A TECHNICAL FORMAT FOR THE BSCS/BSIT CAPSTONE PROJECT AND UNDERGRADUATE THESIS

A Capstone Project/Thesis presented to the Faculty, College of Computer Studies
Laguna State Polytechnic University
Los Baños Campus
Los Baños, Laguna

In partial fulfillment of the requirement for the degree
Bachelor of Science in IT/CS
Specialized in <your specialization track>

<name of proponent>
<name of proponent>
<name of proponent>

<name of adviser>

Month and Year of Graduation

APPROVAL SHEET

The Capstone Project entitled "**A TECHNICAL FORMAT FOR THE BSCS/BSIT CAPSTONE PROJECT AND UNDERGRADUATE THESIS**" prepared and submitted by Allen **Edwin Concepcion, Paolo C. Moring, and Eziel Cangao** in partial fulfillment requirements for the degree Bachelor of Science in Information Technology specialized in <your specialization track>, is hereby recommended for approval and acceptance.

<div align="right">

<NAME OF THE ADVISER>
Adviser
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Approval and Acceptance by the Committee on Oral Examination with a grade of_____on _____.

<NAME OF THE SUBJECT EXPERT>	**<NAME OF STATISTICIAN>**
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<NAME OF THE RESEARCH COORDINATOR>
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Accepted as partial fulfillment of the requirements for the degree of Bachelor of Science in Information Technology.

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<NAME OF RDO CHAIRPERSON>   _____
Chairperson, Research and Development Office   Date Signed

RESEARCH CONTRIBUTION NO.	

ACKNOWLEDGMENT

In this section, the researchers must acknowledge all the people to help them during the conduct of their study. Hence, they can also acknowledge the organization that lends them data or funding support. Acknowledging the university is optional, however, it is suggested to give appreciation to it.

DEDICATION

The researchers can give dedication to their family and love ones or include those who they will be dedicating the project.

ABSTRACT

Rekon: Intelligent Startup Identifier for Establishing Business through SpatialAnalysis is a website application that suggests location for the entire business owner or startup business that are starting their own business in the place of barangay Batong Malaki. It is a website system that can suggest a place where is the best for you to start a business; it is equipped with a Geographical Information System (GIS), process by the Artificial Intelligence and also analysed by using KDD process to determined more and be accurate for all the place given. The research was structured and accomplished through different scientific and technological process and approach. With the use of KDD process Data Mining, It is possible to more analyse the data, and also the Geographical Information System (GIS) that gives a latitude and longitude of the place. In this research and also Laravel that intended for the development of web applications, it was found out that the website system was very applicable to improve more the capability of the business in Batong Malaki will grow. Due to these advantages of using website that gives location the growth of successful businesses in Laguna also will increase on its normal percentage.

Keywords: *GIS, Knowledge Discovery Databases Process (KDD), location, laravel, artificial intelligence, start-up business, website system*

TABLE OF CONTENTS

The above is sample on how you will include all the headers of your manuscript.

DEFINITION OF TERMS

Term 1   Definition of the first term.

Term 2   Definition of the second term.

Term 3   Definition of the third term.

CHAPTER 1

INTRODUCTION

PROJECT CONTEXT

This section serves as the introduction of the research paper, providing a brief overview of the project. This section provides the reader the rationale of research/project work and provides a sufficient background, relevance, and importance of the study. A good project context should contain a discussion of any or all of the following: (a) Discuss the overview of the current state of technology and the current condition of the topic in the local, national and international settings, (b) presentation of the problems, (c) the existence of unsatisfactory conditions, a felt problem that needs a solution to the gap of technology related to the study, (d) show the rationale and justification of choosing the subject and (e) historical or background of the problem. The researchers must further explain the necessity for the software to be developed and it should be in conformity to the gap in the technology that the researchers found out during the gap analysis.

PROJECT OBJECTIVES

This section summarizes what is to be achieved by the study. This usually contains general and at least three (3) specific objectives. Project objectives are parallel to research problems.

PROJECT PURPOSE (SGD - Discuss)

This section describes the significance of the study and the potential value of the study and findings. It should be clear in here, the target audience for the study and how the results will be beneficial for them. It answers the questions – Why is it important? To whom it will be beneficial?

SCOPE AND LIMITATION OF THE STUDY

This section describes the coverage and constraints of the study in each module of the system. It is suggested that each limitation must be discussed in every module or feature of the project.

CHAPTER 2

THEORETICAL FRAMEWORK OF THE PROJECT

REVIEW OF RELATED LITERATURE, STUDIES, AND SYSTEMS

This section discusses the features, capabilities, and limitations of existing researches, IT concepts. Theoretical framework and software applications that are relevant and closely related/similar to the proposed topic. The researchers can present their review of the literature, studies and systems either in the chronological order or thematic order. It must be topical discussion and in APA format.

SYNTHESIS AND RELEVANCE OF THE STUDY

This is the portion of the Review of Literature that presents the relationship of the present study to the investigations being reviewed. It summarizes and emphasizes its relevance to the current study. Also, it presents the related studies and related systems the researchers found out. The researchers can also present a technology gap analysis table to be able to justify the gap to be filled in.

LITERATURE MATRIX (TABLE – AUTHOR, TITLE, METHOD/ALGORITHM, KEY FINDINGS, YEAR)

CONCEPTUAL FRAMEWORK

This section discusses conceptual framework, represents the researcher's synthesis of the related literature and studies on how to explain a phenomenon. It maps out the actions required in the course of the study given his previous knowledge of other researchers' point of view and his observations on the subject

of research. Provide a conceptual framework in the form of a single diagram which should show the aspect of the study.

CHAPTER 3

METHODOLOGY

Project Locale
Implementation/Pilot Testing

Project Design

System Architecture

Provide a single diagram of System Architecture that represents the overview of the system to be developed. It contains all the modules of the system.

Project Development

Models and Processes

(*UML Diagram)*

Model Development

Software Development

Software and Hardware Specification

SDLC

Evaluation Matrix

Sample Size

Inclusion and Exclusion Criteria (Purposive Sampling)

Project Instrument

ISO 25010

Statistical Analysis of Data

Likert Scale

Ethical Consideration

There is no compliance/violation of research ethics

References/Bibliography (Minimum of 30 references)

CHAPTER 4

RESULTS AND DISCUSSION

This chapter presents the results and the discussion to support the methodology utilized in the achievement of the objectives. The presentation is usually guided by the specific objectives or problems of the research study.

CHAPTER 5

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

This chapter includes a summary of the main findings of the study. It also presents the significance of the study, and relates findings to the objectives and problems written in the introduction part of the study. Recommendation/s must be stated in this chapter. This part usually directs the reader to conduct further research on some specific areas related to the study. Summary This section presents the summary of the results of the research study. Should isolate all the important points, review all the ideas on your list. Summary does not require you to critic you just summarize the content briefly in order to establish for the reader the ideas of the study. Conclusions This section presents the based on the objectives and merge with the finding of the study. Recommendation This section presents based on the conclusions, may include further research of the study. It may also include a direction on how to use the software product in order to achieve maximum benefits.

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