25010>

# RESULTS AND DISCUSSION

## Needs Assessment Result

Name the phases of your study and give the results. Have as many headings as necessary depending on the number of experiments or studies you did. Provide the discussions.

## Data Gathering Result

## The Developed System

The headings above are only suggestive. Follow what is appropriate for your research work. You may use the title of your system instead as a title for this portion.

Include here your Context Flow Diagram / Data Flow Diagram, UML / Database Model, Use Case Diagram, Process Flow, and other models you used to describe your system.

Include here also the finished system design, forms, and screenshots of sample run. A comprehensive walkthrough of the system would help in presenting your output.

## Evaluation Result

ISO/IEC 25010 evaluation result

# SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

## Summary

Provide a rather concise summary of the Results and Discussion provided in the previous Chapter (Chapter 4). Refer to the objectives in writing this portion.

## Conclusions

The conclusions are direct statements that would prove the achievement of the specific objectives. The conclusions should have one-to-one correspondence to the specific objectives and also with reference to the data provided in the Summary, i.e. if you have 4 specific objectives (a to d) then you should have 4 conclusions (1 to 4).

## Recommendations

Recommendations are improvements that could be done in the paper. Aspects not touched by the activity but could provide better results if included.

REFERENCES

Use APA formatting for all references (in the body and in the listing here).

<https://www.easybib.com/guides/citation-guides/apa-format/how-to-cite-a-website-apa/>

Use Mendeley Citation for easy tracking and insertion of references in your paper.

<https://www.mendeley.com/download-desktop-new/>

APPENDICES

##### <Appendix A:> <Title>

Place your appendices here. Please be sure that these have been referenced in the body of document.

BIONOTE

Bionote is a narrative that describes the author without disclosing information that would violate data privacy act. Include only an active email address as contact detail and your close-up picture in formal attire.

Name, Educational Background, Interests, Skills, Email Address.

**Do not** include Birthday, Address, phone number, name of parents, children (if any) and other information that you typically found in your biodata.