**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.

**<NAME OF THE ADVISER>**

Adviser

Approval and Acceptance by the Committee on Oral Examination with a grade of\_\_\_\_on \_\_\_\_.

**<NAME OF THE SUBJECT EXPERT> <NAME OF STATISTICIAN>**

Member Member

**<Name of the Technical Expert> <Name of Language Expert>**

Member Member

**<NAME OF THE RESEARCH COORDINATOR>**

Research Coordinator

Accepted as partial fulfillment of the requirements for the degree of Bachelor of Science in Information Technology.

**<NAME OF THE DEAN>**

Dean, College of Computer Studies

**<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**

Title Page….…………………………………………………………………………i

Chapter I……………………………………………………………………….……1

Project Context……………………………...……………………………...2

*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 researchers’/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 current local, national and international settings that is related to your chosen topic.(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 (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**

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.

**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**

**ANIMATION AND MOTION GRAPHICS**

***Application Development***

**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**

This part discusses the software process model which pertains to various processes or methodologies that are being selected for the development of the project depending on the project’s aims and goals. There are many development life cycle models that have been developed in order to achieve different required objectives. The models specify the various stages of the process and the order in which they are carried out.

**Project Testing and Evaluation**

This part discusses the plan for testing and evaluation procedure in the conduct of the study. The testing and evaluation should be reflected on the objectives. The researchers must discuss the type(s) of testing performed on the system, the test data used, and the results of the test. Testing the system can vary on the system developed by the researchers. For the systems that are client-based, a detailed acceptance test may be required to show that the client has really accepted the system as well as to show that the system has fulfilled the needs of the client.

***Animation***

**Materials**

**Data**

Indicate the source of the data, type of data, year of acquisition and other pertinent information. Example: If you were creating an animation film about women empowerment, one of the sources of your data are the films created in the Philippine showing how writers portray Filipina in every scene. Note that this data acquisition approach may vary depending on the main purpose of the project.

**Software Specifications**

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

**Hardware Specifications**

Describe all the hardware that will be used including names and other details.

**Animation Development Model**

It discussed the Animation Development Model which pertains to various processes or methodologies that are being selected for the development of the project depending on the project’s aims and goals e.g. gathering information, concept and script, storyboarding, voice over recording, visual style, animation, and music.

**Evaluation**

This section includes but not limited to acceptability and marketability testing of the project.

**WEB AND MOBILE APPLICATION DEVELOPMENT**

**Project Design**

**System Architecture**

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**SERVICE MANAGEMENT PROGRAM ( ℅ DR. MIA)**

**Project Design**

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Table 1. First Table Sample

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| **Header 1** | **Header 1** | **Header 1** | **Header 1** |
| Column 1 | Column 2 | Column 3 | Column 4 |
| Column 1 | Column 2 | Column 3 | Column 4 |
| Column 1 | Column 2 | Column 3 | Column 4 |

Below every table must have at least 3 sentences discussing what is inside the table. Interpretation of each data inside the table must be thoroughly discussed. Be mindful of following the format of the sample table.

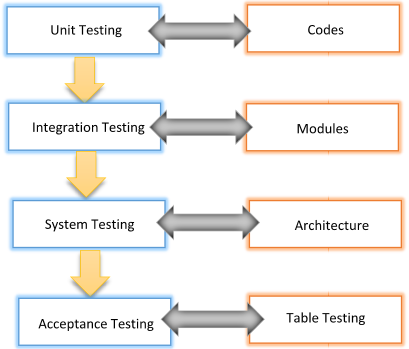


Figure 1. Sample figure for this format

The suggested height for the figure is 2.5 inches at most. While there will be no required size for width. Please be minded that your figure must be clear and readable.

**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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