**CHAPTER I**

**INTRODUCTION**

**Project Context**

Scholarships play a vital role in society by promoting education, fostering talent, and creating opportunities for individuals who might not have access to higher education due to financial constraints. They are essentially financial benefits given to students in accordance with their aptitudes, academic prowess, or other particular standards established by the scholarship sponsor. Scholarships creates an equal access to education by helping to bridge gap between students from different socio-economic background, ensuring deserving and equal opportunity to individuals who wants to pursue higher education regardless of any financial situation. Scholarships also recognizes rewards from different academic achievements, talents, skills, and other criteria that encourages individuals to join based on their abilities rather than their financial situation. Scholarships seek out and assist gifted people, developing their abilities and potential. Scholarships foster the growth of future leaders, professionals, and subject-matter experts by investing in these bright students. These people can then have a positive impact on society by effectively using their knowledge, abilities, and experiences.

Philippine education is essential to the advancement of society, the empowerment of individuals, the promotion of national progress, and the shaping of the country's future. The Philippines' education system includes possibilities for formal education, technical and vocational training, higher education, and lifelong learning. The key to realizing human potential is education. It gives people the knowledge, abilities, and competences they need to succeed in meaningful occupations, navigate life's complexity, and give back to their communities. Individuals are empowered by education, which fosters personal development and helps them achieve their goals and desires.

Additionally, education encourages social mobility and lessens inequality. It acts as a potent equalizer by giving students from all backgrounds the chance to obtain high-quality education and enhance their chances for success in life. The Philippine education system works to close the wealth-poverty gap by tackling educational inequities, giving marginalized people and communities the tools, they need to escape the cycle of poverty.

Philippine society places a great deal of value on education. It enhances civic involvement, empowers people, lowers inequality, stimulates economic growth, protects cultural heritage, and creates social cohesion. The Philippines can create a strong, inclusive society where everyone has an equal chance to realize their potential, make a significant contribution to their communities, and work together to create a wealthy, sustainable future for the country by investing in education.

Scholarship portals in the Philippines are online platforms that provide information and resources about various scholarship programs available to Filipino students. These portals aim to help students find and apply for scholarships that can help them achieve their academic and career goals. The following are known scholarship portals that helps students who seeks financial assistance for their education: **Commission on Higher Education (CHED) Scholarship Program** – This scholarship program is offered by the Philippine government through CHED. The program provides financial assistance to deserving Filipino students who want to pursue higher education. The scholarship covers tuition fees, other school fees, and allowances for living expenses. To apply for the scholarship, students must register and complete the online application form on the CHED website. **Department of Science and Technology (DOST) Scholarship Program** - The DOST scholarship program is another government-funded scholarship for Filipino students who want to pursue a degree in science, technology, engineering, or mathematics (STEM). The scholarship covers tuition fees, other school fees, and allowances for living expenses. Interested applicants may apply online through the DOST website. **Edukasyon.ph** - Edukasyon.ph is an online platform that provides information about various scholarship programs in the Philippines. The website features a scholarship search tool that allows students to find scholarships based on their qualifications and interests. Edukasyon.ph also offers tips and advice on how to apply for scholarships.

Common scholarship types that are mostly needed by students are Merit-based, Skills-based, Context-based and Needs-based. **Merit-Based** **Scholarships**: These scholarships are awarded to students who have demonstrated exceptional academic performance, such as high grades, outstanding test scores, or other achievements. Common requirements needed in these scholarships are the transcripts and grades of the students applying. **Need-Based Scholarships**: These scholarships are awarded to students who demonstrate financial need. Typically, this means that the student's family income falls below a certain threshold, and the scholarship is intended to help cover the costs of tuition and other expenses. The requirements needed in these types of scholarships are documents that certifies indigency. **Context-Based Scholarships**: These scholarships are designed to promote diversity and inclusivity within the student body. They may be awarded to students from underrepresented groups, such as ethnic minorities, women, or LGBTQ+ individuals. The requirements needed in these types of scholarships are documents that certifies indigency. **Skills-Based Scholarships**: Some web-based schools may offer scholarships to students who excel in sports or other physical activities. In these types of scholarships, try-outs are needed and an approval from the coaches that will be passed to the scholarship admins and students must sign a memorandum of agreement that will certify that students with failing grades cannot play on any games.

General Santos City, often referred to as GenSan, is a highly urbanized city located in the province of South Cotabato in the Philippines. On September 5, 1939, General Paulino Santos, a well-known military leader and politician in the Philippines, founded General Santos City. He led the region's colonisation, drawing settlers from Luzon and the Visayas, with the goal of creating an agricultural colony there. General Santos City once prospered as a center of agriculture, especially renowned for its large fertile grounds and production of products like corn, rice, and coconut. However, the city's economy diversified, and it became a significant hub for the fishing industry after it was discovered that there were extensive fishing grounds in the adjacent Sarangani Bay. General Santos City understands the value of education in its growth.

The local government and educational institutions have worked very hard to make sure that locals can receive high-quality education. From elementary to tertiary levels, the city boasts a large number of public and private schools to meet the educational demands of its residents. Numerous notable educational institutes are located there. For instance, General Santos City National High School is one of the biggest public high schools in the nation and offers thousands of pupils a top-notch secondary education. General Santos City acknowledges the value of education in its development. There are private colleges and universities that provide a variety of degree programs in areas including business, agriculture, engineering, health sciences, and more. The local government and educational institutions have worked very hard to make sure that locals can receive high-quality education. From elementary to tertiary levels, the city boasts a large number of public and private schools to meet the educational demands of its residents. Several universities and colleges in General Santos City offer their own scholarship programs. These institutions provide financial aid, merit-based scholarships, or talent-based scholarships to deserving students enrolled in their respective institutions. The eligibility criteria and benefits may vary depending on the specific scholarship program. Scholarship programs in General Santos City strive to give worthy students educational opportunities and support, however they could face some obstacles. Scholarship programs often face a high number of applicants, leading to intense competition. It is difficult to choose the most deserving individuals when there are few openings.

* **Rigid screening and evaluation** steps in the selection process could be time-consuming for scholarship providers.
* **Managing scholarship programs** requires a variety of administrative activities, including the processing of applications, determining eligibility, documenting, and distributing monies. For scholarship providers, these administrative duties can be taxing, especially when managing a large volume of applicants or when working with constrained staff and resources.
* Scholarship providers must **monitor the development and performance of recipients, guarantee adherence to program guidelines, and evaluate the results and long-term advantages of the scholarships**. Making informed judgments and enhancing the program's success can be hampered by improper monitoring and evaluation systems.
* **Monitoring scholarship recipients' retention and completion rates** is crucial. Retention and completion rates may suffer as a result of problems including financial limitations, unique situations, or academic issues.
* It is important to specify **what type of scholarships are being referred** to, such as academic scholarships, athletic scholarships, or need-based scholarships, among others.
* While many scholarships are sponsored by organizations or individuals, it is important to know **who the organizations are** eligible to sponsor and help applicant’s financial assistance.
* Some scholarships may only be available to students in certain fields of study or from specific backgrounds. It is important to research each scholarship to determine **who the possible applicants** are and if there are any restrictions or requirements.
* However, each scholarship may have different benefits, such as covering tuition fees, providing a stipend for living expenses, or offering academic support. It is important to know each scholarship to determine **what benefits are offered** and how they can benefit the student.

The project acknowledges the difficulties associated with the conventional paper-based scholarship application process for both applicants and scholarship administrators and other problems regarding the process of scholarship in General Santos City. While scholarship organizations may struggle to manage high amounts of applications and ensure fair and transparent selection processes, students may have trouble getting information on available scholarship programs or completing their applications on time. The project aims to address these issues and enhance the effectiveness and transparency of scholarship prpgrams in General Santos City by creating a web-based scholarship portal. Students can utilize the portal to easily search for scholarships, submit online applications, and check the progress of those applications. It will also allow scholarship the administrator to manage applications, review and evaluate applicants, and monitor scholarship recipients' academic proofs and compliance with program requirements.

In conclusion, obtaining proper scholarship grants can be challenging for many students due to a variety of factors. It is important for students to know different scholarship opportunities, meet all eligibility requirements, and submit a strong application to increase their chances of obtaining the financial support they need.

The problems given are solved by the programmers which the Web Scholarship Portal is in use for better and easier access of scholarships offered in certain schools. Since the problem focuses merely on the scholarship, the discussion and system are focused on finding greater solutions for both applicants and sponsors to update, communicate and apply with the help of the portal system created by the programmers.

**Purpose and Description of the Project**

The Web-Based Scholarship Portal in General Santos City project is purposely made for easy access and user-friendly management system of scholarship programs in the city by implementing an online portal that provides a centralized platform for scholarship-related activities.

A web scholarship portal serves as a centralized platform where students can find information about various scholarship opportunities. The purpose of a web scholarship portal is to make the scholarship search process easier for students and to increase the accessibility of scholarships.

Some of the key purposes of a web scholarship portal include:

1. Providing a comprehensive database of scholarship opportunities: A web scholarship portal serves as a one-stop-shop for students looking for scholarship opportunities. It provides a comprehensive database of scholarships that students can browse through and apply to.
2. Streamlining the scholarship search process: Searching for scholarships can be a time-consuming process. A web scholarship portal helps to streamline the process by providing a user-friendly interface that allows students to search for scholarships based on their eligibility criteria.
3. Increasing accessibility of scholarships: Many scholarship opportunities go unnoticed by students because they are not advertised effectively. A web scholarship portal helps to increase the accessibility of scholarships by providing a platform where organizations can promote their scholarship programs and reach a wider audience.
4. Ensuring transparency and fairness: A web scholarship portal can ensure transparency and fairness in the scholarship application process. It provides clear guidelines and eligibility criteria for each scholarship opportunity and allows students to submit their applications electronically. This helps to eliminate bias or favoritism in the selection process.
5. Providing support and guidance to students: A web scholarship portal can provide support and guidance to students throughout the scholarship application process. It can offer tips and advice on how to write a strong application, provide guidance on eligibility requirements, and answer any questions students may have.

In summary, the purpose of a web-based scholarship portal is to make the scholarship search process easier and more accessible for students. It helps to streamline the process, increase transparency and fairness, and provide support and guidance to students throughout the application process.

The project seeks to address the challenges faced by students and scholarship administrators in the traditional paper-based scholarship application process by providing an online portal that offers a centralized platform for scholarship-related activities. The project's purpose is to provide a user-friendly platform for students to search for scholarships, submit their applications online, and track the status of their applications. It also aims to automate administrative tasks and improve efficiency in scholarship management, reducing errors and streamlining processes, while improving transparency and accountability in the scholarship awarding process, building trust and confidence in the program.

The Web-Based Scholarship Portal in General Santos City project involves the development and implementation of a web-based platform that serves as a one-stop-shop for all scholarship-related activities. The portal provides a centralized database of information on available scholarship programs, eligibility criteria, application forms, deadlines, and other relevant details. Students can easily search for scholarship opportunities based on their qualifications and interests, submit their applications online, track the status of their applications, and receive notifications about scholarship awards and other updates. The portal also enables scholarship administrators to manage applications, review and evaluate applicants, award scholarships, and monitor scholarship recipients' academic progress and compliance with program requirements.

By providing an efficient and transparent platform for scholarship management, the project seeks to contribute to the city's development by enabling more students to access financial assistance and pursue their academic goals. Overall, the project is designed to increase access to financial assistance for students in General Santos City, helping them pursue their academic dreams and promoting human development in the city.

**Objectives of the Study**

The objectives of the Web-Based Scholarship Management Portal in General Santos City project are:

* To develop a convenient web-based platform for organizations to ease and organize evaluation and screenings.
* To develop a system portal for managing scholarship applications.
* To develop a platform that monitors reports and results of applicant’s scholarship performances.
* To develop a centralized database of information on available scholarship programs, eligibility criteria, application forms, deadlines, and other relevant details.
* To develop a user interface for administrator/s that overviews and verifies’ organizations’ legitimacy.
* To develop timely updates and information status of application.
* To develop basic information of financial assistance and benefits offered by organizations.

**Scope and Limitations of the Study**

**Scope**

The scope of a web-based scholarship portal focused on students in that are applying and re-applying for scholarship grants. Scholarships included in this system are:

Modules included in the system are subjected from 3 different users: Admin, Organizations and Students. Under these users are modules that indicates different features that only the said users can access.

**Admin Users** refers to an individual who has administrative privileges and controls various aspects of the portal. Admin users typically have enhanced permissions and responsibilities compared to regular users. They are responsible for managing and maintaining the scholarship portal, ensuring its smooth operation, and performing administrative tasks. Under this user are modules which gives function to the system.

**Dashboard** provides a basic report of number of registered organizations, active scholarship programs, and number of scholars, it serves as a comprehensive overview and functionality to streamline the scholarship process.

Next, **Organization** modules which allows the admin user to manage the application of organizations and their scholarship program. Under the Organization module are the sub modules which are the Review Organization and Organization List. The Review Organization modules allows the admin user to review and analyze organizations for their legitimacy in offering scholarship programs. This falls under the development of system for administrator to verify and overview organization’s legitimacy. Next sub module is the Organization List which serves as the table of accepted and verified organization and their scholarship programs which the admin user can view.

Another module under this user is the **Scholarships** module which serves as the listed scholarship programs and the scholars of applicants granted by the scholarship program along side the company or organizations’ name. Included in this module is a sub module List Of Scholarship which shows the table of listed and verified scholarship programs that is filtered by scholarship types; Merit-Based, Skills-Based, Context-Based and Needs-Based which the admin user can easily search for organization of the said scholarship type. User can then view applicants’ student number, name, gender, email address and requirements passed by the applicant.

Reports modules tab includes the report and analytics of the system. This includes the number of registered organizations, active programs, total number of scholars, total number of pending applicants and rejected applicants.

**Organization User** refers to a user account specifically created for organizations or institutions that offer scholarships. Organization users are distinct from regular users and admin users, as they have unique functionalities and privileges tailored to their role in the scholarship process.

**Dashboard** provides a centralized interface where the users can have an overview of the organizational chart of accepted scholars, rejected scholars, pending scholars and slot available.

**Scholarship** module serves as the form to add another scholarship programs of the user organization, the listed scholarship in the said user organization along side the applicants with an action to approve and decline application and lastly, is the list of accepted scholars which serves as the documented applicants to which whom ever re-applies of the same scholarship program. Under this module are sub modules which separates all the functions of the scholarship module.

The first sub module is the Add Scholarship which view as the form to fill up in order to add a request to the admin in adding up another scholarship program in the said organization. This then be viewed and accept by the admin user and be put into public as applicants can now apply.

The second sub module is the List of Scholarship. This module includes the scholarship name and the type of scholarship program filtered by scholarship type on Merit-Based, Skills-Based, Context-Based and Needs-Context. The user can then view the applicants’ application and has then the action to accept or reject application if it met the criteria and requirements of the said scholarship program. Under this are the tables with applicants’ listed names which is filtered by the scholarships’ requirement; Merit-Based are required to have grades 85 and up as a passing grade, Skills-Based are filtered by their skills such as sports or art, Needs-Based are filtered by the minimum to maximum household income, and Context-Based are filtered by their tribes such as Muslim and B’laan

**Students User**refers to an individual who utilizes the portal to search for scholarships, submit applications, and interact with the scholarship-related features and functionalities. Student users have distinct privileges and capabilities within the portal that are designed to cater to their specific needs as scholarship seekers. Upon signing up, students are to fill up their basic information that are required by the system which includes the Name, Age, Gender, Email, Username, Password and attachment of proof that they are enrolled in a school.

Modules under this user includes the **Dashboard** which serves as the overview of scholarship programs offered by various organizations. Scholarship Programs are then filtered by scholarship type, program level and application deadline. Under this user are modules which includes the functionality and purpose of the system provided.

**Scholarship** module is the overview of listed scholarship programs applied by the student and the status of their application. Students can view their application form, but they cannot edit the passed or under reviewed applications. This sures that the applicant is legit and is enrolled.

Under this module are sub modules which completes the operation and function of the system First sub module is the **Apply Scholarship** which includes the listed open scholarship programs and an action to *apply* and upon applying is the form which is automated fill in of basic information and an attachment for requirements.

Second sub module is the **Review Status** which includes the list of scholarship applied with their status as accepted, rejected, or pending. This module is intended as a viewing table for application status and users have an option to cancel application if the status is pending.

The third sub module is the **My Scholarship** which indicates the table of listed scholarship programs applied and has been accepted and still on going. Status of this table is Active or Inactive so that users can then re-apply if the slot is already open.

The second module is the **Notification** provides the receiving of updates and announcement form organization about the applicant’s application sent for every program chosen.

Help & Support provides automated assistance to users who require guidance or have inquiries regarding the scholarship application process or any other related matters. This module is subjected to have automated common error and question that the system may encounter.

Limitation

* Conferencing

The system is limited to conferencing since it doesn’t support videocalls that could be used as a virtual interaction between Organizations and Students.

* Reward System

The system is limited in giving a reward system for student users upon clicking and viewing of scholarship and exploring quest for the website like in the UI of Edukasyon.ph.

* Abroad Scholarships

The system is limited only for General Santos City scholarships program.

* Recommendations Module

The system is limited to school recommendations since it focuses on a process of applying in scholarship programs offered by organizations.

**CHAPTER 2**

**REVIEW OF RELATED LITERATURE**

This section covers the review of related literature pertaining to the variables considered in

this study. These include scholarships and web-based portals.

**1.1 FOREIGN LITERATURE**

**Scholarships**

Scholarships are financial aids or grants awarded to students to support their

education and academic pursuits. School scholarships are specifically granted by educational

institutions, such as schools, colleges, or universities. Furthermore, these scholarships are

offered to recognize and reward students who demonstrated exceptional academic

achievements, talent in specific fields, leadership qualities, or other notable accomplishments.

According to an academic article published by Johnson (2019) scholarship is defined

as financial support awarded to a student, based on academic achievement or other criteria

that may include financial need, for the purpose of schooling. Moreover, there are several

types of scholarships – the two most common being merit-based and need-based. Garcia

added a statement in the same article that students were typically awarded with scholarships

driven from a variety of factors, including - but not limited to, academic achievement,

departmental and community involvement, employment experience, areas of study, and

financial need. Thus, qualified students must maintain the required criterion from the donor

or department funding to enjoy the guarantee as long as they complied.

Similarly, an American professor named Smith (2020) categorized school scholarship

as a grant to students who possess exceptional talents in various areas. These talents can

include artistic abilities, musical aptitude, athletic prowess, or skills in specific subjects such

as mathematics, science or writing. Smith added that most universities and schools recognize

and support students with these talents by providing scholarships to nurture their skills and

encourage further development.

Williams (2019) published an article defining scholarship as an academic pursuit of

knowledge and the development of expertise in a particular field or discipline. He also added

that scholarship encompasses engaging in rigorous research, critical thinking, and intellectual

exploration to contribute to the existing body of knowledge. Additionally, these also include

the activities such as conducting original research, analyzing and interpreting data, publishing

findings in scholarly journals or books, presenting research at conferences, and engaging in

academic discourse with peers. Miller (2022) added a response that scholarship may also

involve the association of higher education institutions and its component towards advancing

the understanding and innovation fields of competent and qualified students.

Another article defined scholarship as financial aid awards designed to help students

pay for an undergraduate or graduate degree. Sometimes a scholarship comes in a one-time

check. Other scholarships are renewable and provide students with money each semester or

school year (Appex, 2021). The article highlights the concept of scholarships to students

are directly or indirectly granted through cash. Most students who were awarded to receive a

scholarship must be considered according to their financial need. Therefore, factors such as

your family income, assets, and other circumstances that may impact the student’s ability to

pay for college is factored into the eligibility decision.

**1.2 Web-Based Portals**

A web-based portal is a platform that collects information from different sources into

a single user interface and presents users with the most relevant information for their context.

(Grannan, 2020). In the past few years, simple web portals have evolved into portal platforms.

that support digital customer experience initiatives. In recent years, this platform has been

beneficial to the healthcare field, government, business industries and education field

particularly towards students, teachers, administrators and school policymakers.

An article was published by the Codeless Platform (2021) in which the article defined

a web portal as a web-based platform that provides teachers, students and administrators with

a single access point to information. Moreover, a web portal can be used to provide the user

with personalized information such as employee training, safety manuals or a customer

profile (Lopez, 2019). A web portal can also be used in the business industry to enhance the

collaboration of information and improve the way employees, customers and suppliers can

effectively and efficiently communicate to business transactions.

In the context of education, Anderson (2020) published an article which defined a

web-based portal as an online platform, specifically designed to support learning and

academic activities. This platform was further interpreted in this article as a centralized hub

where students, teachers, administrators, and parents can access and check a wide range of

educational information, tools and resources. Furthermore, the portal also acts as a virtual

gateway to course materials, assignments, grades, schedules and communication channels,

providing a seamless and convenient interface for all stakeholders in the educational process.

Thus, this web-based educational portal was further classified as an effective tool for

collaboration, engagement and access to educational content.

Furthermore, a web based portal in the education field was also defined by Hernandez

(2019) as a secure online space that promotes effective communication and collaboration

among students and educators. This platform was also interpreted in this section as an

efficient tool which offers modern features such as discussion boards, messaging systems,

and group workspace, enabling learners to interact, share ideas and collaborate on projects.

Moreover, students can access course materials through this portal and students can also

receive feedback, and engage with their instructor in online discussions. Thus, teachers can

also use the portal to deliver content, provide timely feedback, and facilitate virtual classroom

activities through adapting web-based technology which will allow the enhancement of

education connectivity and enable meaningful interactions beyond the physical classroom.

Similarly, in the realm of online learning, a web based education portal plays a crucial

role in delivering courses and facilitating distance education (Lewis, 2022). Web-based portal

was further classified by Lewis as a virtual classroom where students can access lectures,

multimedia resources, quizzes, and assignments, regardless of their geographical location.

Moreover, the portal may also incorporate features such as video conferencing, live chat, and

virtual labs to stimulate interactive learning experiences. Moore (2022) added that through

web-based portals learners can track their progress, participate in discussions, and seek

assistance from instructors or peers. Thus, it also enables both teachers and learners for

flexible and self-paced learning, allowing individuals to acquire knowledge and skills at their

own convenience.

Clark (2021) also highlights in his article citing his own interpretation for web-based

portals in the modern and digital education world. According to Clark’s article web-based

portals can also provide access to additional support services and resources that enhance the

overall educational experience. In the article the experiences are classified as features such as

academic advising, library resources, career services and student organizations. Wilson

(2022) added that this portal acts as a one-stop-shop where learners can access important

information, seek guidance,and explore opportunities beyond the classroom. Thus, with this

web-based portal educational institutions can streamline administrative processes, such as

registration,course enrollment and financial aid applications to easily simplify access to

essential resources and contribute to a more efficient education; ecosystem.

The literature mentioned above are the different definitions from several authors who

had explored the concept of the variables evident in this study. Thus, the aforementioned

definitions can greatly contribute to the researchers to better understand the topic being

studied and covered.

**1.2 LOCAL LITERATURE**

**Scholarship**

In the Philippines, students who are enrolled in private schools and universities must

be financially stable in order to cover expenses such as books, transportation, food, housing,

tuition, and other related expenses. This is one reason scholarships in the Philippines help

students to cut down on big school costs. In an article published by Dela Cruz (2019) he cited

that there are several s[cholarships](https://scholarshipsph.com/category/scholarships/) available, and most students are looking for scholarships

that will help them pay for this significant investment. Moreover, scholarship grant in the

Philippines provide great aid for Filipino families who are struggling financially to sustain

the students' education fees.

An article published by Salvador (2020) a professor in one of the prestigious schools

in the Philippines defined scholarship as a form of financial assistance given to a student to

help pay for their education. In this article it highlights that scholarships are considered "gift

aid” and do not have to be repaid. Some of the mentioned scholarship grants in this article are

the merit based which consist of strong academic achievement and civic contributions,

another is need based which is demonstrated financial need, and lastly the performance based

which encompass the participation in an activity or program. This grant serves as a big

contributor to the Filipino students to receive quality education through paid excellence based

on the organizations criterion.

Similarly, scholarship is also explicitly an award of financial support for a student to

further his or her education (Dimaano, 2020). Dimaano added in his literature that for

students who aspire to receive a scholarship must follow the criteria which reflects the values

and purpose of the donor. These donors come in various platforms or agencies. It could be

from the Philippine government, non-government organizations or scholars of business

industries. Thus, the author added that this scholarship money grant is commonly not repaid

as long as the student deserves the slot for the scholarship they can use this up until they

finish their degree courses.

Furthermore, Ramirez (2020) also defined scholarship as a form of financial aid for

students provided by governments and private institutions. In an article published by Salazar

(2021) he mentioned that scholarships are usually provided to Filipino students for further

studies related to under-graduation or post-graduation courses. Students who are qualified to

the intended criteria are awarded based on academic merit, diversity and inclusion, athletic

skill, and financial need. In addition, scholarships usually show the good values of an

organisation and also highly depend on their academic history or other activities like their

achievements in sports or any extracurricular activities which are notable and will help in the

student's career.

Gonzalez (2019) added her own interpretation to scholarship as something that a lot

of students look into when going to university and all schools will offer financial support to

their students. Gonzalez highlights that scholarships usually come from independent third

parties, although universities do offer them too, this means that schools are free to draw up

their own criteria for scholarship qualification. Thus, students should take value of their

academic performances since most of the organizations who give scholarships depends and

look for students' academic competence.

**Web-Based Portals**

A web-based portal in the Philippines context is seen to be an online platform that

serves as a central hub for accessing information, services, and resources related to a specific

organization, government agency or industry. According to Castillo (2022) web-based portal

is designed for users with a convenient and user-friendly interface to access a wide range of

online services, such as government forms, applications, payment systems, and information

databases. These portals are accessible through a web browser and are typically developed

and maintained by the respective organizations or agencies to streamline their operations and

enhance the user experiences.

Tolentino (2021) a filipino journalist defined web-based portal in education field

context as an online platform which aids educational institutions, teachers, students, and

parents. Tolentino highlighted the usefulness of this web-based portal especially at the verge

of pandemic where students are obliged to conduct their study in an online based platform.

These portals truly serve as digital hubs for students and teachers that offer a wide range of

educational resources, tools, and services accessible through a web browser. Ungcad (2022)

added a response that the purpose of these portals is to streamline administrative tasks,

enhance communication and collaboration and bridge the gap of economic crisis with an

interactive learning space.

Similar literature provided their insights about web-based portals as such Reyes

(2021) interpreted web-based portal as an online course management system where teachers

can create and manage virtual classrooms, upload course materials, assign and grade

assignments and facilitate online discussions. Reyes also expounds that these resources are

crucial for students as they can explore course subjects beyond the classroom and enhance

their understanding of various topics.

In line with these, Rivera (2019) acknowledged the availability of web-based portals

in the education field as a tool which revolutionized the teaching and learning process in the

Philippines. Rivera also highlights that these portals have facilitated the transition to blended

or online learning, especially during times of disruption, such as the COVID-19 pandemic.

Through this platform it enabled the Philippine educational institutions to continue delivering

lessons remotely and provided students with continuous access to learning materials

Thus, the literature provided above provided a comprehensive background about the

different interpretations and definitions of different authors. Despite the different definitions

it signifies the overall purpose for the scholarship variable it only indicates that scholarship is

intended to give students financial aid to sustain their study. On the other hand, web-based

portal are defined to be and effective and efficient platform for individuals including teachers

and students which promote collaboration, communication, personalized learning experiences

and foster dynamic and inclusive education for students across the Philippines.

**2.1 FOREIGN STUDY**

**Scholarship**

A study conducted by Carini (2019) about the Relationship Between Scholarship and

Student Success: An Art and Design Case Study, the study explored the financial predictors

of student success through a unique sample of students from the art and design college and by

considering a number of variable interactions. The study encompasses the institutional

scholarships that emerged as the strongest predictor of student persistence, progression, and

timely graduation in all models explored. The result of the study suggests that institutional

scholarships significantly impacted student success across all measures: hours attempted,

hours earned, and graduation within six years of entry. In fact, the impact of institutional

scholarships was stronger than all other variables included in all models, though other awards

for need-based aid and estimated family contribution were also important.

Similar study was conducted by Leslie (2020) about the college student grant study

entitled, the effectiveness of student grant and scholarship programs in promoting equal

educational opportunity. The study sought to examine the scholarship and grant in California,

New Jersey, New York, and Pennsylvania as to which extent the program goal is being

achieved to students. The results of the study shows that these state aid programs (1) induce a

substantial number of students from low-income families to attend college, although they fail

to have much impact on the very lowest income students; (2) are particularly helpful to

women; and (3) overall, are responsible for the postsecondary attendance of nearly one half

of the aid recipients.

Furthermore, a study conducted by Zabala (2020) entitled “The Role of Scholarships

in Enhancing International Collaboration in Higher Education” focuses on exploring the

significance of scholarships in fostering international collaboration within the realm of higher

education. The study investigated the influence of scholarship programs and collaborative

research initiatives among institutions and individuals from different countries. The result of

the study depicts that scholarship plays a vital role in enhancing international collaboration

within higher education. The study suggests further examining the experiences and outcomes

of scholarship recipients and considering institutional perspectives to further understand how

scholarships can promote a cross-border partnership and collaborative research endeavors.

Another research study conducted by Chang (2021) a Taiwanese student explored the

impact of government-funded scholarship on human capital development. Chang sought to

determine in the study the effects of government funded scholarship on human capital

development. In the study, the researcher defines human capital development as a process of

acquiring knowledge, skills and abilities that contribute to individual and societal growth and

productivity. The result of the study depicts that it is crucial to consider the individual’s

outcomes, mechanism and comparative aspects as it can potentially influence the person’s

growth, economic prosperity and societal well-being.

**Web-Based Portal**

In Benin, Nergia a study entitled “The Usability of Web Portals in Fostering Social

Learning, a research conducted by Oliha (2019) evaluated the efficacy of social-academic

platform as one of the vital services that foster collaborative learning towards the increase of

usage in academic web portals. The study encompasses the absence of the social and

academic aspects in the context of the platforms available to the institutions in the study has

resulted in usability concerns and reduced usage for interactions between their vital

stakeholders - tutors and students. The result of the study suggests that the social academic

web portal platform in the era of the pandemic is adaptable, usable, and can be used to foster

social academic interactions between lecturers and students in learning institutions, and

therefore increase the web portal’s usage.

Another study was conducted by Tervakari (2018) the effectiveness of web-based

learning environments. The study sought to describe an evaluation tool based on

multidisciplinary evaluation of web-based learning. The researcher of the study believes that

a teacher can be an evaluator who can hardly be an expert on all the fields of science needed

in evaluation. The evaluation tool, which is a multidisciplinary evaluation framework, has

been created to help the evaluators pay attention to the critical factors of quality of web based

learning. The result of the study depicts that the multidisciplinary evaluation framework is an

effective tool which can help the evaluators to control the evaluation process and gather

essential information. Moreover, the result also shows that the tool can be used over the

internet as it may serve as a great resource for other evaluators.

Similarly, Zapotocky (2022) conducted a study about the Multipurpose GIS Portal for

Forest MAnagement, Research and Education encompasses the detailed analysis of user

preferences from the perspective of forest research, management and education. The study

proposed to develop a web-based geographic information system (GIS) that can be used in

lectures as well as in forestry practice and research projects, while the authors of other studies

mostly focused on specific solutions. The result of the study found significant differences in

the requirements of different user groups for some components of the web-based GIS. In

general, students were very open to new technology and learning approaches. The

web-mapping applications give students access to real geographic data on forest stands and

facilitate close engagement with forest research and management. Online maps and

geographic analysis tools helped explain and understand important forestry topics.

In Georgia, the situation in general education has changed in the spring semester of

2020, when the first case of coronavirus COVID-19 infection was detected. Given these

situations, a student researcher named Basilaia (2020) conducted a study about Transition to

Online Education in Schools during a SARS-CoV-2 Coronavirus (COVID-19) Pandemic in

Georgia. The study reviews the different available platforms and indicates the ones that were

used by the support of the government, such as online portal, TV School and Microsoft teams

for public schools and the alternatives like Zoom, Slack and Google Meet, EduPage platform

that can be used for online education and live communication and gives examples of their

usage. The researcher expounded the study by conducting a case study where the Google

Meet platform was implemented for online education in a private school with 950 students,

showing the usage statistics generated by the system for the first week of the online education

process. Thus, the result of the study depicts that the quick transition to the online form of

education was successful and gained experience that can be used in the future.

**2.2 LOCAL STUDY**

**Scholarship**

In the Philippine context, a study was conducted by an undergraduate student named

Cagasan (2021) about the Graduate Students' Perceived Contribution of Scholarship Grants to

Academic Success. The study explores the perspective of graduate students towards the

contributions of scholarship to their academic success. The study encompasses the

experiences shared by the scholar-respondents and those who participated in the FGD

indicate that availability of scholarships/financial grants facilitated the overall academic

success of students. The result of the study depicts that scholarship gave the scholars a

constant motivation to persist and perform well academically resulting to the timely

completion of their graduate degrees. Aside from that, it also allowed them to improve their

competencies in their fields of specialization, boosted their self-confidence, and opened better

opportunities for career establishment and/or development.

Similar study was conducted by Zabala (2019) about the Economically Deprived and

Marginalized Scholars: Their Lifestyles, Experiences, Challenges and Aspirations. The study

was focused on discovering the lifestyles, experiences, challenges and aspirations of the

economically deprived and marginalized scholars who enrolled at Nueva Ecija University of

Science and Technology System. The study encompasses the respondents’ lifestyles and

similarities as they kept maintaining their relationship towards their beliefs. The results of the

study shows that financial assistance of the scholars was not enough to support their semester

expenses, thereby resulting in usurious loans. The respondents were challenged on the late

issuance of their scholar fund support from the sponsoring agency; late submission of grades

delayed them claiming their fund support, and tedious preparing of documents. Thus, The

scholars expected that the financial assistance was instant, however, that there are long

processes to be done. For this reason, it causes the delay of the financial assistance, thus it is

not given in time.

Furthermore, a study entitled, “The Impact of Scholarship Program to the Grade 11

students of University of The East Caloocan” was conducted by Ferrer et al (2019) explores

the implementation of scholarship programs in schools especially in the University of the

East Caloocan Campus. In the study, the scholarship program is categorized as an aid and the

financial assistance given by the government or the school to the students that experienced

insufficient amounts of expenses like tuition fees that cost high- priced amount of money. The

result of the study shows that scholarship grants are important, for the reason that it helps the

students who are experiencing financial problems. Also, students state that financial

assistance is a need for the students to support their needs.Thus, the result of the survey

shows that the students of the University of the East – Caloocan find scholarship programs

helpful to them.

**Web-Based Program**

A thesis study conducted by Gante (2018) about the proposed Web Portal for the

College of Computing and Information Technology in Cauyan, Isabela explores the possible

advantages of the web portal for faculty, students and college and to verify if there is really

no significant difference on the response of the two groups of respondents. The study’s main

goal is to describe the data and characteristics about what is being studied. The idea behind

this type of research is to study frequencies, averages, and other statistical calculations

which the research deemed appropriate to use. The result of the study shows that there is no

significant difference in the response of the two groups of respondents. Thus, the researcher

suggests adopting a web portal for college students.

Bartlome (2018) conducted a study about the Effectiveness of Mobile Web-Based

Student Integrated Information System in Manuel S. Enverga University Foundation in

Lucena City, Philippines. The study explores a conducive and structured information

exchange environment for the students in which a system was developed to help the students

check their academic result every end of the semester, making self-enlistment that would

assist the students to manage their academic status that can be viewed in their mobile phones.

The result of the study implies that evaluation for the prototype yielded a general weighted

mean of 4.44 that describes the respondents strongly agree that the developed system was

acceptable.

Further study was conducted by Astorga et al. (2019) about the use of web based

online portal with grades notification via sms. The study explores the student perspective

towards the implementation of web-based portal to reduce the hassle and more con/enient for

the students to inquire their grades, accounts, class schedule and updates through websites.

The result of the study indicates a positive response towards the students to implement the

proposed web-based portal as a monitoring tool towards their academic performances.

Montoya (2018) proposed to develop a Web-Based Student Portal of constituents in

Quezon City University. The study sought to provide a system that will eventually use by the

QCU students to improve the efficient way to connect to the university and its information.

The study sought to provide students with a system that would improve the student’s

productivity and satisfaction since they can keep track of their day-to-day activities, check

topics for discussion, materials for their activities, schedules and grades. Thus, the result of

the study implies a majority support from the QCU students as they can easily access

personal school information and to maximize their school monitoring.

Similar study was published by Aguinaldo (2019) about the efficacy of student

portals. The study was made to provide students with a system in which they can manage,

and maintain for their benefit. Aguinaldo as a researcher sought to provide a student portal in

their school in St. Vincent College of Cabuyao in City of Cabuyao, Laguna that shall contain

student related information in order for the students to freely see it anytime. Thus, the result

of the study indicates that the majority of the students in St. Vincent College of Cabuyao

agree to the effectiveness of the student portal as it serves as a handy tool for them to check

their school outcomes and performances.

**CHAPTER III**

**TECHNICAL BACKGROUND**

**Overview of Current Technologies to be Used in the System**

The development of the "Web-Based Scholarship Portal in General Santos City" requires a solid technical foundation to ensure the efficient and secure functioning of the online platform. Here are some key technical aspects that need to be considered for the project:

* Web Development: The scholarship portal will be developed using web technologies such as HTML, CSS, and JavaScript. These languages will be used to create the user interface and front-end components of the portal, ensuring a responsive and user-friendly design.
* Backend Development: The portal's backend will require a server-side programming language such as Python, PHP, or Java. This will handle the processing of user requests, authentication, and communication with the database. The developers used PHP in developing the backend.
* Database Management: A relational database management system (RDBMS) like PHP MyAdmin will be utilized to store and manage scholarship-related data. The database will include tables for student profiles, scholarship listings, application details, and document uploads.
* Security: Security measures must be implemented to protect the sensitive information stored within the portal. This includes secure user authentication, data encryption, and measures to prevent unauthorized access or data breaches.
* PHPMailer: This is used for email verification upon registering of account for organization and student users.
* File Upload and Verification: The portal should provide a secure mechanism for students to upload their application documents. File upload functionality can be implemented using technologies like AWS S3 (Simple Storage Service) or similar cloud storage services. Additionally, the portal can utilize algorithms or libraries for document verification and integrity checks.
* Responsive Design and Cross-Browser Compatibility: The portal should be designed and developed to be responsive, ensuring compatibility across different devices and screen sizes. It should also be compatible with major web browsers such as Google Chrome, Mozilla Firefox, and Safari.
* Testing and Quality Assurance: Rigorous testing, including unit testing, integration testing, and user acceptance testing, should be conducted to ensure the portal functions as intended and is free from bugs or errors.
* Hosting and Deployment: The portal needs to be hosted on a reliable web server and deployed to ensure it is accessible to users. This may involve selecting a suitable hosting provider, configuring server infrastructure, and setting up domain and SSL certificates for secure communication.
* Scalability and Performance: The portal should be designed with scalability in mind to accommodate a growing number of users and scholarship applications. Performance optimization techniques, such as caching mechanisms and database indexing, can be employed to ensure smooth and efficient system performance.

By considering these technical aspects and utilizing appropriate technologies and frameworks, the "Web-Based Scholarship Portal in General Santos City" can be developed to meet the desired requirements and provide an efficient and user-friendly platform for scholarship application and management.

**Calendar of the Activities**

The listed activities below are the proponent’s both completed and on-going activities during the completion of the project proposal:

Students were instructed to form groups during the second week of February for Capstone 1. As part of the course requirements, students had to create groups consisting of two (2) to four (4) members to collaborate on a project. In the second week after forming the groups, the students developed research titles based on their areas of interest. During the third week, the students defended and selected their final project titles by presenting them to a panel of experts.

In the fourth week of March, the students selected a project adviser who would guide them throughout the project. In the fifth and sixth weeks, the students began working on their system's mock-up design and the introduction chapter of their project documentation. This involved conducting research and making revisions. This activity continued into the ninth week when the students gathered data and completed revising Chapters 1 and 2 of their documentation.

During the same period, the students also started developing the Admin User, Organization User, and the Student User of the system. The Admin Module focused on managing users and generating reports. The Organization User manages the scholarships and the applications of applicants. The Student User includes the application and status tracking. The development of these users, modules and their design and functions has been ongoing since the previous week. The system development is still in progress.

In the tenth week, which occurred in the second week of April, the students worked on creating Chapter III: Technical Background of their project documentation. This activity is still ongoing, with the documentation undergoing revisions and being checked by the project adviser. Simultaneously, the students are continuing the system development, focusing on the modules for owners, seekers, and administrators.

The Owner Modules include Post Property, Visit Schedule, Reservation, FAQ, About Us, and Reports (Property List, Visit Reports, Reservation Reports). The Seeker Modules consist of Search Location, Reservation, Schedule Visit, Profile, and various Admin Modules such as User Registration (Owner Module, Admin Module), Map, and Reports (User List Report, Property List Report). This activity began in the second week of March and is currently in progress.

The chart below is a Gantt chart that summarizes the activities carried out by the proponents throughout the duration of working on and creating the project proposal. The chart provides an overview of the activities, and it includes activities that have already been completed (highlighted in blue), activities that are currently in progress (highlighted in yellow), and activities that are yet to be done (highlighted in red).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **MONTH**  1 Gantt Chart of Activities | **FEBRUARY**  **2023**  5  2  3  4 | | | | **MARCH**  **2023**  9  7  8  6 | | | | **APRIL**  **2023**  13  12  11  10 | | | | **MAY**  **2023**  17  16  15  14 | | | | **JUNE**  **2023**  21  20  19  18 | | | | **JULY**  **2023**  25  24  23  22 | | | | **AUGUST**  **2023**  29  28  27  26 | | | | **SEPTEMBER**  **2023**  33  32  31  30 | | | | **OCTOBER**  **2023**  37  35  36  34 | | | | | **NOVEMBER**  **2023**  41  40  39  38 | | | | **JANUARY**  **2024**  44  43  42 | | | |
| **ACTIVITY** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |
| Formation of Group |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| Formation of Research Titles |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| Title Defense |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| Project Adviser Selection |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| Writing of Formal Letter for  DTI Inquiry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| On-site visitation and Data  Gathering |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| Mock-up Design |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| Database Diagrams (ERD, DFD) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| Documentation  (Chapter I, II, III) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| Writing of Formal Letters for Host Company |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| Mock Defense with Adviser and Panelist |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| Submission of Endorsement form to the Project Adviser |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| Revision of document after Mock Defense |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| Acquiring the Endorsement form to be sent to Capstone coordinator |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| **Capstone 1 Final Defense** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |

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| **MONTH** | **FEBRUARY**  **2023** | | | | | | | | | **MARCH**  **2023** | | | | | | | | **APRIL**  **2023**  13  12 | | | | | | | | **MAY**  **2023**  16  17  15  14 | | | | | | | | **JUNE**  **2023**  21  20  18 | | | | | | | | **JULY**  **2023**  23  22  24 | | | | | | | | **AUGUST**  **2023**  28  26 | | | | | | | | **SEPTEMBER**  **2023**  32  30 | | | | | | | | **OCTOBER**  **2023**  36  35  34 | | | | | | | | **NOVEMBER**  **2023**  41  40  39  38 | | | | | | | | **JANUARY**  **2024**  44  42 | | | | | | |
| **ACTIVITY** |  | |  | |  | |  | | |  |  | | |  |  | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | | 37  33  31  29  27  25  19  11  10  9  8  7  6  5  4  3  2  1 | |  | |  | |  | |  | |  | |  |  | | |  | |  | |  | |  | |  | |  | | 43 | |  |  | |
| System Development | |  | |  | |  | |  |  | | |  |  | | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | | |  |  | |  | |  | |  | |  | |  | |  | |  | | |  |
| Database Management | |  | |  | |  | |  |  | | |  |  | | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | | |  |  | |  | |  | |  | |  | |  | |  | |  | | |  |
| Chapter IV: Methodology, Results and  Discussion | |  | |  | |  | |  |  | | |  |  | | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | | |  |  | |  | |  | |  | |  | |  | |  | |  | | |  |
| Chapter V: Conclusion and  Recommendation | |  | |  | |  | |  |  | | |  |  | | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | | |  |  | |  | |  | |  | |  | |  | |  | |  | | |  |



### Gantt Chart of Activities

**Resources**

Resources that are needed and being used by the proponents/developers by the users of the system:

**Hardware**

* Laptop

A laptop with an alphanumeric keypad, screen display, CPU, Memory and hard drive is essential for development. A laptop with at least:

* Processor: at least Intel Core i3-7130U
* RAM: at least 4GB or above
* HDD: at least 256GB

**Software**

**Programming and Development**

* PHP

It is a multifunctional web development scripting language used to create dynamic web pages, help developers develop web-based systems, and manipulate databases.

* HTML

It is a markup language used to create documents that can be viewed in a web browser, helping developers structure the web-based component of the system.

* JavaScript

A programming language that enables developers to add dynamic activity to webpages. It allows for the integration of dynamic interactivity into the system.

* PHPMyAdmin

PhpMyAdmin is a free and open-source SQL administration tool used for manipulating databases with a GUI interface. It is commonly used by developers to access online databases.

* CSS

Cascading Style Sheets is a language used to create style sheets to format the layout of web pages for documents presented in HTML. It helps developers add style to the HTML part of the system.

**IDE**

* Visual Studio Code

Developers can build, edit, and debug code with the help of Microsoft's integrated development environment before publishing an app. It is a Microsoft-made code editor that is employed in the development of websites.

**UX Designing and Wireframe**

* Figma

a modern, efficient design tool that automates and integrates the developer handoff process. It helps the developer create wireframes and UI designs, which provide a framework for the website's appearance and design, making it aesthetically pleasing and user-friendly.

**Web Testing Tool**

* XAMPP

Apache, MySQL, PHP, and Pearl are cross-platform web and PHP that build an easy to install distribution for developers to get into the world of Apache and a server that allow developers to live test the functionality of the system and its components.

**Documentation**

* Microsoft Word

A word processor developed by Microsoft that is used by the developer for the creation and compilation of the documentation of the system.

* Microsoft PowerPoint

a presentation program developed by Microsoft that is used by the developers for the presentation and discussion of the system.

* Microsoft Excel

a spreadsheet software developed by Microsoft that is used for the analysis and interpretation of the data in connection with

**Budgetary Estimate**

During the study duration, the researchers estimated that they will spend money on the following resources:

|  |  |  |
| --- | --- | --- |
| **Quantity** | **Specifics** | **Approximate Cost** |
| 1 year | Hosting Subscription | ₱ 2,500 |
| 4 reams | Bond Paper | ₱ 880 |
| 9 months | Ink | ₱ 1,500 |
| 9 months | Commuting fare | ₱ 4,000 |
| 9 months | Food and Beverage | ₱ 3,000 |
| 1 month | Defense fee | ₱ 570 |
| Additional | Contingency Fund | ₱ 2,000 |
| **Total** |  | ₱ 14,450 |
| **Approximated Cost:** |  | ₱ 14,450 |

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A signature on a black background

Description automatically generated with medium confidence**Hance Henley S. Galvez Carlo B. Lingat**

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Description automatically generatedProponents Proponents

**Gelline P. Velasco Erika Herriet L. Vicencio**

Proponents Proponents

**Mrs. Lorelie S. Galvez Mrs. Estilita B. Lingat**

Hance Henley S. Galvez’s Parent Carlo B. Lingat’s Parent

**Mrs. Maria Dailen P. Velasco Mrs. Sheila Grace L. Vicencio**

Gelline P. Velasco’s Parent Erika Herriet L. Vicencio’s Parent