

WEB-BASED QUERY SYSTEM FOR UNIVERSITY OF RIZAL SYSTEM
BINANGONAN CAMPUS

A

Capstone Project

Presented to the

Faculty of College of Computer Studies

University of Rizal System

Binangonan, Rizal

In Partial Fulfillment

of the Requirements for the Degree

Bachelor of Science in Information Systems

MARIELLA B. BUQUE
CARL KIAN C. BALIAT
JAYED ANDREI V. ANORE
RHEABELLE V. CAPAYAS

May 2023

APPROVAL SHEET

This Capstone Project entitled WEB-BASED QUERY SYSTEM FOR UNIVERSITY OF RIZAL SYSTEM – BINANGONAN CAMPUS has been prepared and submitted in partial fulfillment of the requirements for the degree Bachelor of Science in Information Systems by Mariella B. Buque, Carl Kian C. Balias, Jayed Andrei V. Anore and Rheabelle V. Capayas who are hereby recommended for corresponding oral examination.

January 13, 2023

ARISTOTLE C. MAYORCA, MSIT

Date

Adviser

Approved in partial fulfillment of the requirements for the degree Bachelor of Science in Information Systems by the Oral Examination Committee with a rating of _____.

ALKING P. SUNGA, MSIT

Member

NEIL JOHN P. ALBITO, MM

Member

YVES XAVIER S. CANDELARIA, MSIT

Chairman

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

Date

JOY SG. CRUZ, PhD (Cand.)

Dean, CCS

ACKNOWLEDGEMENT

The Project Team would like to extend their sincere thanks and gratitude to the following who have contributed and supported them in the fulfillment of the project.

First and foremost, praises and thanks to GOD ALMIGHTY, for His showered blessings, wisdom, guidance and strength that He gives to the Project Team.

DR. NANCY T. PASCUAL our University President for continue supporting and be a guidance to all students of the University of Rizal System.

DR. JOANNE S. CONCEPCION our Campus Director for the guidance and support to all students of the University of Rizal System Binangonan.

DEAN. JOY SG. CRUZ our College of Computer Studies Dean for all the suggestions and knowledge she shared to the Project Team.

PROF. JOYCE LYN M. ABAOAG our Information Systems Dean for patience, comments, knowledge and all out support to the Project Team.

PROF. ALKING P. SUNGA our Information Technology Dean and our Panelist Member for the suggestions, advice, and knowledge that the Project Team received during the Pre-Oral Defense.

PROF. YVES XAVIER S. CANDELARIA our Capstone Defense Chairman for the suggestions and knowledge that the Project Team received during the Pre-Oral Defense.

PROF. NEIL JOHN P. ALBITO our Panelist Member for the advice and additional information that the Project Team received during the Pre-Oral Defense.

MR. ARISTOTLE C. MAYORCA our Research Adviser for the suggestions, encouragement, advice, and knowledge that was shared to the Project Team.

Also, to the FAMILY, RELATIVES, AND FRIENDS, for their deep consideration for the finances and undying support throughout the making of Capstone Project. As well as their words of encouragement to all those days and nights we've spent making the Capstone Project.

-The Project Team

DEDICATION

The Project Team dedicate this project to God almighty, which source of the project team's strength and wisdom.

Parents of each and every member of the project team that giving moral support to the project team.

To Students and Faculty Staffs that will be part of the project.

And lastly, to the Professors that will serve as the guidance that will help the Project Team to conduct and successfully finish the system.

Mariella

Carl Kian

Jayed Andrei

Rheabelle

ABSTRACT

Title WEB-BASED QUERY SYSTEM FOR URSB

Project Team: Mariella B. Buque
Carl Kian C. Balat
Jayed Andrei V. Anore
Rheabelle V. Capayas

Course: Bachelor of Science in Information Systems

Academic Year: 2022-2023

Type of Document: Capstone Project

Number of Pages: 94

College: College of Computer Studies

Address of Institution: Manila E Rd, Binangonan, 1940 Rizal

This Project focuses on developing a Web based query system for the offices of University of Rizal System Binangonan Campus during the academic year 2022-2023.

The system will developed using the PHP, HTML, and CSS. The web-based query system will be use for the registrar, library, health office and the Office of the Student Development Services (OSDS).

The Registrar can answer all concerns of the student about documents they need and for their requirements, the library can use this system to easily reach students who want to borrow books and those who want to studied in the library, health office which can use this to access and reach students that have

any symptoms of viruses, coughs or flu that can lead to high risk to other students and faculty.

On the other hand, for the office of the student development services the admission can use this to gathered all student information that will be enrolling in upcoming semester, while the Guidance can use this system to acknowledge and hear students concerns academically and personally, OJT and Placement can use this to engage with the student that want to do their work immersion on the campus, lastly the Scholarship and Finance Assistance can use this to easily reach the campus students that want to have scholarship program and financial support in their education.

The proposed system will be having features like secure login and logout, officers' profiles, chat bot, highlights or bulletin per offices, settings and feedback form for system enhancement. While for the admins overview, they will have a student information, publishing highlights, and organize messaging queue.

There was a total of fourteen (14) respondents of the study which are comprises of two (2) super admins to monitor and manage the system. seven (7) admins per offices such as the registrar, library, health office, admission, guidance, OJT and placement and Scholarship and finance assistance. while five (5) randomly pick students of URSB who will validate the system.

TABLE OF CONTENTS

	Page
TITLE PAGE.....	i
APPROVAL SHEET.....	ii
ACKNOWLEDGMENT.....	iii
DEDICATION.....	v
ABSTRACT.....	vi
TABLE OF CONTENTS.....	viii
LIST OF FIGURE.....	ix

Chapter

1. THE PROBLEM AND ITS BACKGROUND	
Introduction.....	1
Objectives of the Project.....	2
Scope and Limitation of the Project.....	3
Significance of the Project.....	4
Definition of Terms.....	6
2. REVIEW OF RELATED LITERATURE	
Chat Bot.....	9
Quality Assurance Testing.....	10
Query System.....	12
Web Portal.....	13
3. METHODOLOGY	
Research Development Framework.....	16
Locale of the Project.....	19
Subject of the Project.....	20
Procedures of the Project.....	21
4. TECHNICAL BACKGROUND	

System Flowchart.....	22
Dataflow Diagram.....	23
Context DFD.....	23
Exploded DFD.....	24
Database Schema.....	25
Unified Modeling Language (UML) Diagram.....	26
Cost and Benefit Analysis.....	27
Program Output.....	28
Software Requirements.....	41
Hardware Requirements.....	41
Quality Assurance Testing.....	42
User Acceptance Testing.....	62
BIBLIOGRAPHY.....	80
APPENDICES.....	82
A Gantt Chart of Activities.....	83
B Project Team Assignment Form.....	84
C Approved Project Form.....	85
D Letter of Permission to Conduct the Study.....	86
E Letter of Acceptance of the Adviser and Panel.....	87
F User Acceptance Testing.....	88
G Quality Assurance Test Plan.....	89
CURRICULUM VITAE.....	90

LIST OF FIGURES

Figure		Page
1	Project Development Framework.....	17
2	Landing Page	28
3	Message Box on the Landing Page.....	28
4	Student Login Page.....	29
5	Student Sign Up Page.....	29
6	Admin Login Page.....	30
7	Admin Sign Up Page	30
8	Guests Account for Admission Office	31
9	Student Home Page.....	31
10	Offices Home Page	32
11	OSDS Offices Popup Box.....	32
12	Offices Highlights / Announcements.....	33
13	Offices Chat Bot Page.....	33
14	Offices Feedback form message box.....	34
15	Student Settings	34
16	Contact Information Section.....	35
17	Super Admin Home Page.....	35
18	Display offices details on the Home Page	36
19	Admin offices Home Page.....	36
20	Admin offices add member on the Organizational Chart.....	37

21	Admin offices highlights section	37
22	Admin offices highlights add announcements.....	38
23	Admin offices settings.....	38
24	Admin offices FAQs Page	39
25	Admin offices FAQs Page add frequently asked questions	39
26	Feedback Form on Google Forms.....	40
27	Live Chat Student Page.....	41
28	Live Chat Interface in each Offices.....	42
29	Live Chat Admin Page.....	43
30	Live Chat Interface in each Students.....	44
31	Chat Reports.....	45

Chapter 1

THE PROBLEM AND ITS BACKGROUND

Introduction

The rapid evolution of digital technologies is creating not only new opportunities for our society but also challenges for it as well. The pace of transformation has been challenging for many universities' technology-related education and functions that have remained more or less unchanged. Technological progress has a big potential to improve many active systems of universities, but it is also critical that progress is not affordable for every university here in the Philippines.

Another challenge for many university is how will they protect every students personal information or privacy when students used the system of the University. How it will be useful for many students to lessen school works and having answers to students queries and concerns. Aside from that, some of the queries that the students and faculty staffs that they trying to bring up on specific offices take some days or even a week sometimes before getting a response due to large number of people that needs to be accommodated.

The Web-Based Query System for University of Rizal System – Binangonan Campus is an information system that allows the students of URSB to raise a query in different offices such as on the office of the Registrar, Library, Clinic and Office of the Student Development Services. Aside from the pre-existing answers to frequently asked questions of the students, it also has a

feature that will allow users to get a direct conversation on a particular office for their specific inquiries to better assists them wherever they are since this portal is web-based.

This system aims to provide a real time response and faster transaction between the students and the office admins for the concerns and questions they wanted to raise while having a systematic and convenience for the office staffs by managing the user's query.

Objectives of the Project

The main objective of the project is to design and develop a Web-Based Query System for University of Rizal System – Binangonan Campus School Year 2022-2023.

Specifically, it aims to:

1. Determine the quality rate of the proposed Web-Based Query System at 95% passing rate using Quality Assurance Test.
2. Evaluate the acceptance level of the proposed Web-Based Query System in terms of User Acceptance Test.

Scope and Limitation of the Project

The aim of this project is to design and developed the Web-Based Query System for University of Rizal System – Binangonan Campus. This system was developed using PHP, HTML, CSS. There are two super admins that will monitor and manage the system, seven admins that consist of one admin in registrar

office, one admin in library, one admin in health office, and four admins from the office of the student development services (OSDS) that consist of guidance office, admission office, OJT and placement and scholarship and finance assistance for this proposed system. The students that need to upload a copy of their Certificate of Registration upon signing up and will be sent for admin approval before they can access the system for security purposes and to make sure that they are a bonafide students of the university. As per the administrator they need their campus email address to log in with the system. All messages that is sent through their respective office are the only data available on their end, they can also set up an appointment for the users manually based on the available date that they can provide.

This project was conducted place in the Binangonan campus of University of Rizal System. The two super admins that will monitor and manage the system. The admins of campus registrar's office, library, clinic and the offices under office of the student development services which are admission, guidance, OJT and placement and scholarship and finance assistance as well as five (5) chosen randomly students of University of Rizal System Binangonan Campus Academic Year 2022-2023 served as the respondents in the project. The UAT was determined by distributing a questionnaire on the said respondents. By this said strategies the researchers will able to know what will be the possible problem that the system will encounter and come up with the solution

Significance of the Project

This project will help University of Rizal System Binangonan and their students.

This project can help the campus and specially the students to solve their queries through the proposed online portal. It will be much easier and takes less of their time because its online and they don't need to go to the campus if their query can be solved though the system. Our proposed web-based system has a chat bot that can answer different questions depending on the student needs.

This system can assist the school offices to handle the students query or concerns more efficiently and time bound.

Students. This proposed portal will help students about their query in different school offices they ask to our Chatbot's and view other info's or announcements in our proposed portal.

Registrar. This proposed portal will help registrar in answering and managing the students queries in their office and it takes less time for them.

Campus Nurse This developed portal will help clinic admin in managing their patients through online platform and its more efficient because it takes less time and organize to use.

Librarian This will help the librarian to manage the students queries and transactions through online portal.

Admission Coordinator. This will be helpful to the admission officer because it will help the office in giving announcements, answering and clarifying the student's whereabouts or queries.

Guidance Counselor. It will help guidance counselor in counselling students online and it will be more efficient because students don't need to go to office especially if its emergency and for privacy purposes.

OJT and placement officer. This will help the OJT and placement officer to easily reach student that want to do their work immersion in the campus.

Scholarship and Finance Officer. This will help the scholarship and finance officer to reach students that want a financial support to their education.

The Project Team. This Proposed portal will help the Project Team to have a knowledge and improve skills in programming, designing and problem solving and can help for their future works.

The Future Proponents. This Proposed portal will help the Future Proponents to have a references and have a review in this type of system that can help them in their own capstone project.

Definition of Terms

In order to have a common understanding of this project, the following terms are defined either operationally or conceptually:

Chat Bot. a computer program designed to simulate conversation with human users, especially over the internet.

Css. Cascading Style Sheet is a stylesheet language used for describing the presentation of a document written in a markup language such as HTML or XML.

Html. Hypertext Markup Language, a standardized system for tagging text files to achieve font, color, graphic, and hyperlink effects on World Wide Web pages.

Inquiries. An inquiry is any process that has the aim of augmenting knowledge, resolving doubt, or solving a problem.

Javascript. JavaScript is a dynamic programming language that's used for web development, in web applications, for game development, and lots more.

Portal. a website or web page providing access or links to other sites.

Query. ask a question about something, especially in order to express one's doubts about it or to check its validity or accuracy.

Systematic. done or acting according to a fixed plan or system methodical.

Web-Based. web-based means the applications or systems that run on web browser.

Chapter 2

REVIEW OF RELATED LITERATURE AND STUDY

This chapter presents the relevant literature and studies that the project team considered in strengthening the claim and importance of the proposed project.

Chat Bot

Colace, et al, (2018) A chatbot (or chatterbot) is a software that talks with a user (human): it is a virtual assistant able to answer a number of user questions. Providing the correct responses. In the last few years there has been a fast growing up of the use of chatbots in various fields. Such as health care, Marketing, education, supporting systems, major companies have developed several chatbots both for industrial solutions and research: some of the most famous are Apple Siri, Microsoft Cortana, Facebook M, and IBM Watson. These are just some of the most popular systems.

Colace, et al, (2018). As previously said, one chatbot field of application is educational. Recently there has been an increase of chatbots for e-learning platforms to support student learning. Chatbot technology can be considered an important innovation for e-learning: in fact, they have turned out to be the most innovative solution in filling the gap between technology and education. The implication of technology and education. The implication of chatbots creates interactive learning experiences for the student, like the one-on-one interaction with the teacher.

Generally, Chatbots are digital systems that can be interacted with entirely through natural language via text or voice interfaces. They are intended to automate conversations by simulating a human conversation partner and can be integrated into software, such as online platforms, digital assistants, or be interfaced through messaging services.

Many see this technology as heralding a revolution in how we interact with devices, websites and apps. The MIT Technology Review lists conversational interfaces as one of the ten breakthrough technologies of 2016. In January of this year, Uber's Chris Messina wrote an influential blog piece declaring 2016 the year of conversational commerce. In March, Microsoft CEO Satya Nadella announced that chatbots were the next big thing, on a par with the graphical user interface, the web browser and the touch screen. And in April, Facebook's Mark Zuckerberg proclaimed that chatbots were the solution to the problem of app overload.

One of the main features of the Web Based Query System is a Chat Bot, this functionality will not just help students to get a prompt response but also helps the office admins to maximize their time by answering the major inquiries of the students.

Palasundram, Sharef, Nasharuddin, Khairul & Azman, (2019). The potential of chatbots as an online tutor to provide assistance and answers to queries and questions by students is an interesting proposition and has great potential. Questions answering chatbots are intelligent systems that able to converse with humans using natural language while providing answers.

Romao (2021) Nowadays the use of chatbots is popular in large applications especially in systems that provide an intelligence support to users. In fact, to speed up the assistance, in many cases, systems are equipped with chatbots that can interpret the user's questions and provide right answers.

Initially chatbots were developed to be entertaining and to mimic human conversation. This is still a popular reason when developing chatbots, but since the popularity with the technology has gone up, so have the different uses. The chatbot technology has then been used for many things, like for retrieving information, answering questions, helping make fact-based decision, as a shopping assistant, as a museum guide, language partner, or in education, among other things.

Roos (2018) When it comes to chatbots in education, states that it is important to remember that the teacher is the backbone of the teaching process and the learning technology may act as an amplifier but not a replacement. One example is that when a chatbot is used to answer student questions, the teacher can use generated log files of the conversations to see what the students are having issues with and what their weaknesses are.

Quality Assurance Testing

User Acceptance Testing (UAT) involves validating software in a real setting by the intended audience. The aim is not so much to check the defined requirements but to ensure that the software satisfies the customer's needs.

Agile methodologies put stringent demands on UAT, if only for the frequency at which it needs to be conducted due to the iterative development of small product releases. In this setting, traditional in-person meetings might not scale up well. Complementary ways are needed to reduce the costs of developer-customer collaboration during UAT. This work introduces a wiki-based approach where customers and developers asynchronously collaborate: developers set the UAT scaffolding that will later shepherd customers when testing. To facilitate understanding, mind maps are used to represent UAT sessions. To facilitate engagement, a popular mind map editor, Free Mind, is turned into an editor for FitNesse, the wiki engine in which these ideas are borne out. The approach is evaluated through a case study involving three real customers. First evaluations are promising. Though at different levels of completeness, the three customers were able to complete a UAT. Customers valued asynchronicity, mind map structuredness, and the transparent generation of documentation out of the UAT session.

While Acceptance Testing are usually created by a client after a part of a system is implemented. However, some methodologies propose the elaboration of test cases before implementing a system. This approach increases the probability of system implementation that fulfills requirements, but may be problematic for customers and testers. To allow acceptance testing in such conditions, we propose to define test cases by recording them on an interactive mock up (a low detailed user-interface prototype). The paper focuses on Test Description Language, a notation used to store test cases.

Query System

The most difficult challenge that college students face is getting permissions and leaves granted. For all sorts of approval, many colleges still employ manual and archaic methods. Maintaining attendance and reports for students is also a difficult process and a lot of manpower is required. To make it easier and simpler, an app is created and published among universities to make all the processes digital and online.

In recent years, number of web-based distance learning system has rapidly increased as a result of improvements in the internet. According to the data of different characteristics of the data query optimization will be divided into different categories of data. Through the traditional and optimize two aspects of the distance learning system, using database query way to do an analysis.

The new environment in the rapid digital technology, new roles (various students and teachers), attitudes of the digital generation, and the challenges caused by the constant change in the formal education system are trying to be followed, by some study community forums (Innovative Teachers Forum, Digital educators). However, due to the fast and erratic development of multidimensional background influenced by variables the perfect education / learning methodology solutions recipes are clearly not available, although a number of researchers have already showed up results in this area.

With the development of the information system, the database plays an important role in distance learning. The integration of different educational information into a complete database, to provide information for different

educational types. Distance learning is a new educational mode; the database also plays a great role in the distance learning mode. The research of data query in database will improve the technology of distance learning. So, the database query method has become a hot research problem in the information management. Pure classroom education can only artificially announce data and query data which is more complex.

Variables such as teacher participation, queries, notes and notices are identified as factors that influence online query system and are factors that require further research before their influence on query system can be fully understood.

Therefore, online query system has shown that while universities are not significantly utilizing captured learning management system data to make informed decision, it has the potential to become an additional resource that can be used to inform and improve student management.

As stated on the studies mentioned above, query system is the system that can help universities to enhance the automation and modernization of student's experiences when it comes on campus' services. That's why the project team choose the query system as their primary structure.

Web Portal

The term portal derives from the Latin word 'portale' which means door, gate. The web portal originated from web search engines and evolved through web push technology.

Aydiner et al., (2019) A robust IT infrastructure leads to improved performance for organizations through standardization and automation of tasks and by the transfer of tacit knowledge into explicit knowledge.

Fadelelmoula (2020) Despite the benefits of implementing web portals, the process of implementing this tool is complex and the risk of failure is high. The critical factors that can lead to the failure of its implementation are technological, organizational and environmental.

FO Oliha (2014) Overall, Social network portal application with less or no user support attracts users from different walks of life to use such portals because of certain features and functionalities that may be needed in educational web portals to increase its usefulness and improve user's learning experiences with less or no user support attracts users from different walks of life to use such portals because of certain features and functionalities that may be needed in educational web portals to increase its usefulness and improve user's learning experiences.

As stated in Republic Act No. 10844, otherwise known as the "Department of Information and Communication Technology Act of 2015", this was signed into law on 23 May 2016.

In accordance to the law, the Department of Information and Communications Technology (DICT) shall be the primary policy, planning, coordinating, implementing and administrative entity of the Executive Branch of the government that will plan, develop and promote the national ICT development agenda.

RA 10844 states that information and communication have vital roles in nation-building and that it is the state's policy to ensure universal access to

quality, affordable, reliable and secure ICT services. It should also ensure the provision of a strategic, reliable, cost-efficient and citizen-centric information and communication technology infrastructure, systems and resources as instruments of good governance and global competitiveness. An act creating the department of information and communications technology, defining its powers and functions appropriating funds therefore, and for other purposes.

Mane & Pange, (2015) Portals gather a variety of useful information resources at one place called a “one-stop” webpage where users can customize their information sources by selecting and viewing information they find personally useful. The term ‘portal’ describes a variety of web-based interfaces called a dynamic one-stop homepage where users can customize the content to meet their needs. The web portal is a site that functions as a point of access to information on the web.

Navimipour and Zareie, (2015); Bringula, (2013); Escobar-Rodriguez and Monge-Lozano, (2012) As more and more academic institutions have opted to use online technology for their course delivery and pedagogical activities, there has been an increasing interest in understanding the factors related to the acceptance and adoption of online information systems by higher education staff in order to devise strategies and to enhance and improve the teaching and research quality. Further, research on e-learning systems in addition to the linkage between information systems and staff performance have attracted unprecedented interest in order to better apprehend how effective and usable e-learning systems are in terms of principles related to human computer interaction.

Pinho et al., (2022) Standing out as a contribution to practice is the importance of all university departments or services constructing ISs jointly. In this way, ISs that serve universities' individual and collective needs can be achieved.

Therefore, this proposed system will be developing a web portal mainly for URSB generally aiming to innovate the interaction between the students and office staff.

Pinho et al., (2018) Web portals have become vital for Higher Education Institutions (HEI), since they serve as an interface and communication channel between all academic staff. The importance for these institutions of implementing a web portal appropriate to their needs, and the web portal's importance to help in decision-making.

Pinho et al., (2018) In spite of the wide adoption of private portals in such institutions, there are only few studies that have evaluated the effects of this technology in the higher education context 3 as compared to the other sectors.

Consequently, users find it difficult to locate the necessary information at the right time, and so there is a growing need for systems that filter and personalize scientific information according to user's interest.

Chapter 3

METHODOLOGY

Research Development Framework

The project team employed System Development Life Cycle Agile Model for this project.

The Software Development Life Cycle (SDLC) is a process used by the software industry to design, develop and test high quality software that meets or exceeds expectations, reaches completions within times and cost estimates.

Agile Software Development is a group of software development methodologies based on iterative and incremental development, where requirements and solutions evolve through collaboration between self-organizing, cross-functional teams.

The agile software development model consists of 5 stages which are the Requirements definition and Analysis of Concept, Planning of Sprints, Collaborative Design Development, Create and Implementation and Review and Monitor.

Agile processes defer decisions, shorten development cycles, and support just in time analysis of requests. This allow agile to be quick, low cost and provides competitive advantages and is one of the keys to agile ways of working. Agile methodology also gives benefits like superior quality product, customer satisfaction, better control, improved project predictability, reduced risks, increased flexibility, continuous improvement, improved team morale and more relevant metrics.

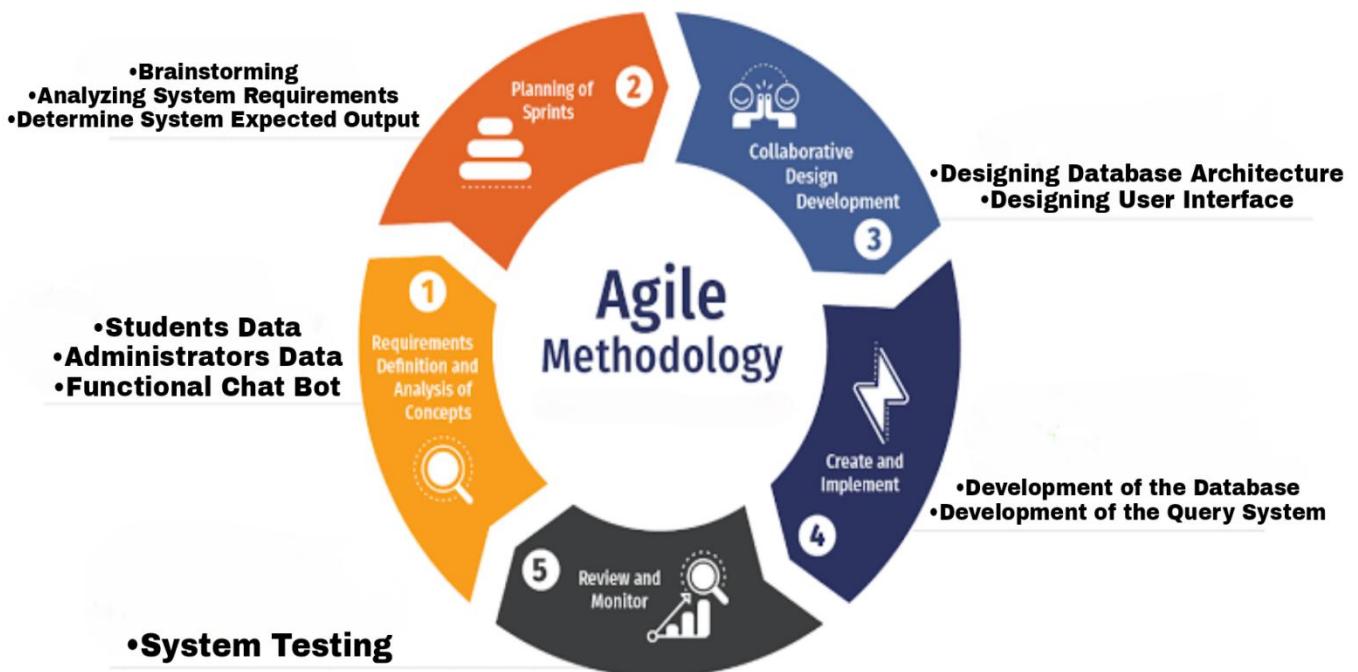


Figure 1
Research Framework for the Development of Web-Based Query for University of Rizal System-Binangonan Campus

In the first phase which is Requirements Definition and Analysis of Concepts, the project team will determine the system main core or objective like Students data, Admins Data and functional Chat Bot.

The second stage which is Planning, The project team started to have a brainstorming of ideas, analyze what will be the software and system requirements, determine the current state and our system expected output.

In the Collaborative Design Development, the project team designed the database system, architecture and the user interface based on the data, needs or requirements that were gathered.

The next stage is to Create and Implement, the project team did the actual coding for the development of the database and the system. Feedback on testing and appropriate changes are imperative.

Review and Monitor stage in this phase the project team conducted a system testing to eliminate the bugs and errors and to assure the quality of the system before it deploys. Ensuring that all necessary features are working based on its purpose.

This research development framework is suited for the current project since it explores and describes the whole system development process that will be undertaken by the proponent starting from data gathering up to the implementation of the system.

Locale of the Project

The project was conducted at Binangonan Rizal a first class municipality, Binangonan lies between the foothills of Sierra Madre and the shores of Laguna de Bay. It is composed of 23 mainland and 17 island barangays.

This town was separated and became an independent parish in 1621 through the initiatives of the Franciscan missionaries. According to the 2020 census, it has a population of 313,631 people. Some of the popular attractions and landmarks are the Angono-Binangonan Petroglyphs, Mount Tagapo which located in the island of Talim, Sta. Ursula Parish Church etc.

University of Rizal System Binangonan campus started out as an extension campus of Rizal State College (RSC).

The building where it is now situated was initially constructed to house the Vicente Madrigal National High School and was inaugurated on August 26, 1998. But through the efforts of Dr. Heracleo Lagrada, president of RSC, and with the aid of Dr. Edith Doblada, DECS Superintendent, RSC requested the Hon. Cong. Gilberto M. Duavit and Hon. Gov. Casimiro Ynares Jr. to allow RSC to occupy the newly constructed building.

The first floor of the building was then occupied by the Rizal Science High School while the second and third floor housed the RSC Binangonan Campus. Under the supervision of the College Director, Dr Reenecilla Paz De leon, and Deputy Director Mr.Norven Doblada, RSC Binangonan Campus maintained three institutes: The Institute of Cooperative, Economics, and Management (ICEM), Institute of Fisheries and Sciences (IFAS) and the Graduate School. The campus

initially catered to 1,116 students and 38 faculty members and started the operation on June 04, 1998.

At present the University of Rizal System is providing quality education for all the student without any tuition fee otherwise known as Republic Act 10931 or the "Universal Access to Quality Tertiary Education Act" exempts eligible college students enrolled in a bachelor's degree, certificate degree or any comparable undergraduate degree from paying tuition and other school fees.

Subject of the Project

There was a total of fourteen (14) respondents of the project which comprises of two (2) super admins to monitor and manage the system, seven (7) admins in all of the offices that consist of Registrar office, Library, Health office, Admission Office, Guidance Office, OJT and Placement and lastly Scholarship and Finance Assistance with five (5) randomly pick students respondents from University of Rizal System Binangonan Campus.

The respondents were chosen since they will be the system's end users. The proponents believes that they can assess the acceptance of the proposed system since they are the one who is knowledgeable in the entire process of the campus.

Procedure of the Project

To ensure a seamless project, proponents make sure that our team followed a step-by-step process.

The project team began with speaking with our capstone project instructor, after which each of us conducted a brainstorming session to identify potential themes and system names for our capstone project.

In order to determine the issues and requirements of our target organizations in our project titles, we then undertake a number of interviews and surveys.

The recommended capstone titles were developed by the project team based on the findings of the survey and interview. The panels examined these capstone title proposals during the Title Defense. Following that, the panel selected Web Based Query System for URSB as the most appropriate and useful term among options offered by the project team.

The capstone project's chapter 1 and chapter 2 were started once the project team had finished gathering data and determining system needs. The project team then sought advice from their project adviser to review the manuscript for flaws. The third chapter was subsequently developed by the project team, followed by minor manuscript adjustments. Each member and their project adviser then reviewed and approved it.

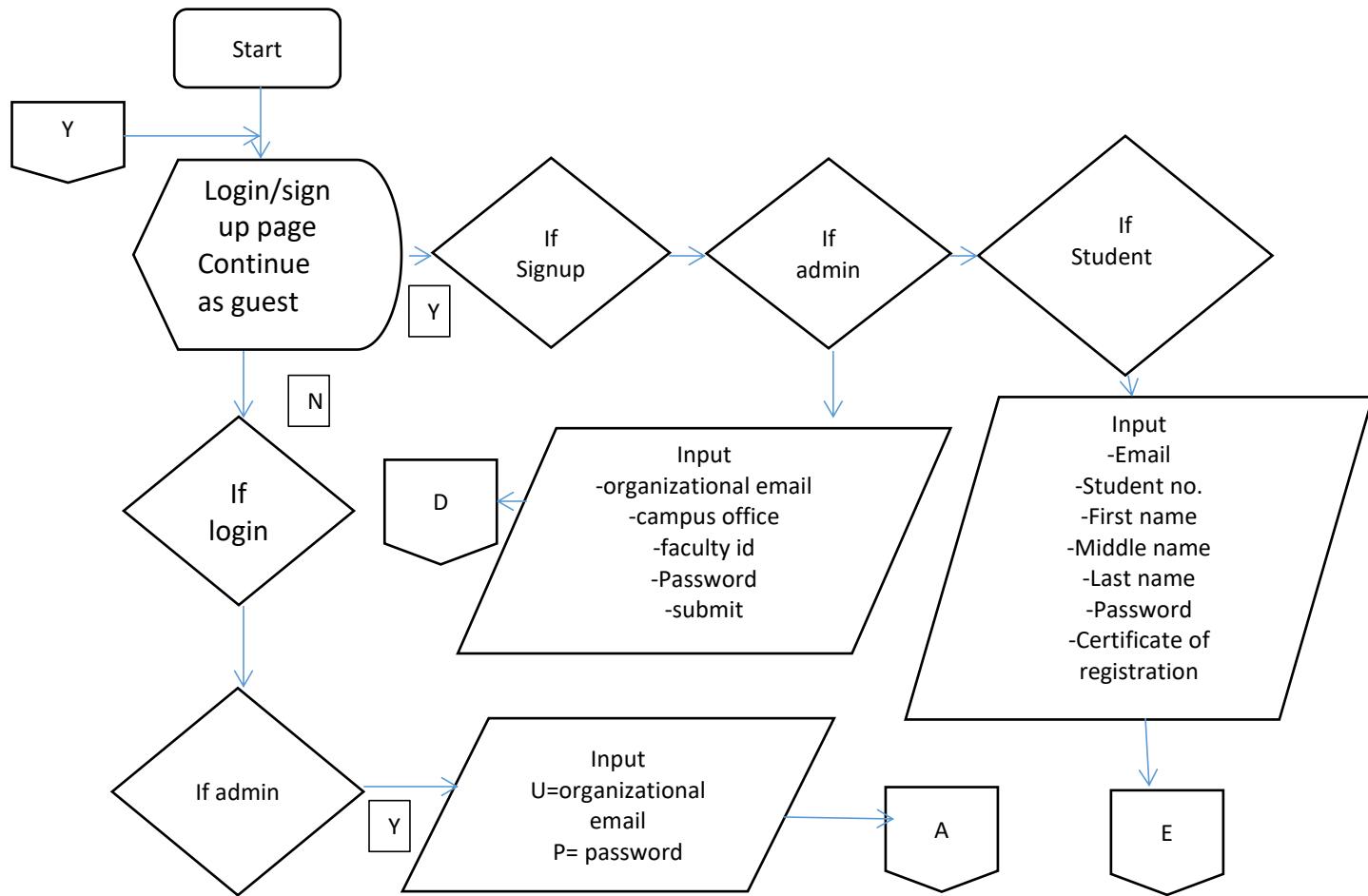
After finishing the Pre-Oral Defense, the project team started the revision of manuscript adjustments . Next is the development of the system and once the system was developed, the team undergo system testing and then started writing the Chapter 4 and 5. After that is the final defense followed by revisions of the system and manuscript. Once done on revision, the manuscript and system were submitted.

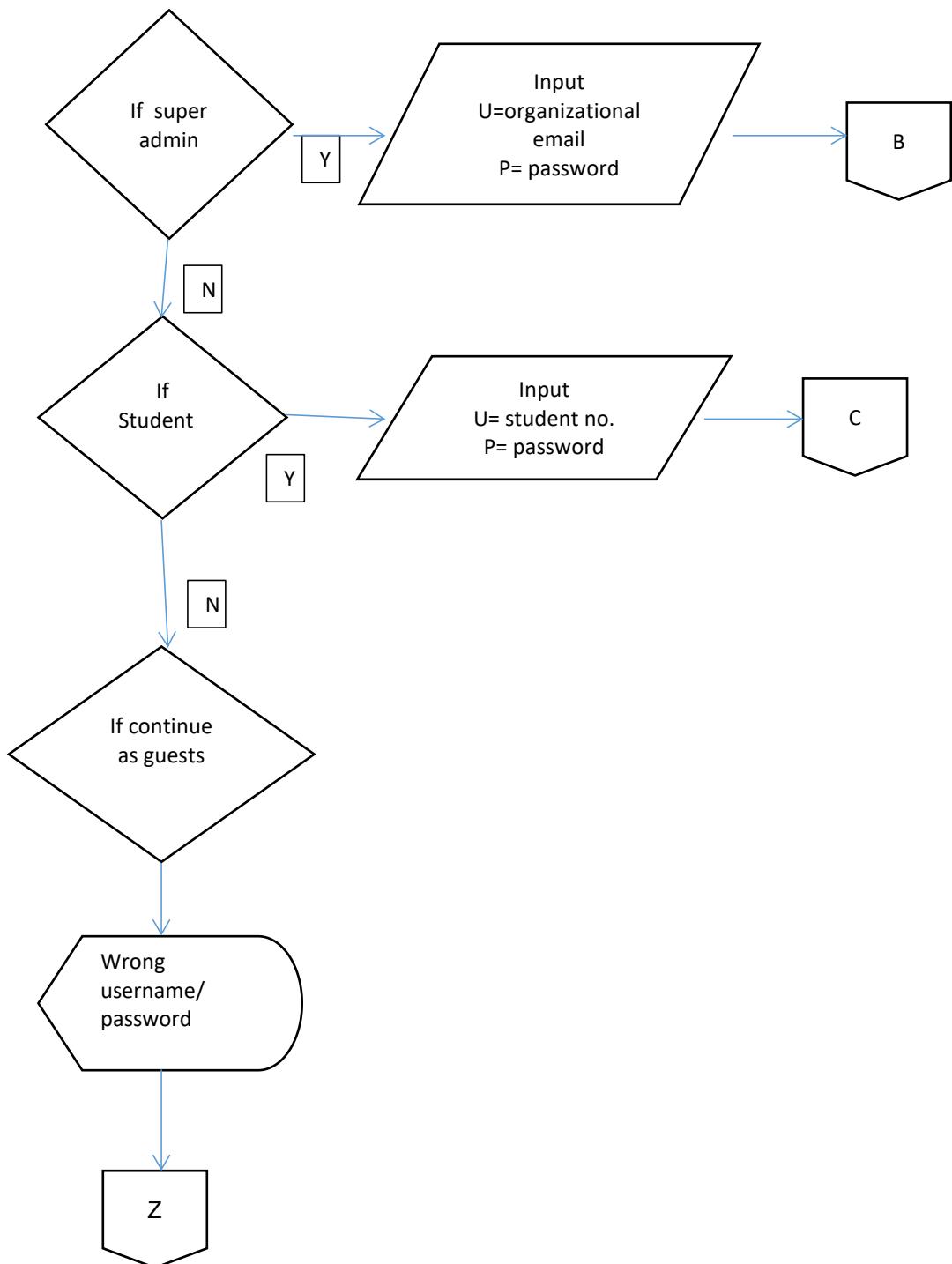
Chapter 4

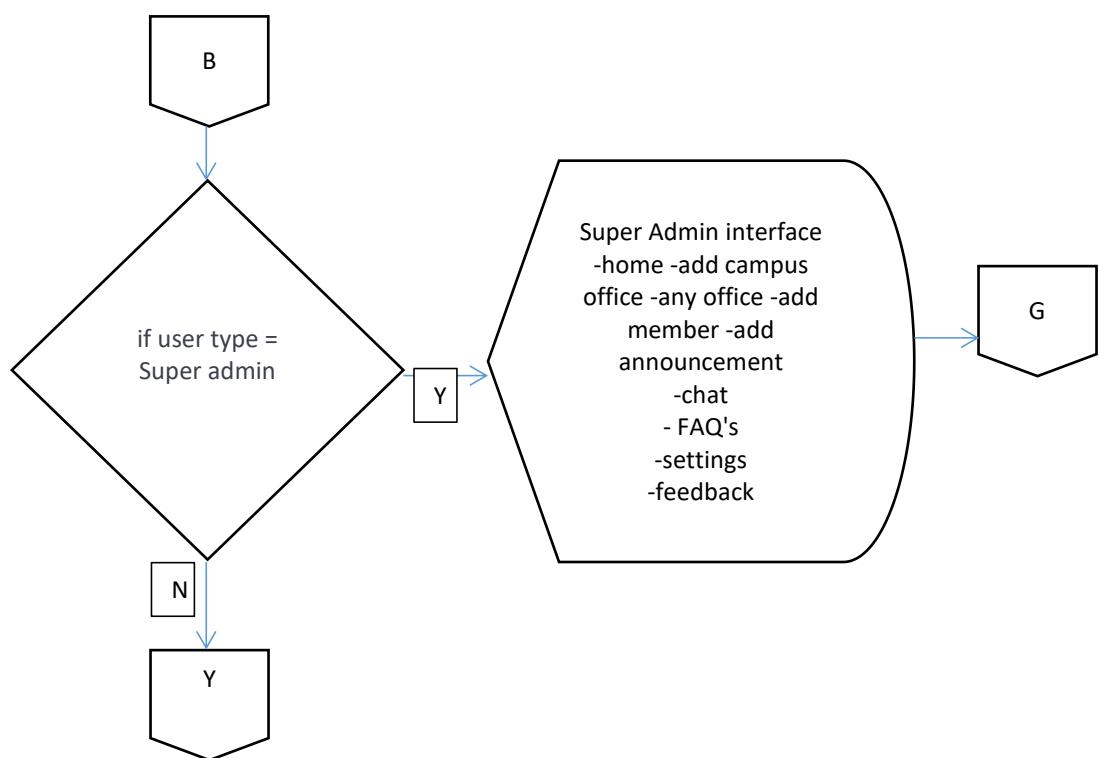
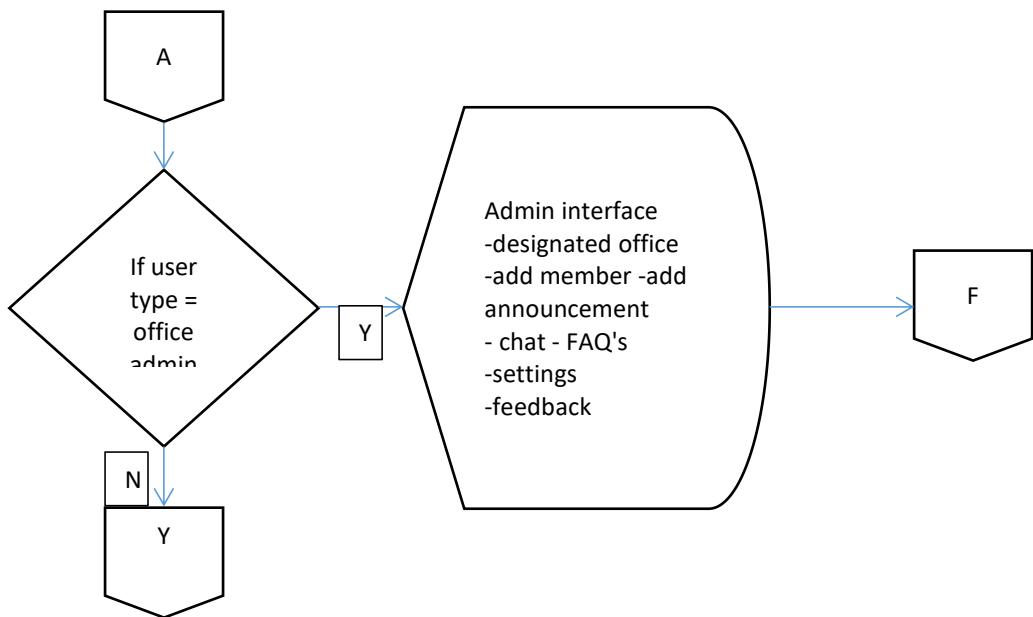
TECHNICAL BACKGROUND

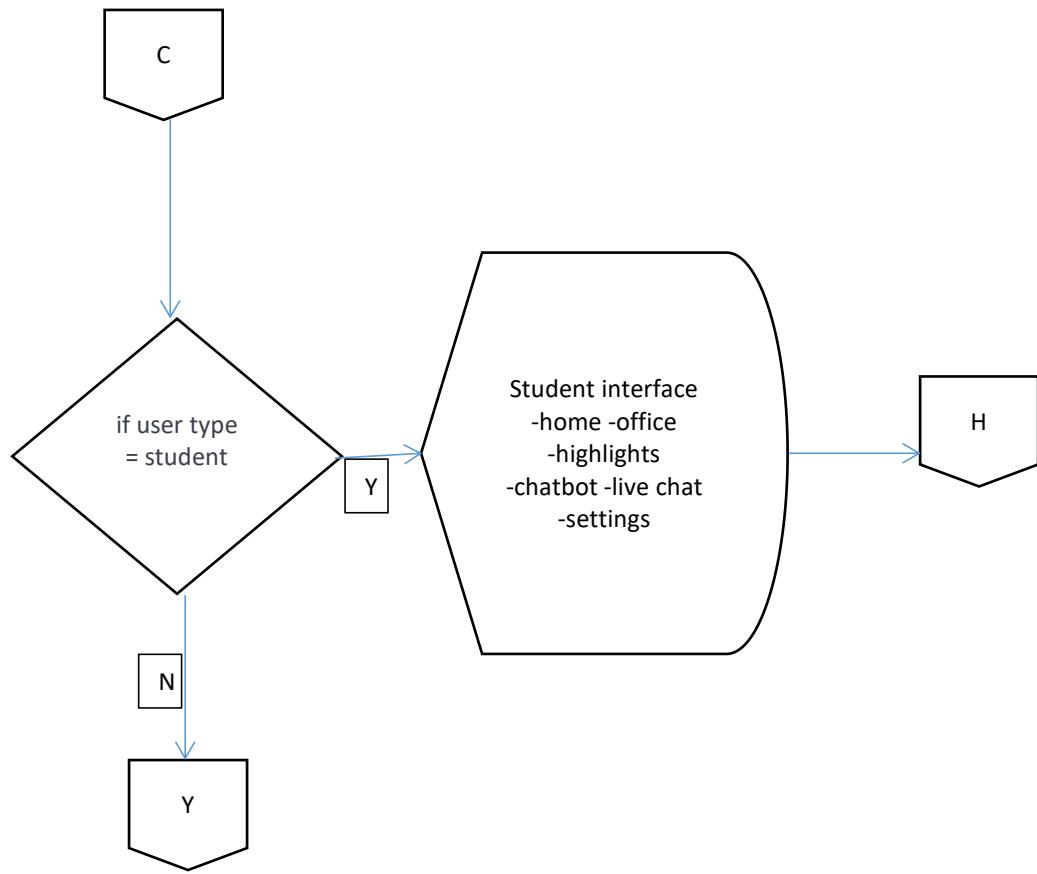
System Flowchart

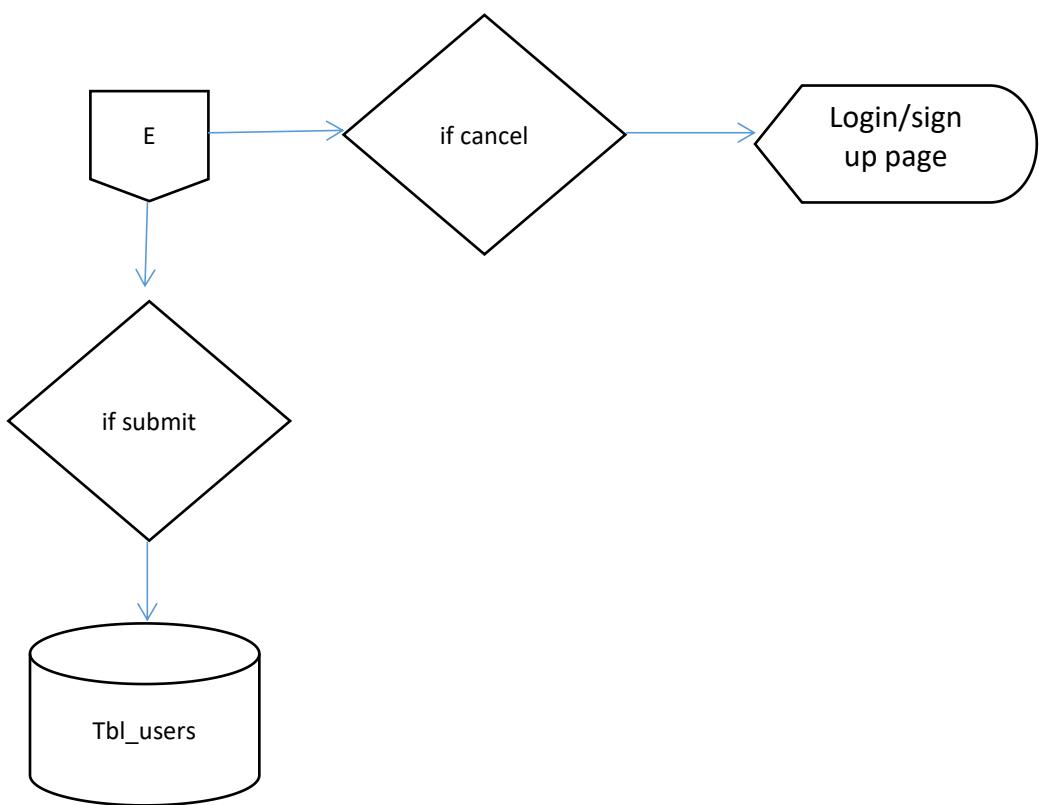
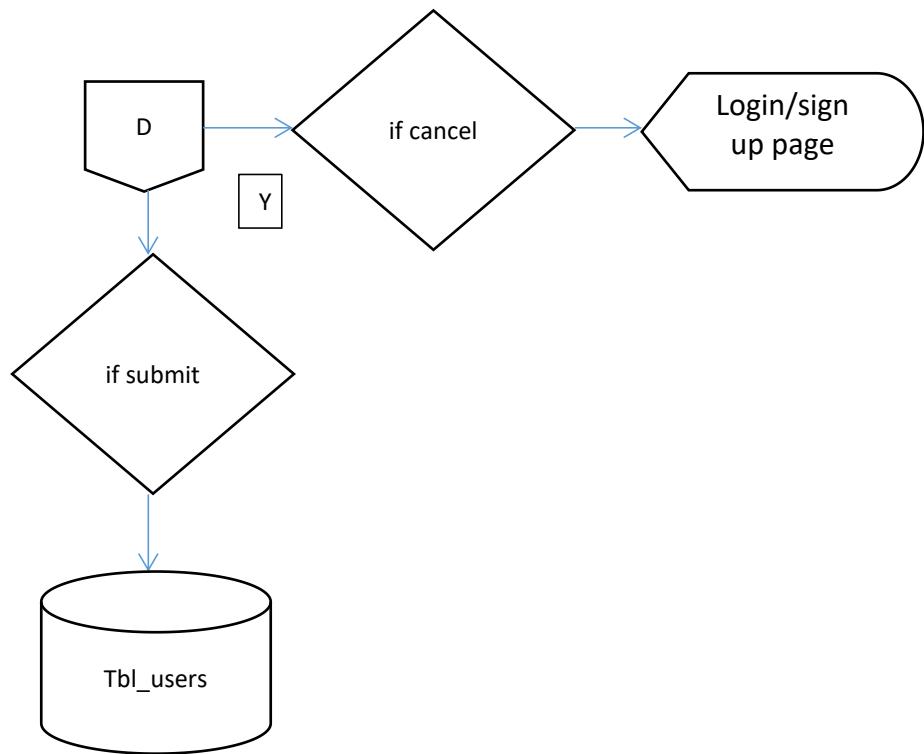
This system flowchart describes how the entire system operates. It helps to recognize the flow of operations in the system. It reflects the relationships between inputs, outputs, and processes of the web-based query system for the University of Rizal System Binangonan Campus.

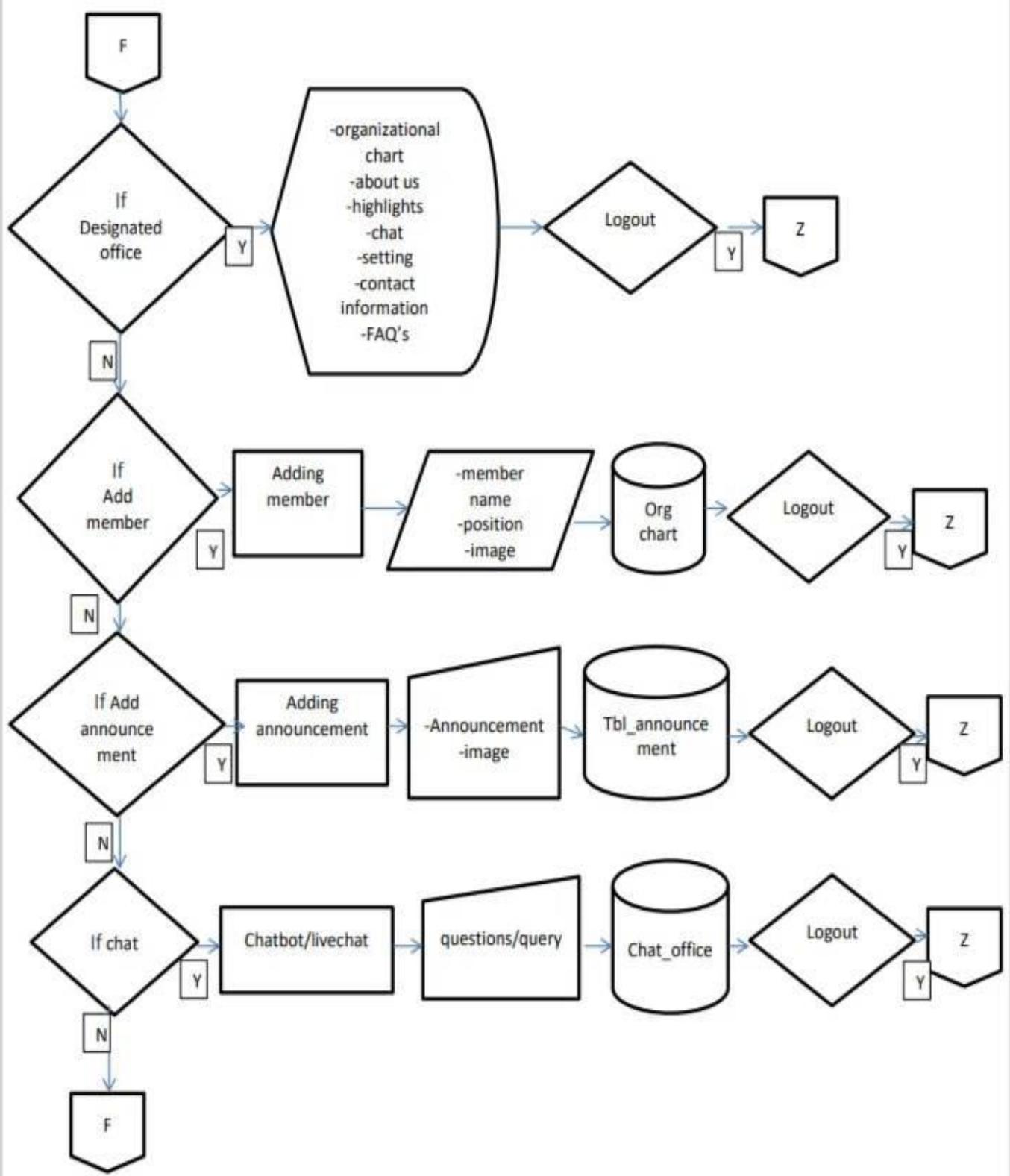


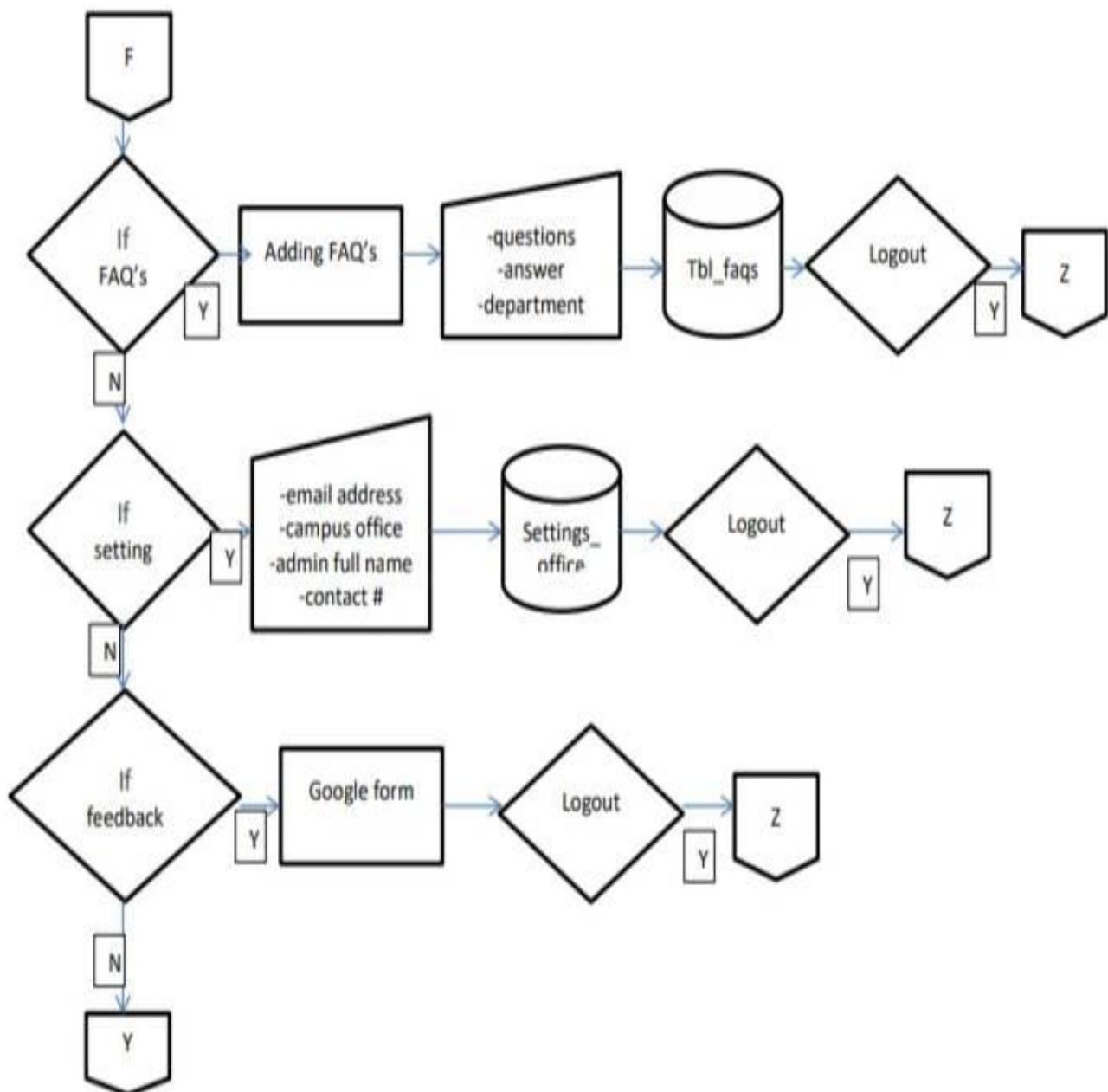


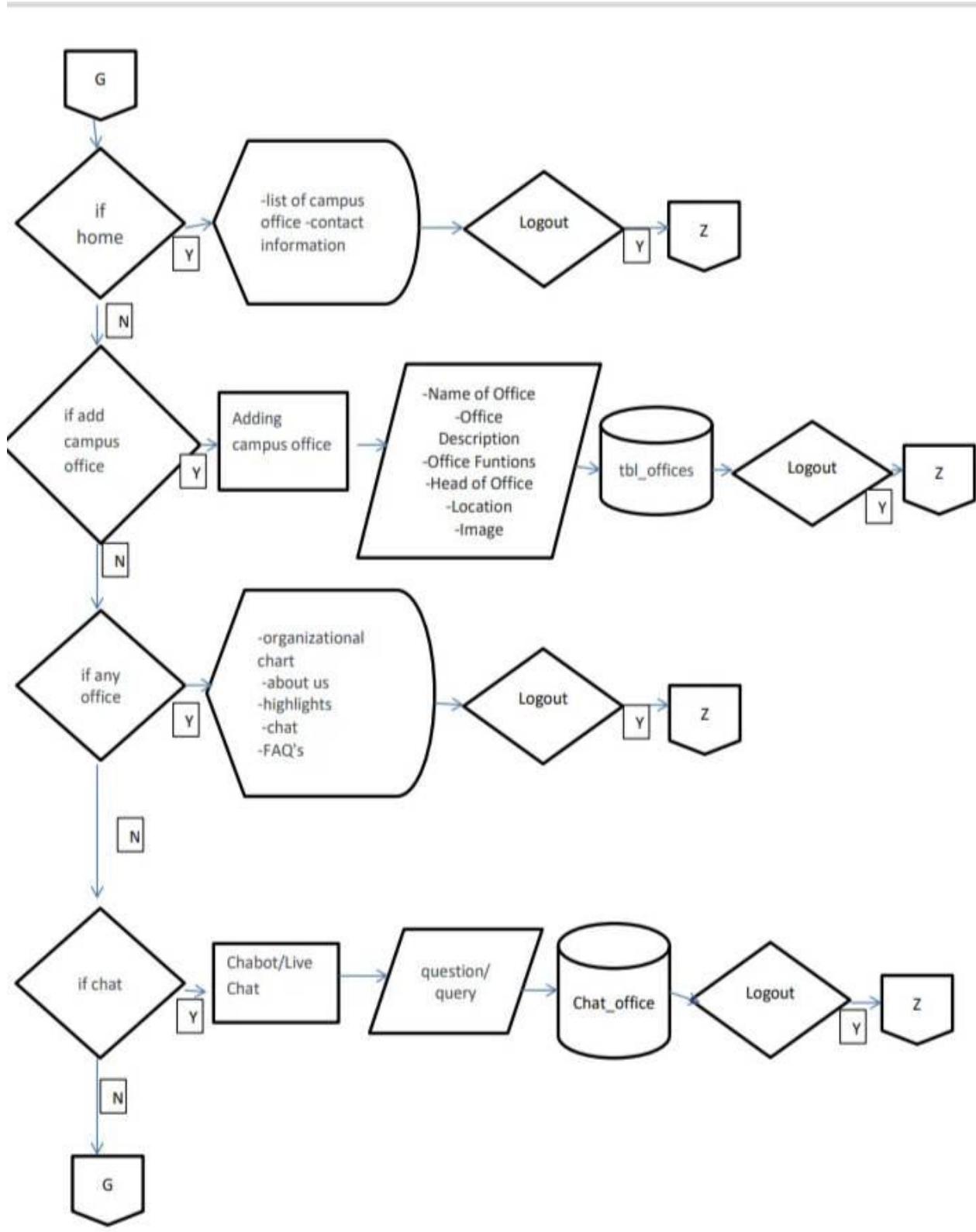


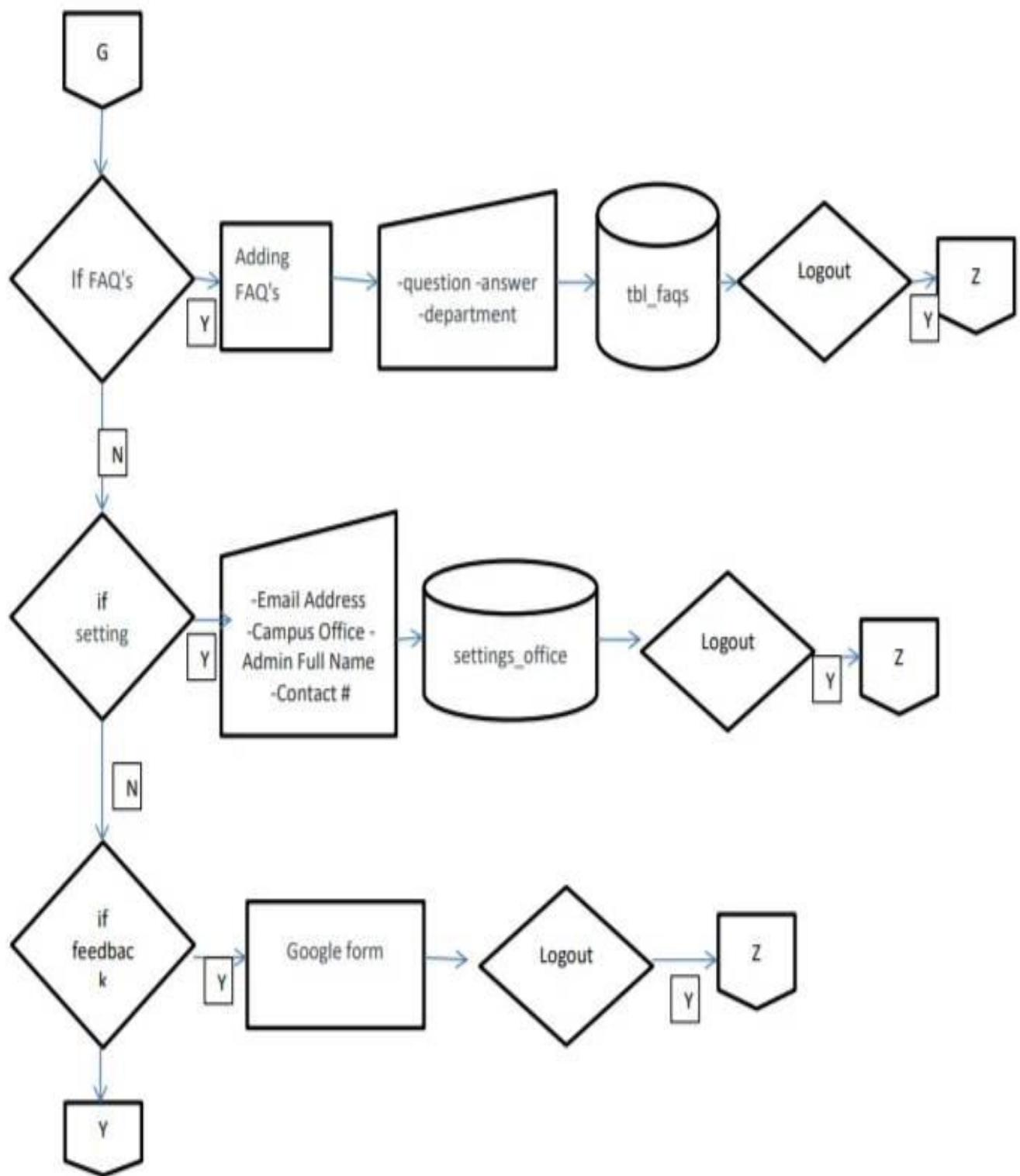


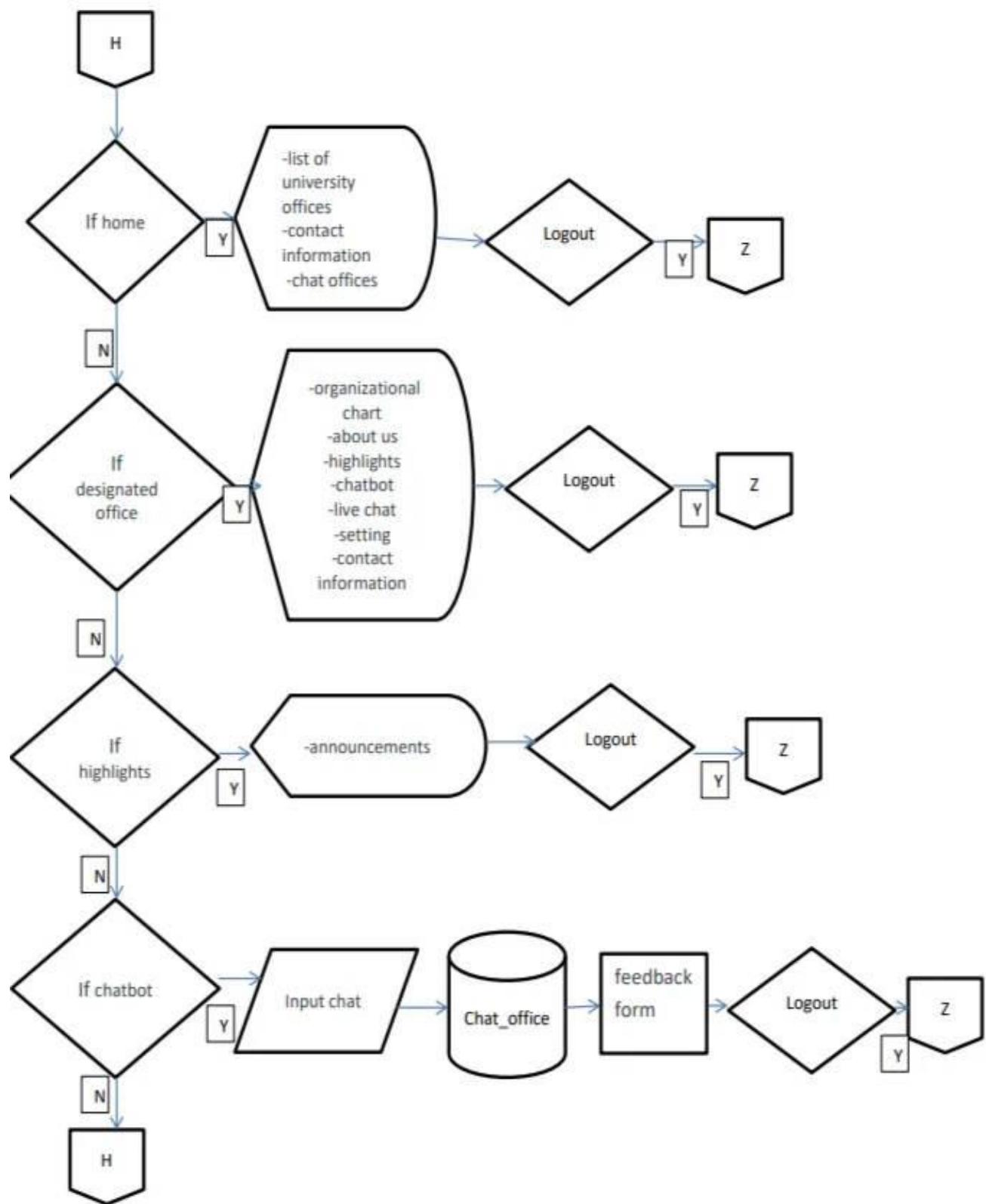


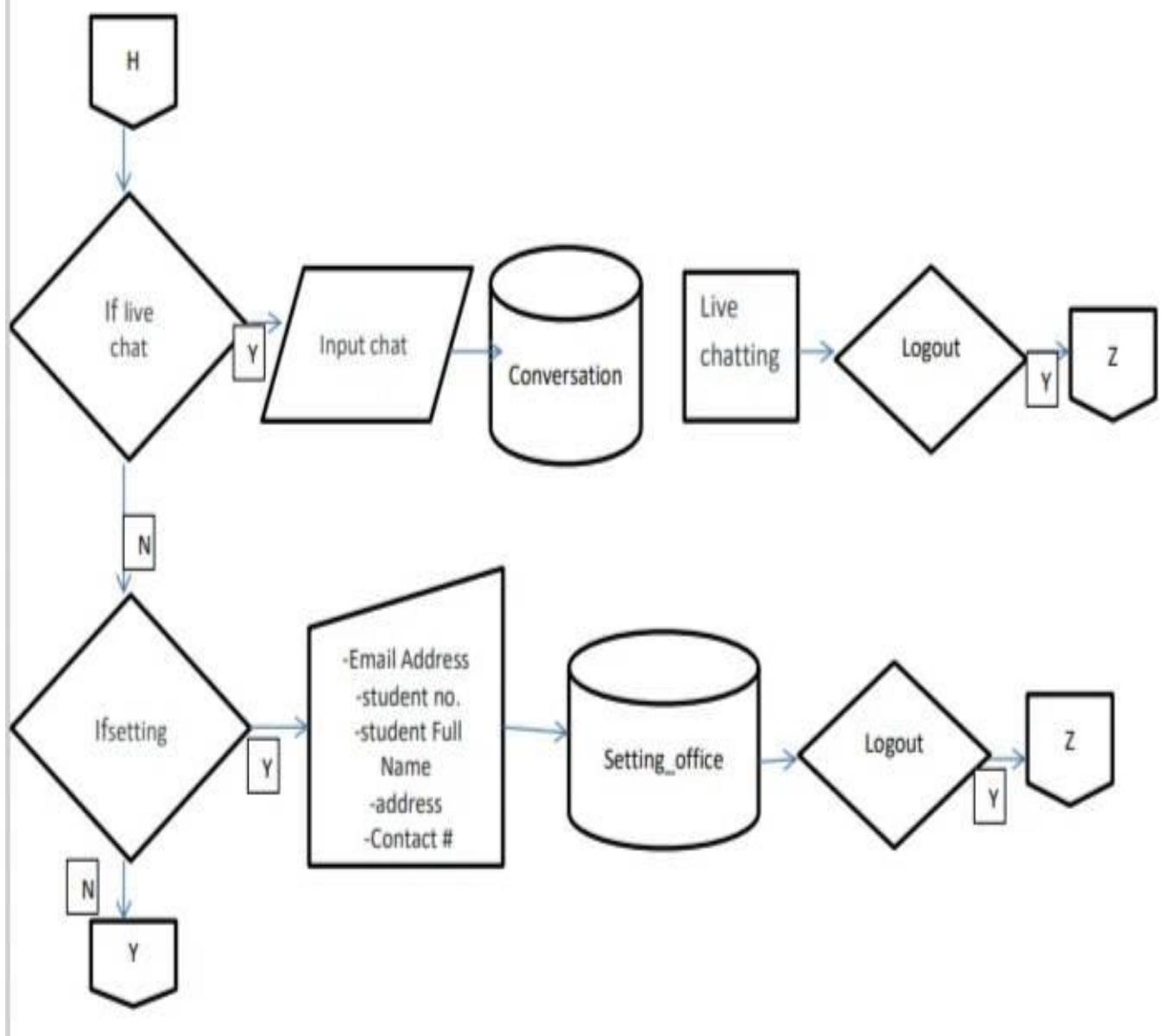








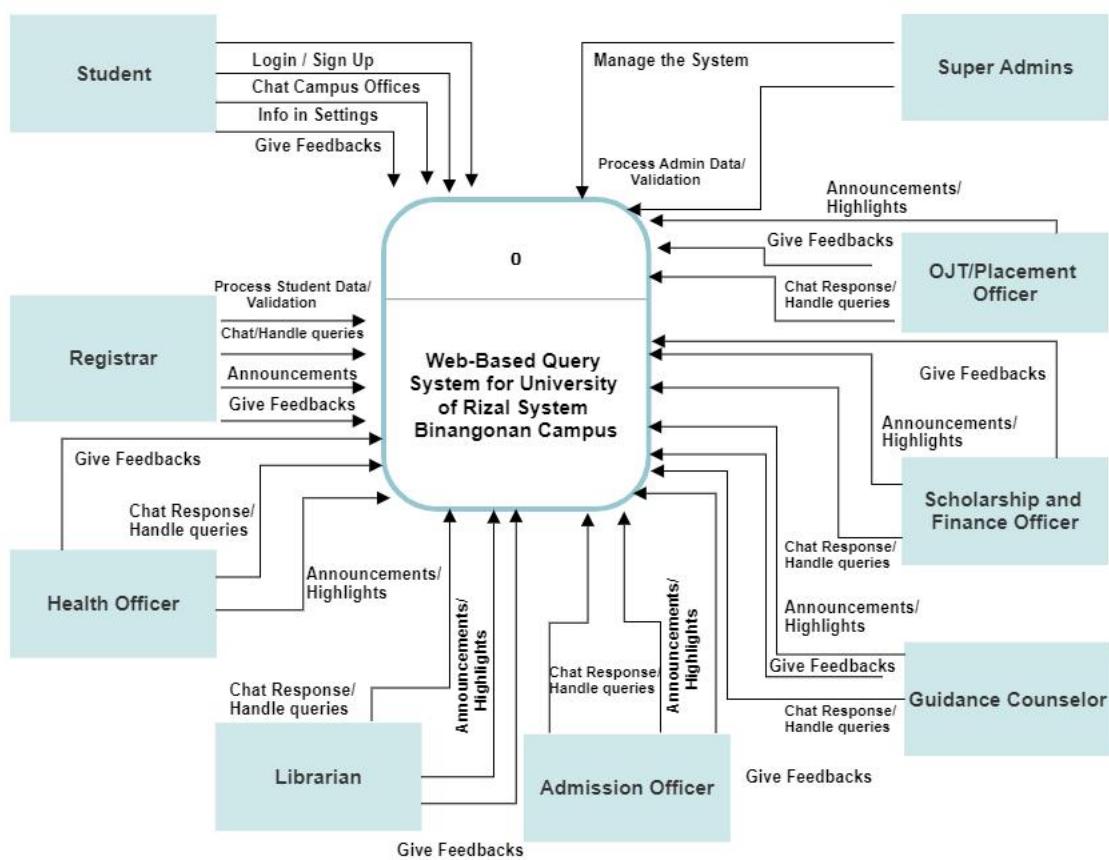




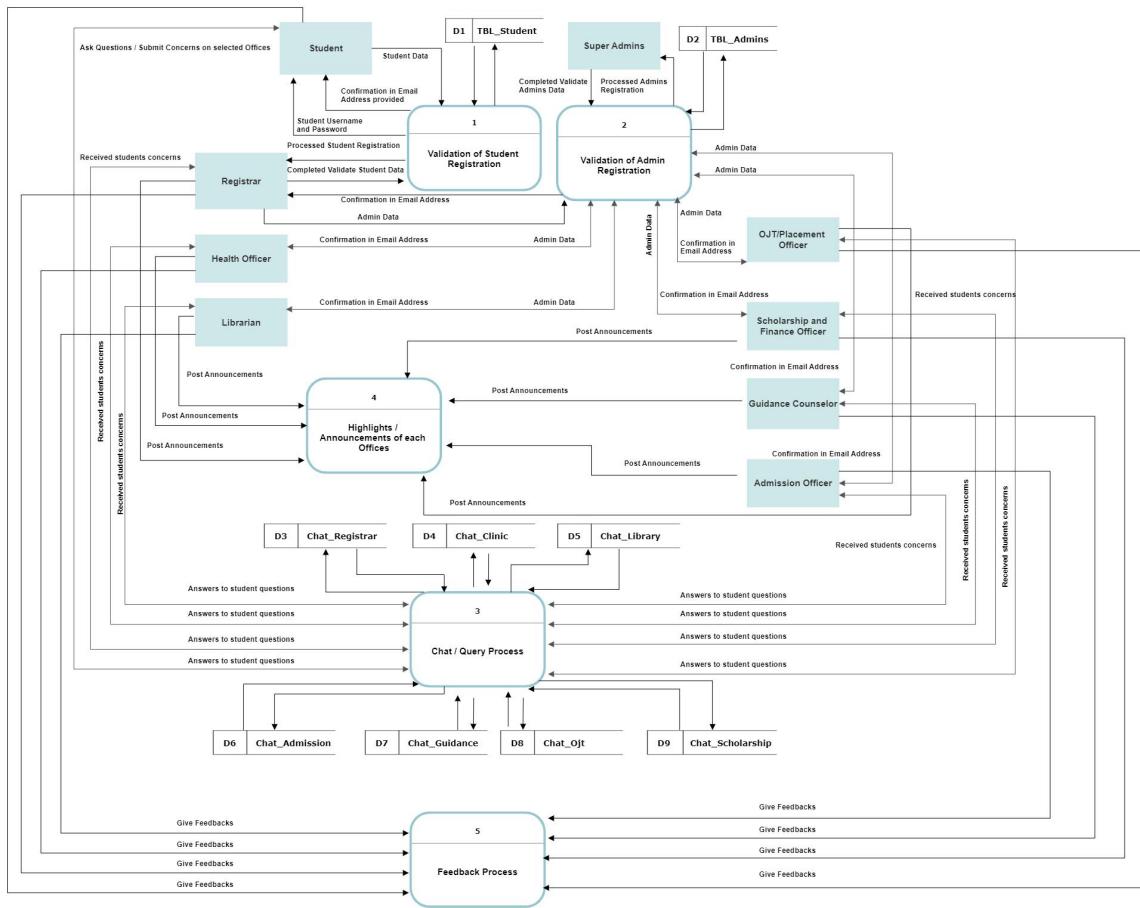
Dataflow Diagram

This dataflow diagram represents how the data in the web-based query system for the University of Rizal System Binangonan Campus is processed and accessed by the students, offices admins and super admins.

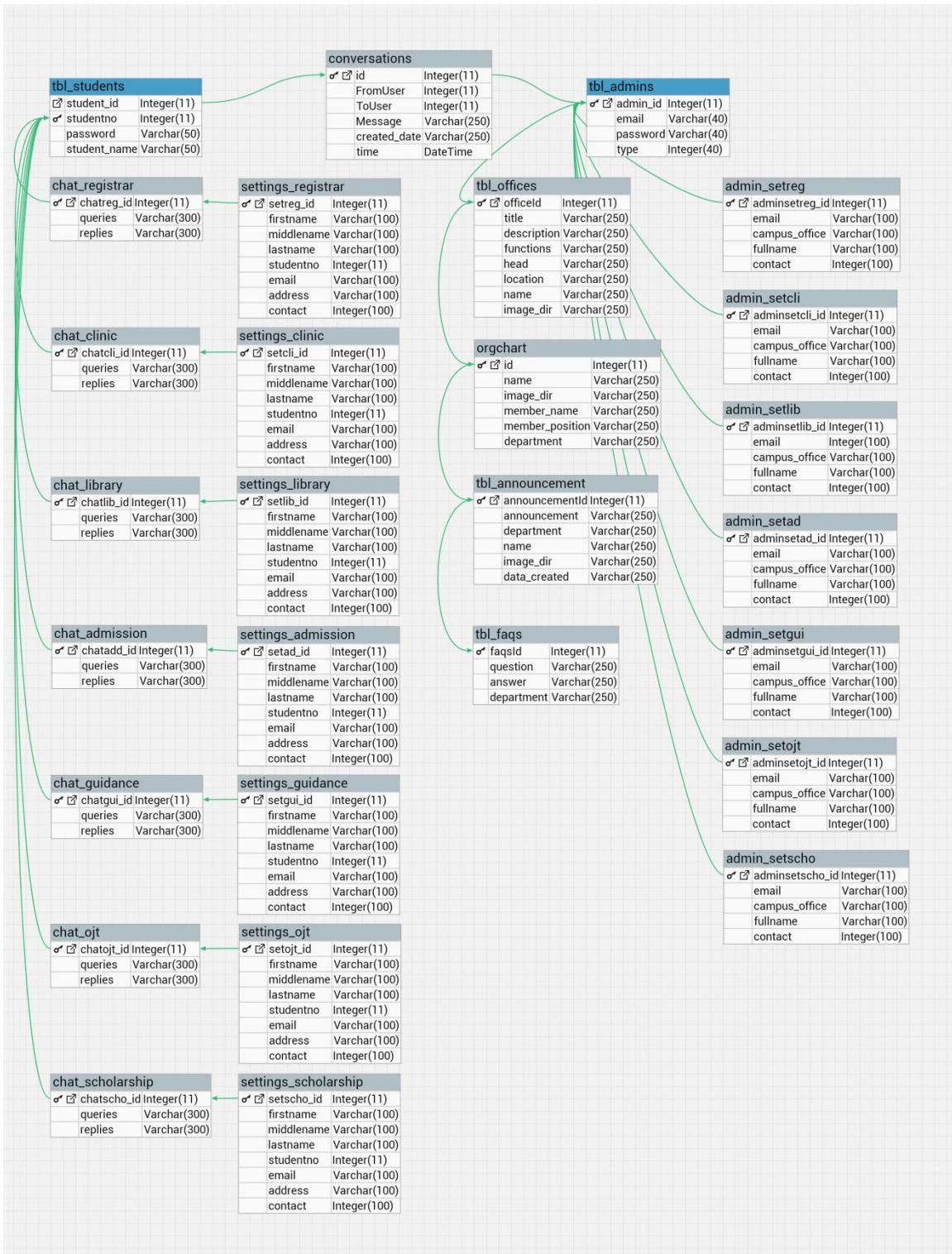
Context DFD



Exploded DFD

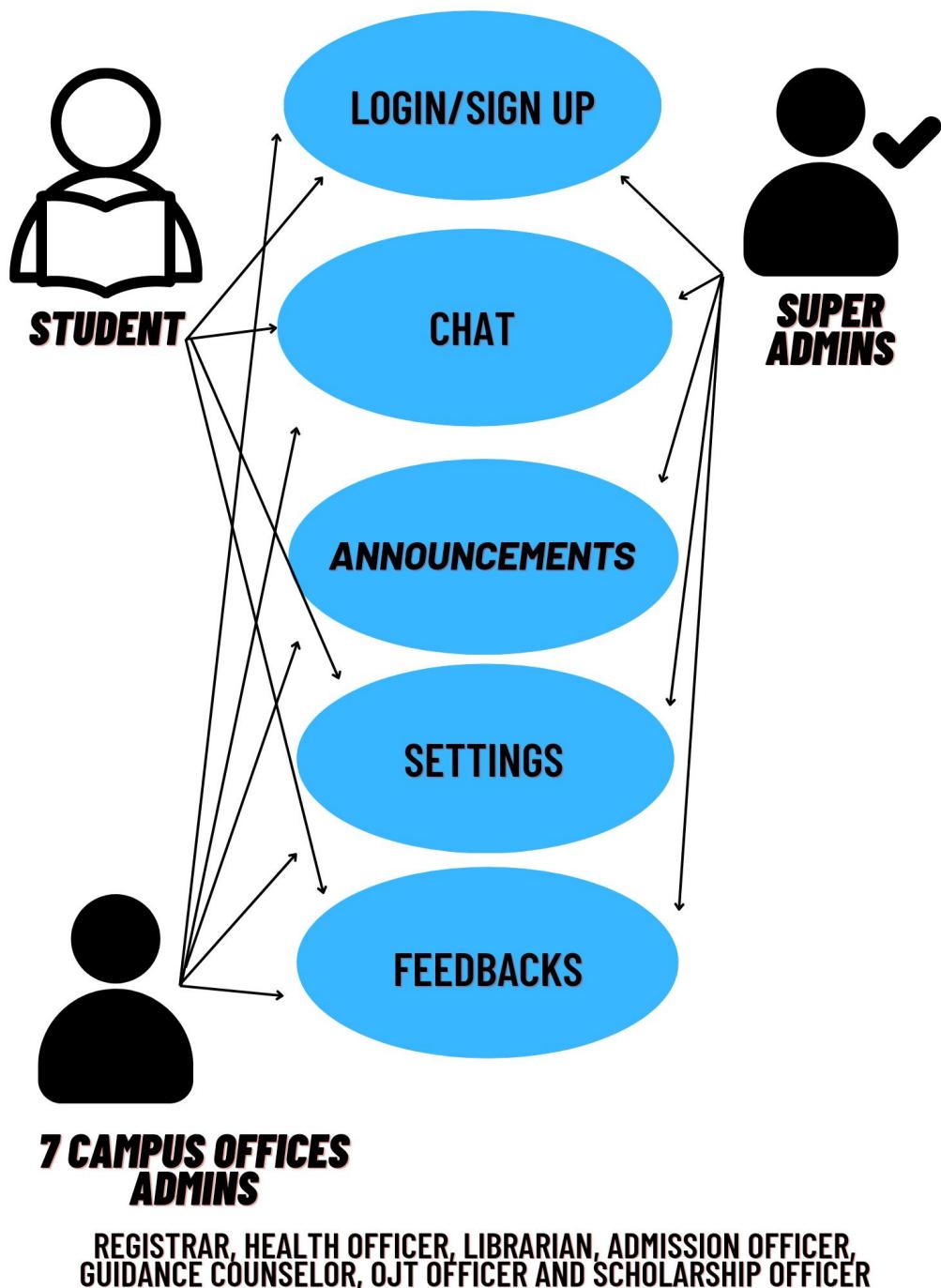


Database Schema



Unified Modelling Language

WEB-BASED QUERY SYSTEM FOR UNIVERSITY OF RIZAL SYSTEM BINANGONAN CAMPUS



Cost and Benefit Analysis

Cost Analysis:

Item	Quantity	Estimated cost	Total Cost
Computer Equipment:			
Desktop Computers with supporting software	9	10,000.00	90,000.00
Server	1	300,000.00	300,000.00
Website Host	1	2,000.00	2,000.00
Wifi Modem	2	2,000.00	4,000.00
Installation and Networking:			
Networking Materials	-	10,000.00	10,000.00
Labor	-	10,000.00	10,000.00
Training Cost:			
Office Admins for URSB	9 Person	5,000.00	45,000.00
Other Cost:			
Electricity	12 months	8,000.00	96,000.00
Wifi Connection	12 months	4,500.00	54,000.00
Miscellaneous fees	-	5,000.00	5,000.00
TOTAL COST:			616,000.00

Benefits Analysis:

Item	Estimate Benefit per Year
Improved faculty and students communication	250,000.00
Improved transactions within campus offices	200,000.00
Provide admin an organize query system	350,000.00
Less human resource	50,000.00
TOTAL BENEFITS:	850,000.00

Return of Investment:

$$\text{ROI} = ((\text{Benefits} - \text{Cost}) / \text{Cost}) * 100$$

$$\text{ROI} = ((850,000.00 - 616,000.00) / 616,000.00) * 100$$

$$\text{ROI} = (.38)*100$$

$$\text{ROI} = 38\% \text{ per year}$$

Program Output

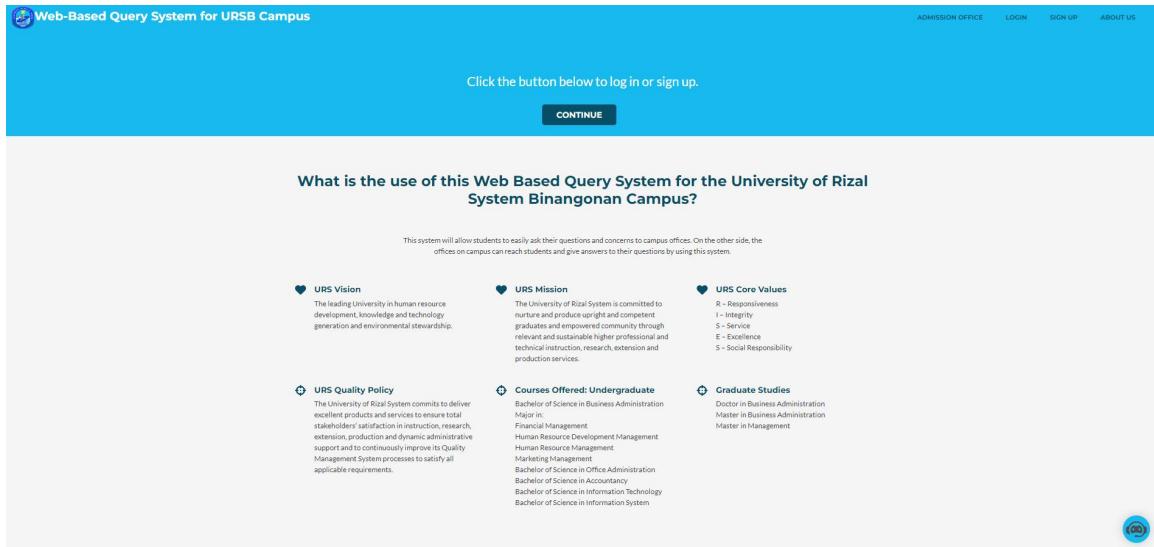


Figure 2
Landing Page

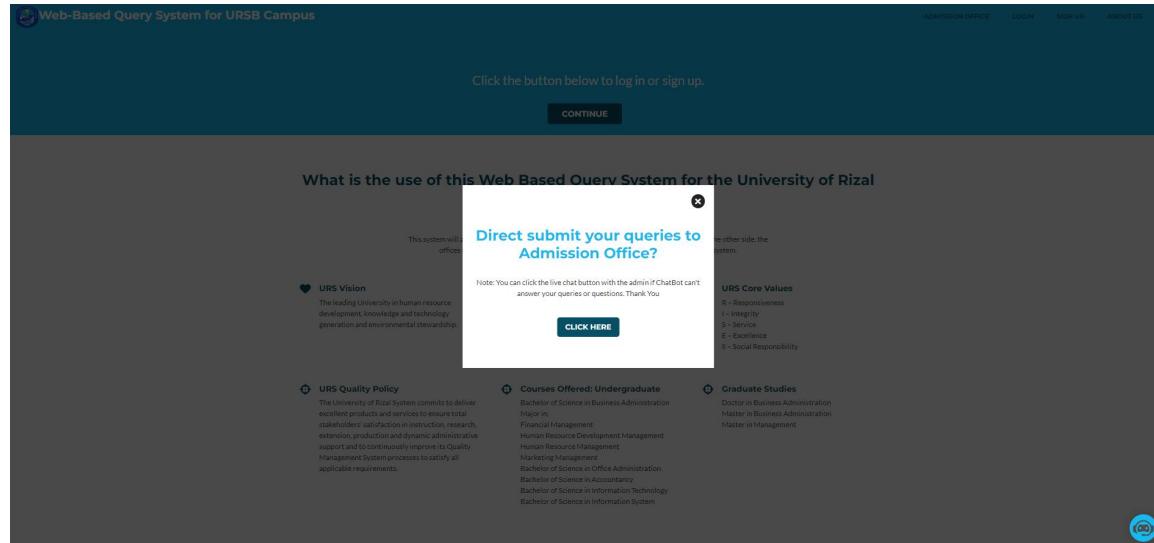
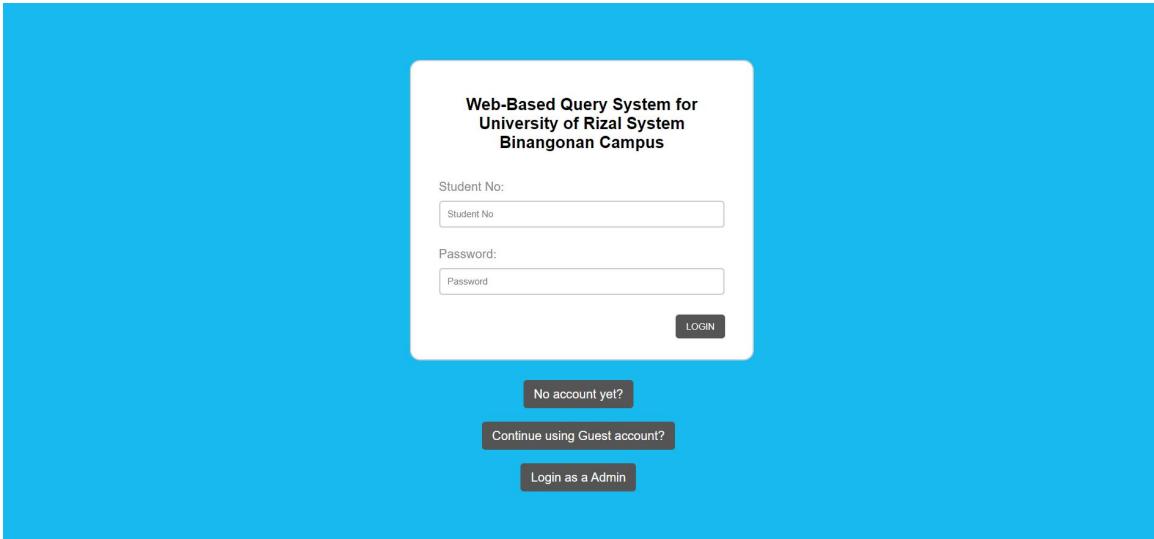
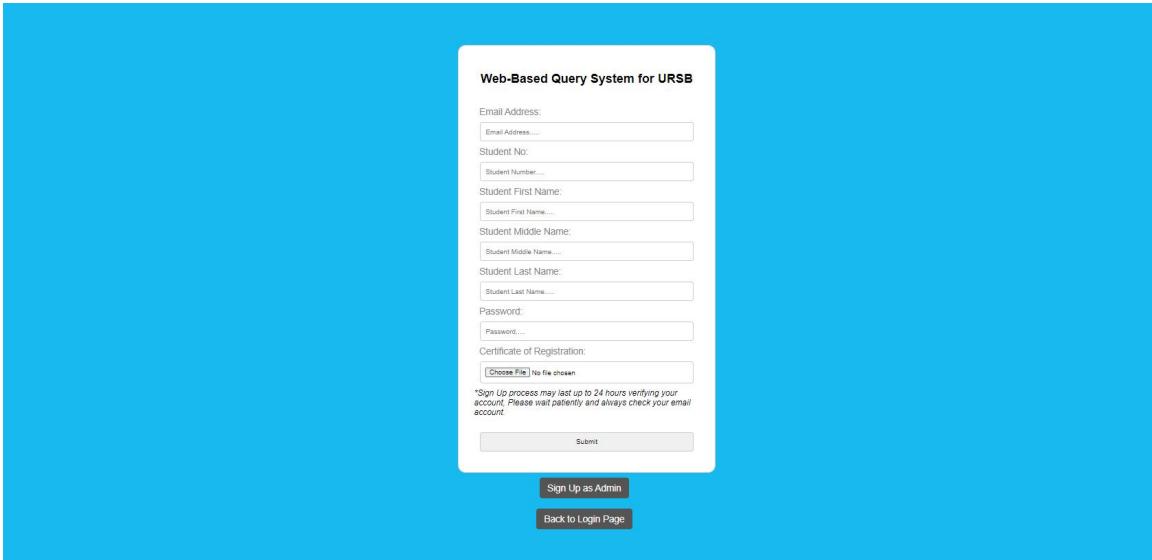


Figure 3
Message Box on the Landing Page



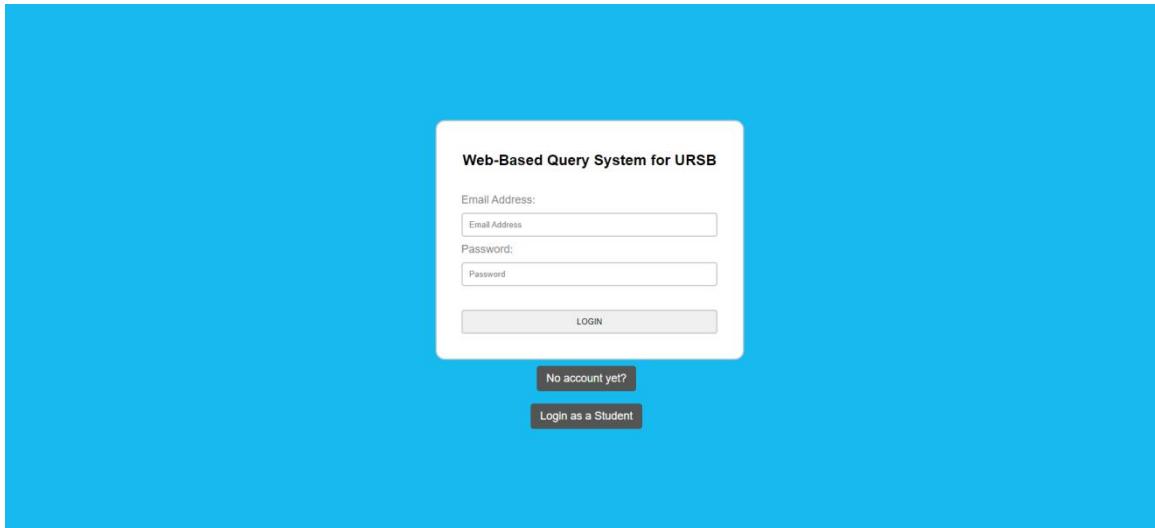
The Student Login Page features a central login form with the title "Web-Based Query System for University of Rizal System Binangonan Campus". It includes fields for "Student No." and "Password", a "LOGIN" button, and links for "No account yet?", "Continue using Guest account?", and "Login as a Admin".

Figure 4
Student Login Page



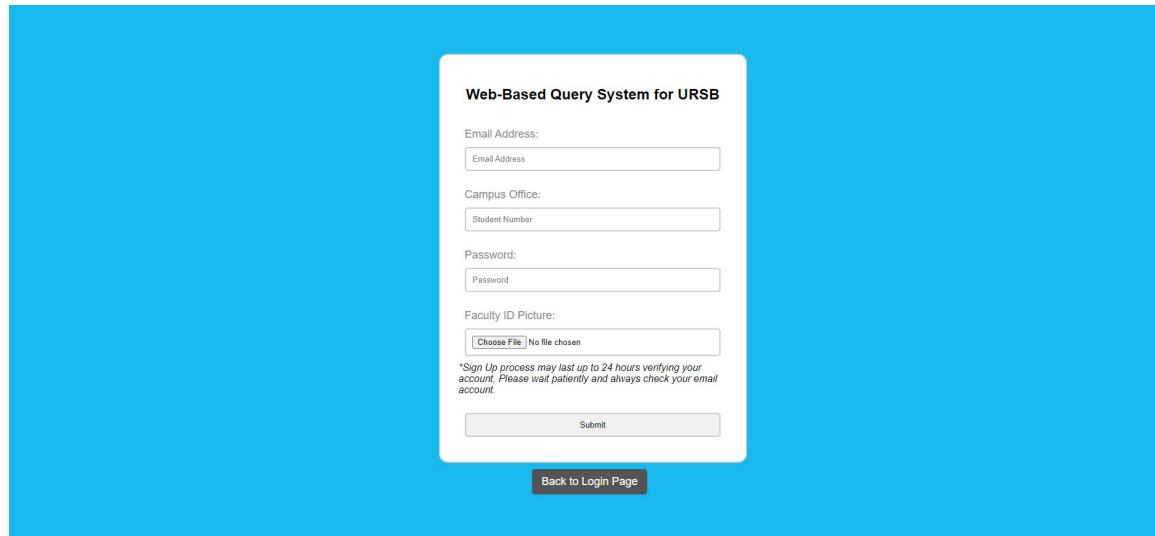
The Student Sign Up Page contains a form titled "Web-Based Query System for URSB" with fields for "Email Address", "Student No.", "Student Number", "Student First Name", "Student Middle Name", "Student Last Name", "Password", and "Certificate of Registration". It also includes a "Submit" button, a "Sign Up as Admin" link, and a "Back to Login Page" link.

Figure 5
Student Sign Up Page



The image shows the Admin Login Page of the Web-Based Query System for URSA. The page has a light blue background with a white login form in the center. The title "Web-Based Query System for URSA" is at the top. Below it are fields for "Email Address" and "Password", each with its own input box. A "LOGIN" button is centered below these fields. At the bottom of the form are two links: "No account yet?" and "Login as a Student".

Figure 6
Admin Login Page



The image shows the Admin Sign Up Page of the Web-Based Query System for URSA. The layout is similar to the login page, with a light blue background and a white sign-up form in the center. The title "Web-Based Query System for URSA" is at the top. It includes fields for "Email Address", "Campus Office" (with a dropdown menu showing "Student Number"), "Password", and "Faculty ID Picture" (with a file upload input). A note at the bottom states: "*Sign Up process may last up to 24 hours verifying your account. Please wait patiently and always check your email account." A "Submit" button is at the bottom of the form, and a "Back to Login Page" link is at the very bottom.

Figure 7
Admin Sign Up Page

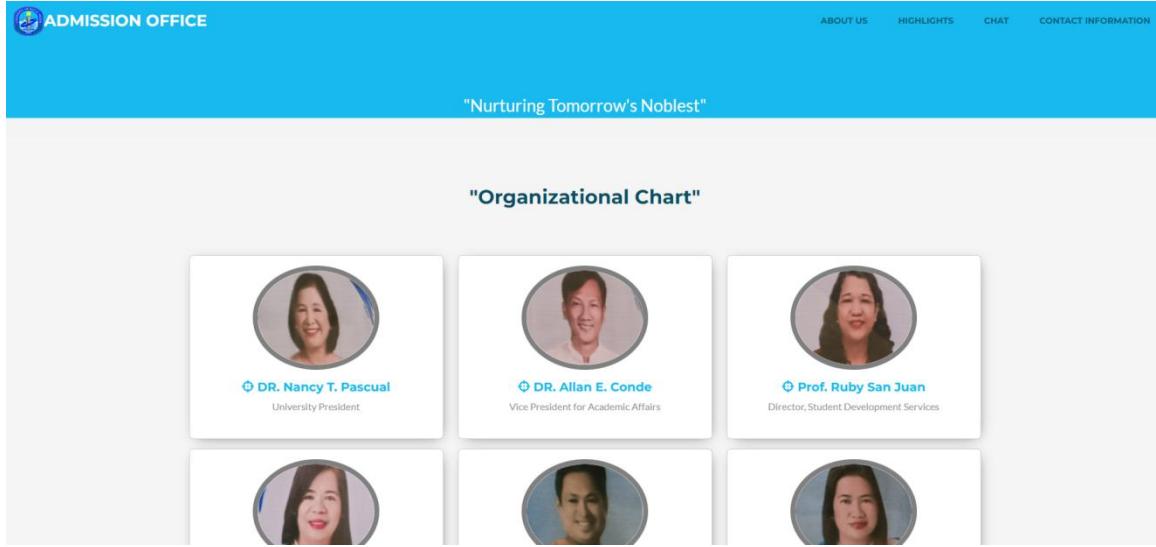


Figure 8
Guests Account for Admission Office

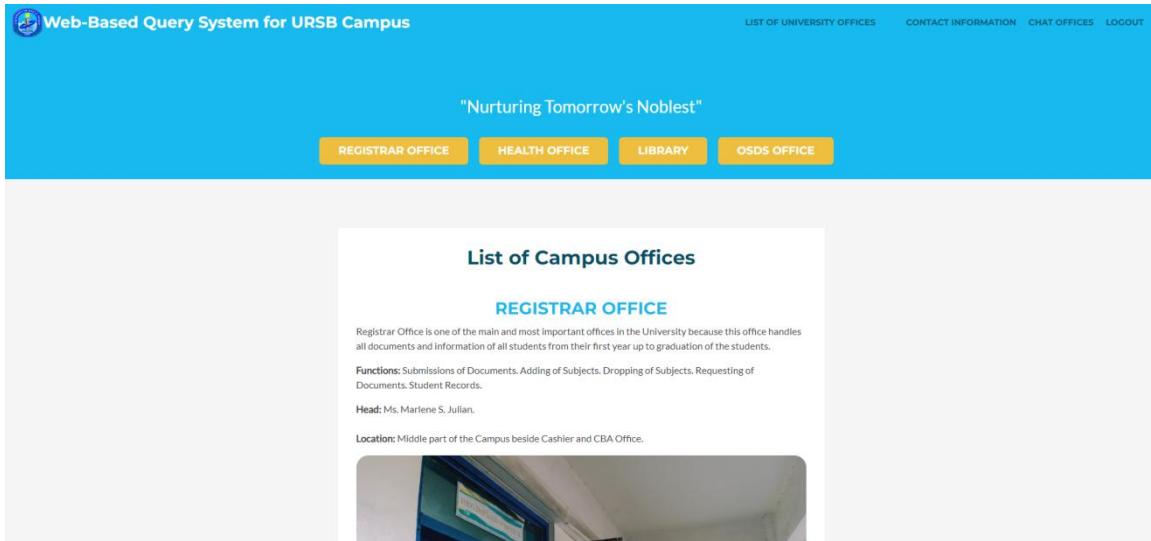


Figure 9
Student Home Page

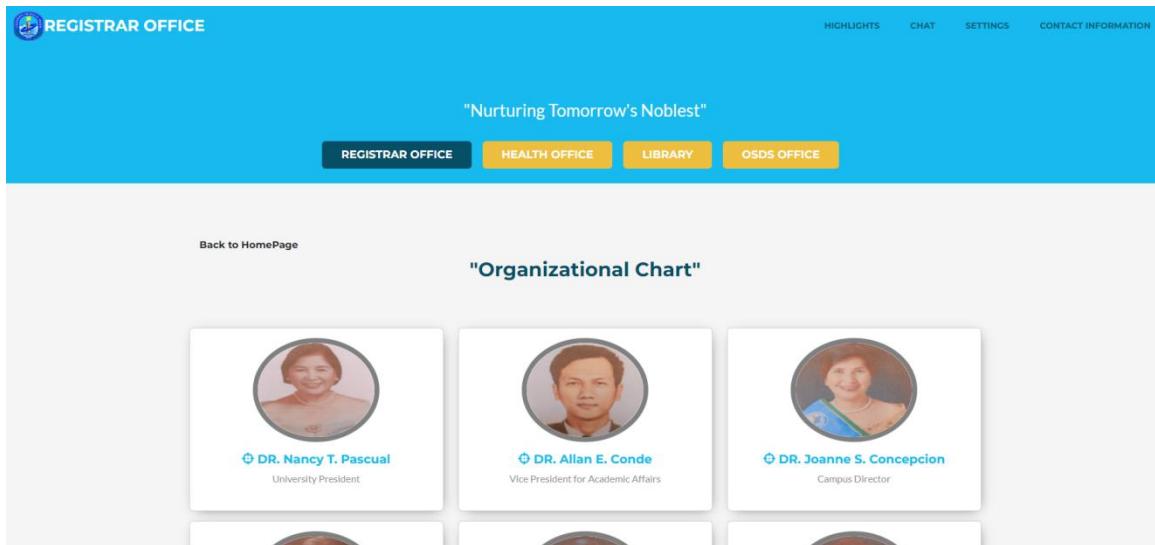


Figure 10
Offices Home Page

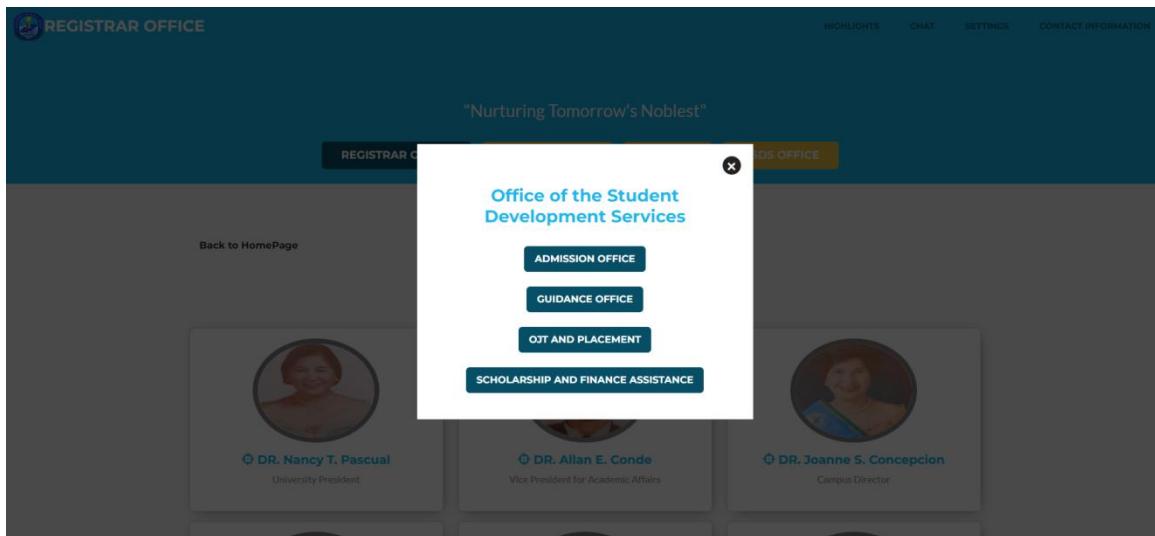


Figure 11
OSDS Offices Popup Box

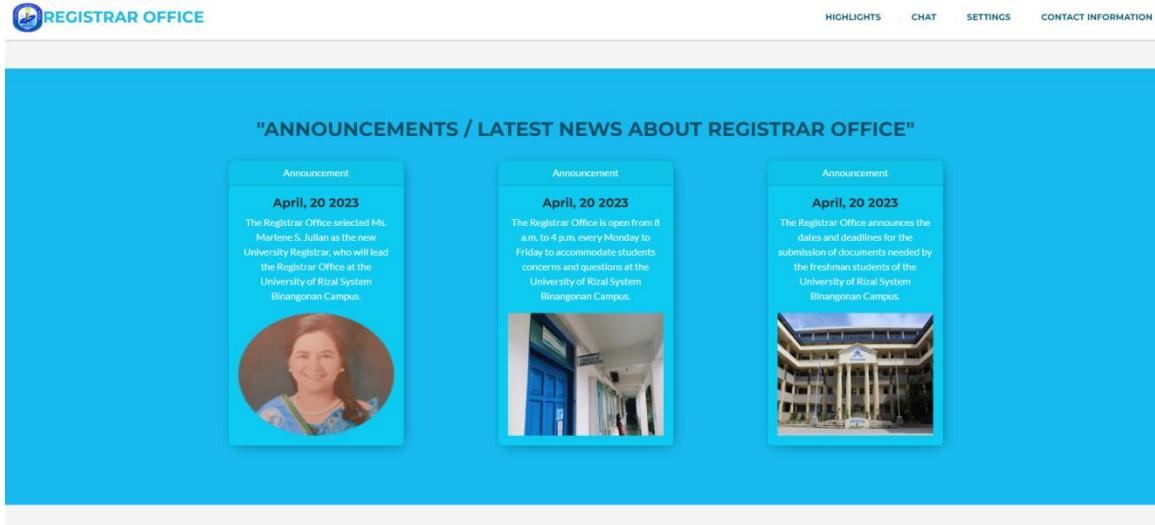


Figure 12
Offices Highlights / Announcements

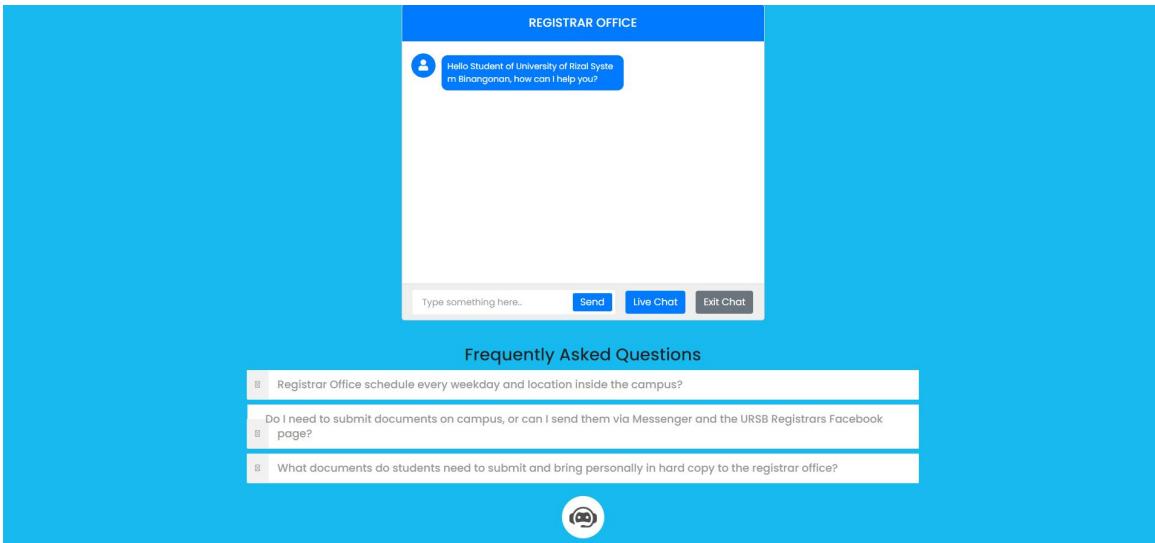


Figure 13
Offices Chat Bot Page

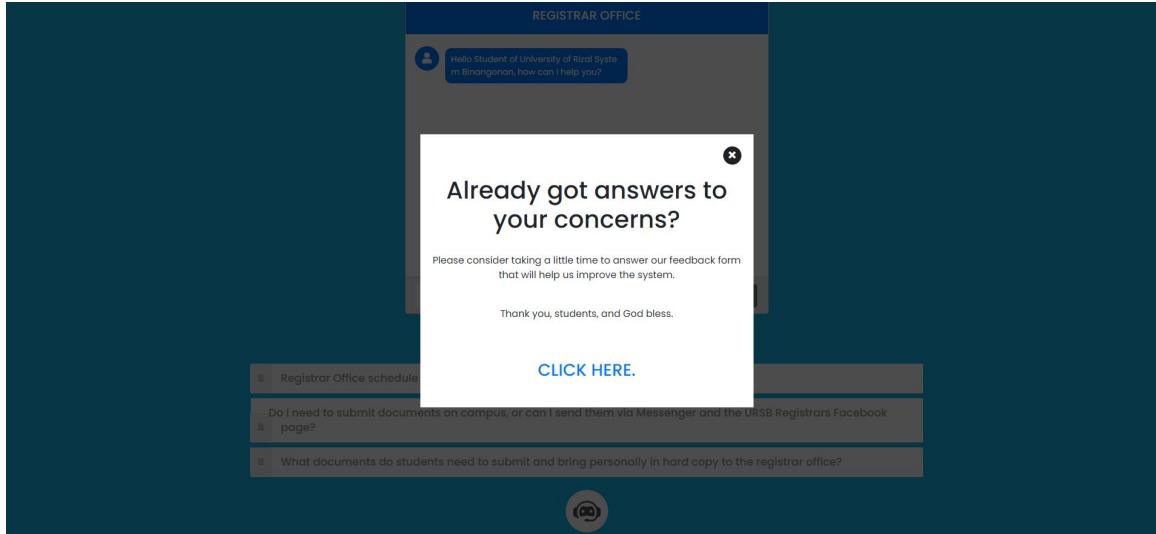


Figure 14
Offices Feedback form message box

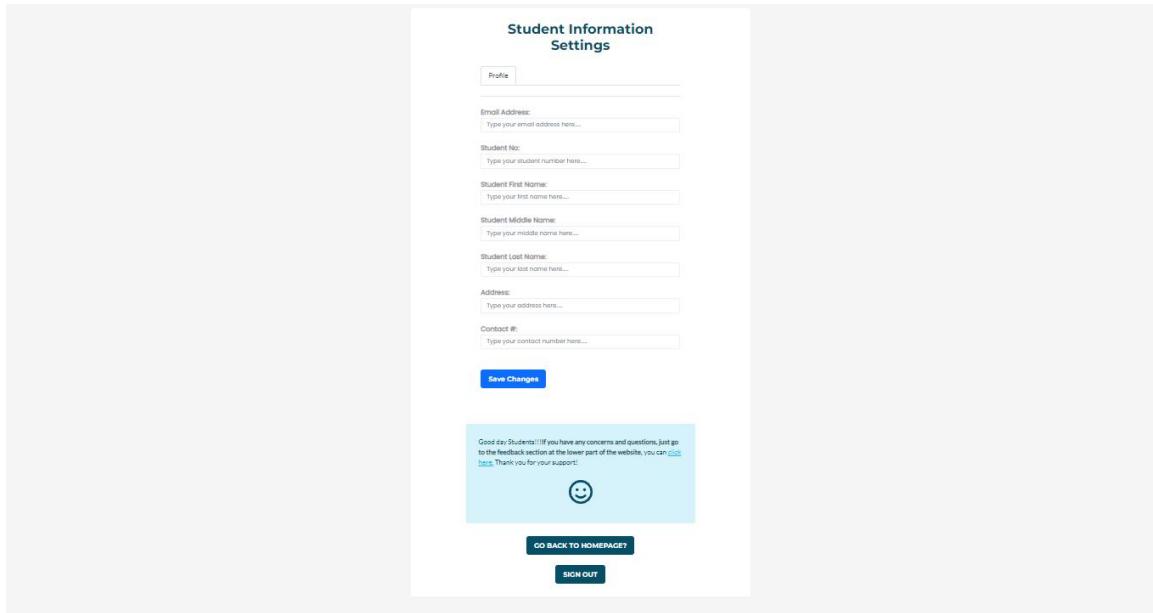


Figure 15
Student Settings

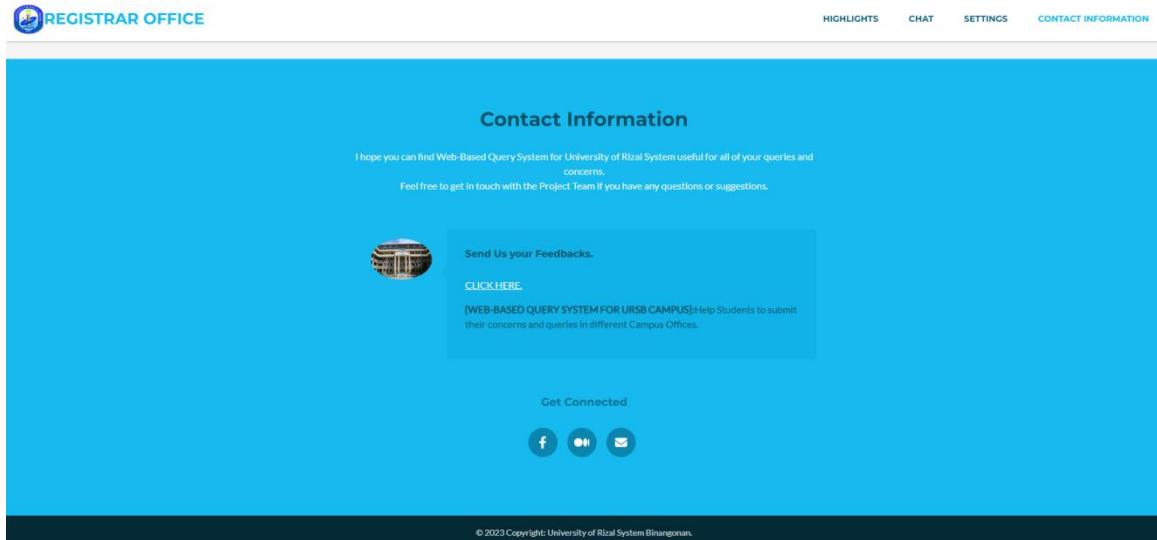


Figure 16
Contact Information Section

Figure 17
Super Admin Home Page

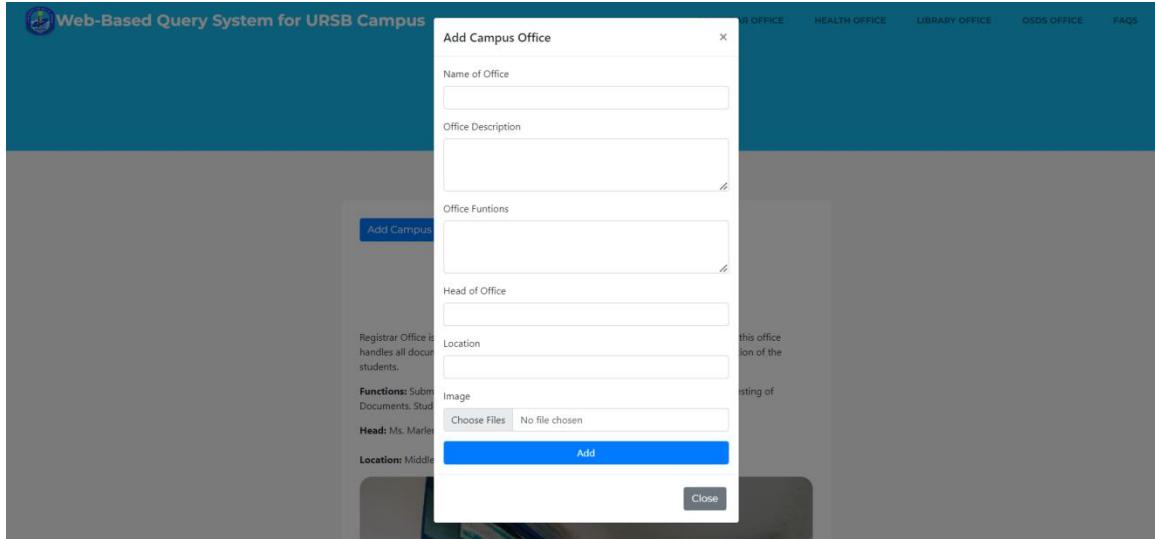


Figure 18
Display offices details on the Home Page

The screenshot shows the "Admin - REGISTRAR OFFICE" home page. At the top, there is a banner with the quote "Nurturing Tomorrow's Noblest". Below the banner, the title "Organizational Chart Registrar Office" is displayed. A grid of three profile cards is shown, each containing a circular photo, a name, and a title. The profiles are:

- DR. Nancy T. Pascual (University President)
- DR. Allan E. Conde (Vice President for Academic Affairs)
- DR. Joanne S. Concepcion (Campus Director)

Figure 19
Admin offices Home Page

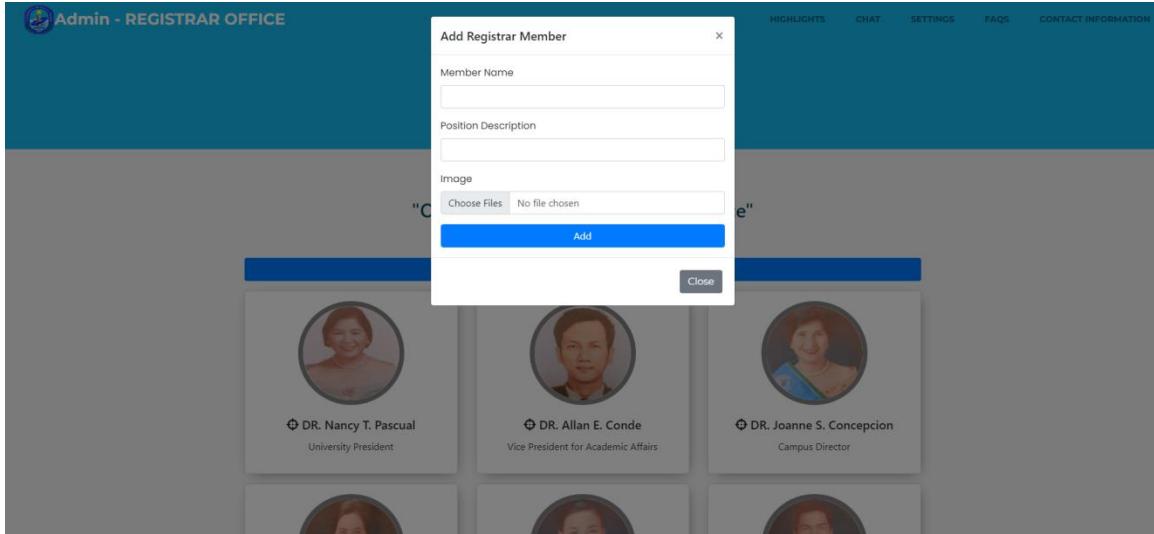


Figure 20
Admin offices add member on the Organizational Chart

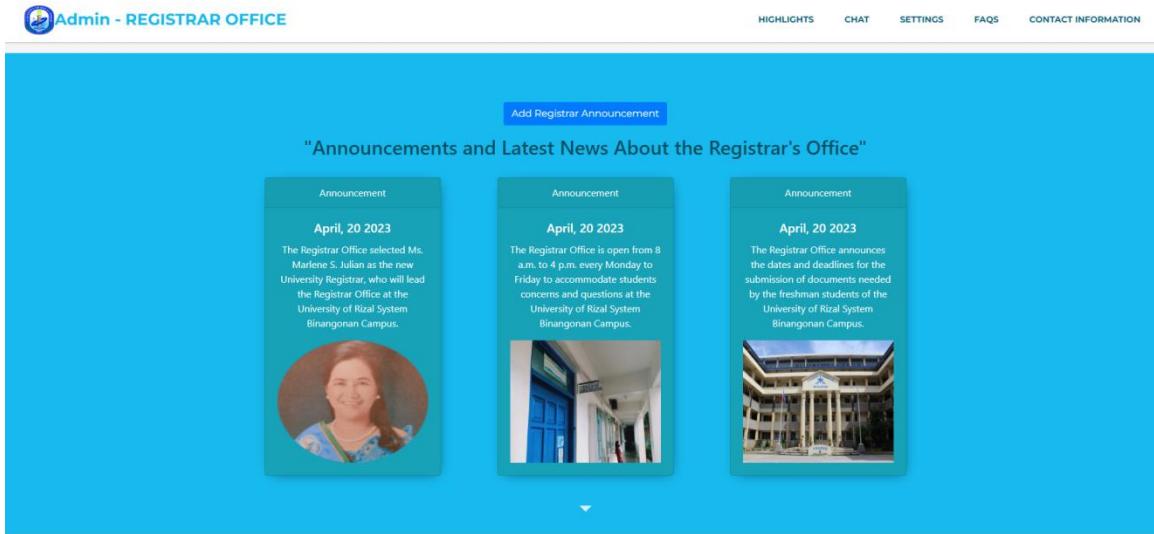


Figure 21
Admin offices highlights section

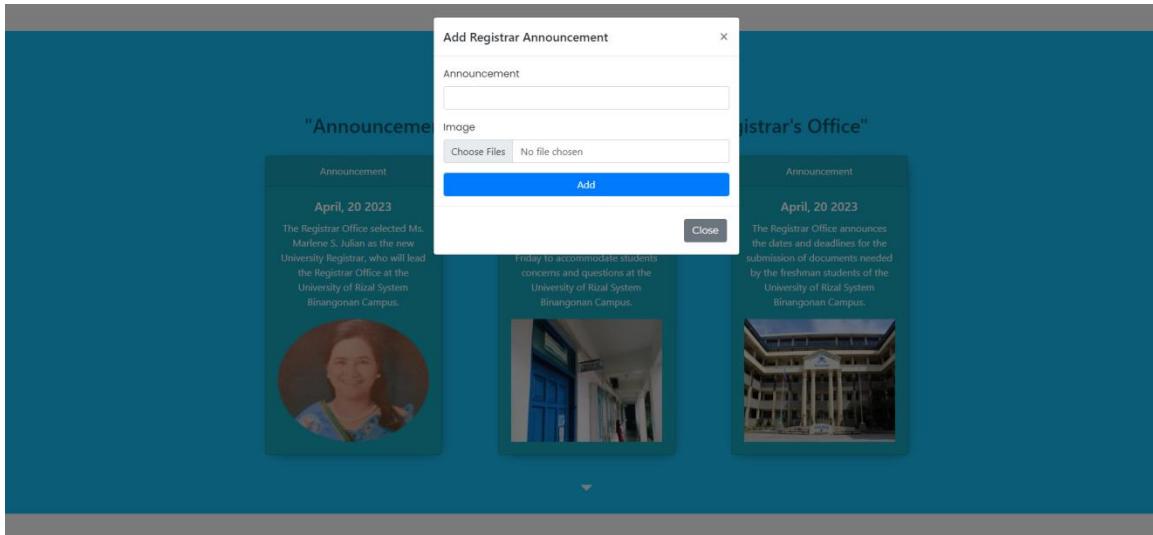


Figure 22
Admin offices highlights add announcements

Figure 23
Admin offices settings

The screenshot shows a web-based query system for URSB Campus. At the top, there is a logo and the text "Web-Based Query System for URSB Campus" followed by the motto "Nurturing Tomorrow's Noblest". Below this, a button labeled "Add Frequently Asked Questions" is visible. The main content area is titled "List of FAQS" and contains a table with three columns: "Question", "Answer", and "Department". The table has four rows of data.

Question	Answer	Department
Can I easily get a scholarship with the help of the University of Rizal System Binangonan Campus?	Yes, if you complete all the required documents needed to submit them, have no grade of 2.0 in any semesters, and are able to pass the examinations for the scholarship. Any news of scholarships will be posted on the official Facebook page of URSB.	Scholarship
What can the Scholarship and Finance Assistance Office mainly do?	The Scholarship and Financial Assistance Office gives students more opportunities to get financial assistance for their education from either government or private organizations.	Scholarship
Scholarship and Finance Assistance Office schedule every	Every Monday through Friday, from 8 a.m. to 5 p.m., the Scholarship and Finance Assistance	Scholarship

Figure 24
Admin offices FAQs Page

The screenshot shows the same web-based query system for URSB Campus. A modal dialog box titled "Add FAQS" is open in the center. It contains fields for "Enter Question", "Enter Answer", and "Select Department", along with a "Add FAQ" button. In the background, the "List of FAQS" table is partially visible. The "Add Frequently Asked Questions" button is also visible on the left side of the page.

Figure 25
Admin offices FAQs Page add frequently asked questions

The screenshot shows a Google Forms survey titled "Web-Based Query System Binangonan Campus - FEEDBACK FORM". At the top, there is a header image of a building with the text "CAGUINA & PINTOREZ BUILDING" and a small flag. Below the title, a message reads: "Good day student, This form is only used to learn about students experiences using the web-based query system for Binangonan Campus. All responses will use only the gathered information and feedback from students. Thank you and God bless for helping to improve the system." A user's email, "juannewanwan1@gmail.com", is listed as "Lumpat ng account". There are two questions with radio button options:

- Are you satisfied on the given response?
 - Yes
 - No
 - Partially
- Are the campus offices was able to solve your concerns?
 - Yes
 - No
 - Partially

Figure 26
Feedback Form on Google Forms

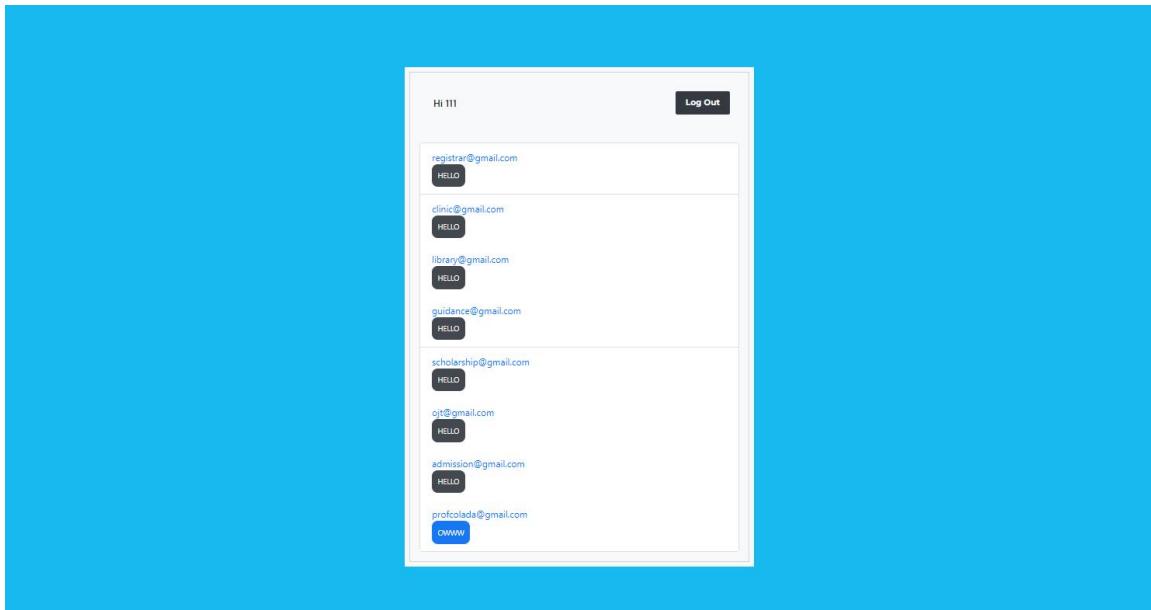


Figure 27
Live Chat Student Page

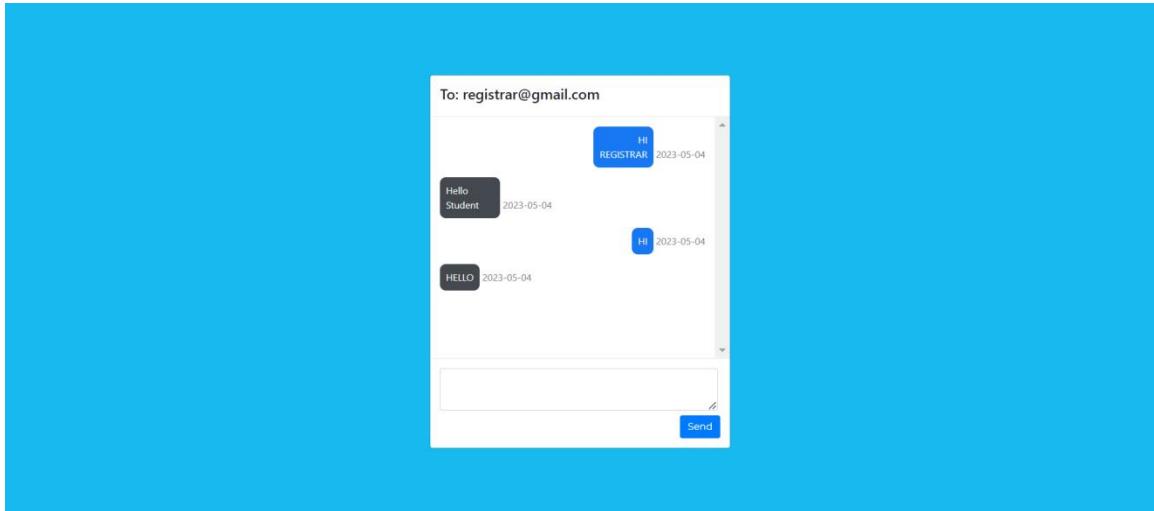


Figure 28
Live Chat Interface in each Offices

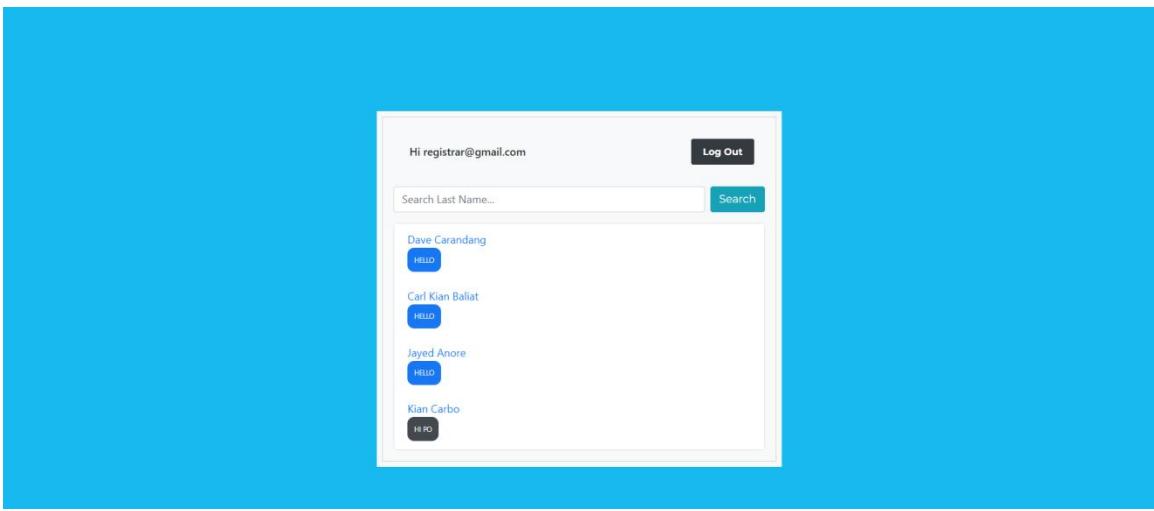


Figure 29
Live Chat Admin Page

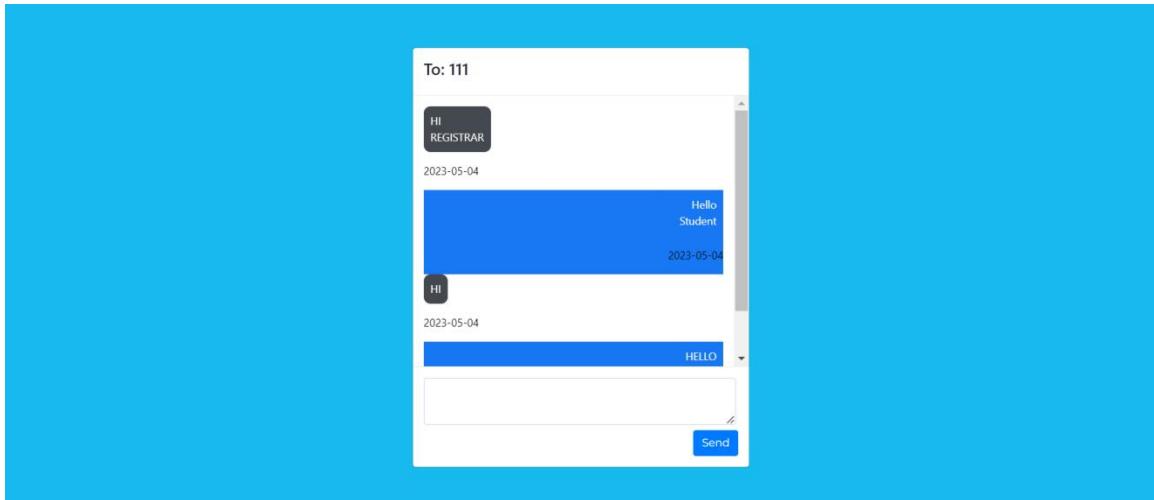


Figure 30
Live Chat Interface in each Students

A screenshot of a web-based query system. At the top, there's a navigation bar with links to REGISTRAR OFFICE, HEALTH OFFICE, LIBRARY OFFICE, OSDS OFFICE, FAQS, and CHAT REPORT. The main header reads "Web-Based Query System for URSB Campus" with a logo. Below the header is a quote: "'Nurturing Tomorrow's Noblest'". A "Reports" section is shown with two date inputs (01/05/2023 and 06/05/2023) and a "Filter" button. A table header row is visible with columns for "No. of Students", "Student Full Name", and "Chatted Date". At the bottom, there's a copyright notice: "© 2023 Copyright: University of Rizal System Binangonan."

Figure 31
Chat Reports

Software Requirements

During the development of the system, the project team used Visual Studio Code version 1.75 from 2023 for PHP as the programming language for the project and phpMyAdmin Mysql version 5.1.1 for the database of the project. Also, the project team used Bootstrap style designs for the designing of the system interface. The web-based query system for the University of Rizal System Binangonan Campus can run with any browser, like Google Chrome, Firefox, Microsoft Edge, and Opera.

Hardware Requirements

The Web-Based Query System for the University of Rizal Binangonan Campus requires the following hardware for smoother performance while using the system: A personal computer or laptop with at least an Intel Celeron processor and 4GB of RAM for faster access and better system performance while using the system in any browser like Google Chrome, Firefox, Microsoft Edge, and Opera.

Quality Assurance Test Plan

The quality assurance testing of the developed Web-Based Query System for University of Rizal System Binangonan Campus.

Table 1 shows the Query System for University of Rizal System Binangonan Campus. Passed 160 of 168 test items, yielding a calculated quality assurance testing score of 95%, exceed passing percentage of 90%. This signifies that the Web-Based Query System developed passed the quality assurance testing.

Table 1

Composite Table of the Quality Assurance Testing of the Web-Based Query System for University of Rizal System Binangonan Campus.

Test Case Number	Test Function	Number of Items	Number of Item Passed
1	Landing Page	6	7
2	Landing Page Popup Box	2	2
3	.Student Login	6	6
4	Student Sign Up	10	11
5	Admin Login	5	5
6	Admin Sign Up	6	7
7	Admission office guests account page.	4	4
8	Student home page.	8	8

9	Contact Information section.	4	4
10	OSDS office message box.	5	5
11	Seven Offices Home Page.	8	8
12	Student Information Settings.	11	12
13	Seven Offices Chatbot Page.	9	9
14	Popup message box in the Chatbot Page in the seven offices.	2	2
15	Super admins homepage.	8	9
16	Add Campus Office details to the homepage.	9	9
17	OSDS Office message box.	5	5
18	Admin Seven Offices homepage.	7	7
19	Admin Information Settings.	7	8
20	Add office members to the organizational chart.	6	6
21	Add office Announcement.	5	5
22	Admin FAQs Page.	1	1
23	Admin add FAQs.	6	6
24	Student Live Chat Page.	8	8
25	Student Live Chat Page each offices.	3	3
26	Admin Live Chat Page.	4	4
27	Admin Live Chat Page each student.	3	3
28	Chat Reports Page.	3	4

User Acceptance Testing

The user acceptance testing of the developed Web-Based Query System for University of Rizal System – Binangonan Campus as perceived by the respondents.

Table 1

Computed Weighted Mean on the Level of Acceptability of the Developed Web-Based Query System for University of Rizal System-Binangonan Campus with respect to Functional Suitability

1.Functional Suitability	Mean	Rank	Verbal Interpretation
1.1 The developed system covers all the specified tasks and objectives of the end users	4.29	1	Acceptable
1.2 The developed system provides the correct results with the needed degree of precision.	4.64	2	Acceptable
1.3 The developed system facilitates the accomplishment of specified tasks and objectives of the end users	4.79	3	Acceptable
Average Weighted Mean	4.57		Acceptable

Table 2 shows that the system scored particularly well in terms of functionality with an average of 4.57, indicating that it can effectively and efficiently adapt to different environments. This is an important aspect of software quality, as it ensures that the software can meet the needs of a wide range of users and use cases.

As per Sallo et. al, (2015) The function suitability means the degree to which a product or system provides functions that meet stated and implied needs when used under specified conditions which means this shows that the developed

system has created a user-friendly and intuitive system that meets the needs of its users. Therefore, system can be assessed as useful.

Table 2

Computed Weighted Mean on the Level of Acceptability of the Developed Web-Based Query System for University of Rizal System-Binangonan Campus with respect to Reliability

2. Reliability	Mean	Rank	Verbal Interpretation
2.1 The developed system meets needs for reliability under normal operation.	4.07	1	Acceptable
2.2 The developed system is operational and accessible when required for use.	4.86	4	Acceptable
2.3 The developed system operates as intended despite the presence of hardware or software faults.	4.57	3	Acceptable
2.4 The developed system can recover the data in the event of an interruption or a failure	4.36	2	Acceptable
Average Weighted Mean	4.46		Acceptable

On the other hand, the reliability score of a system is a crucial metric that measures its ability to perform tasks and achieve objectives. In this case, the system were rated as "Acceptable" with an average of 4.46, meaning it is dependable and efficient in delivering results across all its modules. The availability of the system was also commendable, with a high overall score. This indicates that the system were always accessible and operational, ensuring that users could utilize it whenever required. Overall, the reliability score is an essential metric that indicates the effectiveness of a system in meeting its intended purpose. Based on Nasadha (2022) Reliability in software can be defined as "the probability of a computer program performing its intended

functions, without any failures for a specified time under a specified environment".

Moreover, the Web-based query system for URSB can be perceived as 'reliable'.

Table 3

Computed Weighted Mean on the Level of Acceptability of the Developed Web-Based Query System for University of Rizal System-Binangonan Campus with respect to Portability

3. Portability	Mean	Rank	Verbal Interpretation
3.1 The developed system can effectively and efficiently be adapted for different or evolving software or other operational or usage environments.	4.50	2.5	Acceptable
3.2 The developed system can be successfully installed and/or uninstalled in a specified environment.	4.50	2.5	Acceptable
3.3 The developed system can replace another specified software product for the same purpose in the same environment.	4.29	1	Acceptable
3.4 A product can replace another specified software product for the same purpose in the same environment	4.79	4	Acceptable
3.5 A product or system can increase efficiency and productivity by reducing the time and cost involved in delivering instructions.	4.57	5	Acceptable
Average Weighted Mean	4.53		Acceptable

With a "Acceptable" rating for portability and average of 4.53, it shows that the developed system can be easily transferred and installed on different hardware and software platforms without any major issues. With the average and rated results above, respondents believe that the Web-based query system for URSB can save time and resources in the long run, as it eliminates the need to

develop different versions of the system for different environments. It also ensures that users can access and use the system regardless of their hardware or software preferences.

Table 4

Computed Weighted Mean on the Level of Acceptability of the Developed Web-Based Query System for University of Rizal System-Binangonan Campus with respect to Usability

4. Usability	Mean	Rank	Verbal Interpretation
4.1 The developed system is appropriate for their needs of the end-user.	4.14	1	Acceptable
4.2 The developed system enables the user to learn how to use it with efficiency.	4.79	5	Acceptable
4.3 The developed system is easy to operate, control and appropriate to use.	4.64	4	Acceptable
4.4 The developed system protects users against making errors.	4.93	6	Acceptable
4.5 The developed system user interface enables pleasing and satisfying interaction for the user.	4.43	2	Acceptable
4.6 The developed system can be used by people with the widest range of characteristics and capabilities to achieve a specified goal in a specified context of use.	4.57	3	Acceptable
Average Weighted Mean	4.58		Acceptable

The system's usability score rate as "Acceptable" as well with an average of 4.58. The user error protection indicator ranked first among the sub-indicators. With users already familiar with the latest technologies like mobile devices and social media, integrating these into the system is a smart move. Consequently, the result only shows that the Web-based query system for URSB is more accessible and user-friendly, reducing the likelihood of errors. Overall, the system has a good usability score since its essential for ensuring that users have

a positive experience with the system and are more likely to continue using it.

Table 5

Computed Weighted Mean on the Level of Acceptability of the Developed Web-Based Query System for University of Rizal System-Binangonan Campus with respect to Performance Efficiency

5. Performance Efficiency	Mean	Rank	Verbal Interpretation
5.1 The developed system meets the requirements on its response and processing times and throughput rates when performing its functions	4.93	3	Acceptable
5.2 The developed system efficiently used the required amounts and types of resources when performing its functions.	4.86	2	Acceptable
5.3 The developed system maximum limits meet requirements of the end user	4.79	1	Acceptable
Average Weighted Mean	4.86		Acceptable

Performance criteria got a higher score which is 4.88. Stable bandwidth access is crucial for optimal system performance. Higher bandwidth will result in better response times, improved processing, and higher throughput, which can significantly enhance the overall user experience. It's also important to note that the types of resources used in accessing the system can impact performance efficiency, and using high-quality resources that are compatible with the system's capabilities is recommended. This includes using modern browsers and devices to ensure optimal system performance. Moreover, system is perceived with a high-performance efficiency which means its function spends little to no effort to use and requires no expense to perform.

Table 6

Computed Weighted Mean on the Level of Acceptability of the Developed Web-Based Query System for University of Rizal System-Binangonan Campus with respect to Security

6. Security	Mean	Rank	Verbal Interpretation
6.1 The developed system ensures that data are accessible only to those authorized to have access.	4.43	3	Acceptable
6.2 The developed system prevents unauthorized access or modification.	4.14	1	Acceptable
6.3 The developed System actions or events can be proven to have taken place, so that the events or actions cannot be repudiated later.	4.50	4.5	Acceptable
6.4 The developed system allows to traced the actions of an entity uniquely.	4.50	4.5	Acceptable
6.5 The developed system allows the identity of a subject or resource can be proved to be the one claimed.	4.21	2	Acceptable
Average Weighted Mean	4.92		Acceptable

The system has a high security score as well, gaining 4.36 on average. The confidentiality, accountability, and integrity sub-factors are all crucial for ensuring the safety and privacy of data. The security log-in access feature is a key component of this, as it restricts access to authorized users only. Hence, the Web-Based query system helps to prevent any unauthorized access or modifications to the data. The auditable records feature is also a great addition, as it allows for a clear and transparent record of all actions taken within the system. Overall, the system has strong security measures in place to protect the data it contains.

Table 7

Computed Weighted Mean on the Level of Acceptability of the Developed Web-Based Query System for University of Rizal System-Binangonan Campus with respect to Compatibility

7. Compatibility	Mean	Rank	Verbal Interpretation
7.1 The develop System can perform its required functions efficiently while sharing a common environment and resources with other system, without negative impact.	4.57	1	Acceptable
7.2 The develop system can exchange and use the information of other system.	4.50	2	Acceptable
Average Weighted Mean	4.54		Acceptable

The compatibility score of the system is an essential metric that determines its ability to function well in a shared environment. A "Acceptable" score and average of 4.54 indicates that the system performed its required functions effectively. The system's compatibility is also related to its portability, which means it can be accessed through other devices in a network since this is web-based. This feature provides an avenue for the exchange and use of information, making the system more efficient and user-friendly. This also strengthens the studies of Hanna (2013) that compatibility ensures an optimal user experience.

Table 8

Computed Weighted Mean on the Level of Acceptability of the Developed Web-Based Query System for University of Rizal System-Binangonan Campus with respect to Maintability

8. Maintainability	Mean	Rank	Verbal Interpretation
---------------------------	-------------	-------------	------------------------------

8.1 The developed system composed of discrete components such that a change to one component has minimal impact on other components.	4.07	1	Acceptable
8.2 The developed system asset can be used in more than one form.	4.29	2.5	Acceptable
8.3 The developed system can efficiently change one or more of its parts in which it is possible to assess its impact on the system to diagnose the deficiencies of the parts to be modified.	4.29	2.5	Acceptable
8.4 The developed system can be effectively and efficiently modified without introducing defects or degrading existing system quality.	4.36	4.5	Acceptable
8.5 The developed system can establish criteria for the system to perform tests to determine whether those criteria have been met.	4.36	4.5	Acceptable
Average Weighted Mean	4.27		Acceptable

The system has a "Acceptable" Maintainability score and an average of 4.27 Based on the sub-indicators, it seems that the system is highly testable and modifiable, which is important for future maintenance and updates. The fact that users can modify the system's settings without causing defects or quality issues is also a positive sign of the system's overall maintainability. It's always important to prioritize maintainability in software development to ensure that the system can continue to meet the needs of its users over time, as Wang (2016) mentioned Maintainability is the measure of the ability of an item to be retained in or restored to a specified condition when maintenance is performed by personnel having specified skill levels using prescribed procedures and resources at each prescribed level of maintenance and repair. For that reason, the system is considered as easy to maintain, which will be more reliable for the users.

Table 9

Computed Weighted Mean on the Level of Acceptability of the Developed Web-Based Query System for University of Rizal System-Binangonan Campus with respect to different variables.

Measure	Weighted Mean	Descriptive Rating
Functionality	4.57	Acceptable
Reliability	4.46	Acceptable
Usability	4.58	Acceptable
Portability	4.53	Acceptable
Performance	4.86	Acceptable
Security	4.36	Acceptable
Compatibility	4.54	Acceptable
Maintainability	4.27	Acceptable
Grand Mean	4.52	Acceptable

According to the displayed table, the respondents rated the web-based query system for University of Rizal System – Binangonan Campus as acceptable in all of the ISO 25010 criteria used to assess the quality of the software. The user acceptance testing of the system resulted in an overall weighted mean of 4.52, which indicates that it is "Acceptable" based on verbal interpretation. This suggests that the developed system performs well in relation to the specific criteria mentioned, such as response and processing time throughput rates, and is fully operational.

Therefore, it can be noted that the system being developed meets all functionalities of a reliable system that would contribute to the success of the institution. This also satisfies the article that dramatically and various students-related information contents are also doubled. In the face of huge amount of information, it is required to possess the student information management system to improve the efficiency of student management. Through this system, the standardized management, scientific statistics and fast query of student

information can be realized, and thus the workload of management can be reduced.

BIBLIOGRAPHY

A. Books

- Buan, AA et. al. (2017) DPC ONLINE PORTAL, P1 and 2.
- Cadiz, P.L.S., & Dorado , D.A.D (2013), "Development of an SMS-based library querying system for the UP Integrated School Library"
- Gu, Wenzuan & Yuan, Cao. (2016). A New Query Method Based on Distance Education Database. 10.2991/emim-16.2016.133.
- Lakshmi, Brundavana, M. et. al. (2016), "Online Query System" International Journal of Emerging Trends in Engineering Research, Vol. 4. No. 10, pages 237-239.
- Mallo-Eustaquio, G. G., Pascua, S. M., & Dorado, D. A. D. (2018). "Design and implementation of EMRC web-based portal"
- Oliha, F.O, (2014), "Web Portal Usability among Nigerian University Students: A Case Study of University of Benin, Nigeria", <https://www.ajol.info/index.php/njt/article/view/107658>
- Pinho, C et. al. (2022) Influence of web portals on management support and university performance: an information quality perspective, volume 56, pages 3729–3749.
- S. S. Devi, M. K. Kumar and K. Naveen, "Structured Query Language (SQL) based College Management System," 2022 7th International Conference on Communication and Electronics Systems (ICCES), 2022, pp. 1697-1703, doi: 10.1109/ICCES54183.2022.9835828.
- Secreto, PV et. al. (2015) Learners' satisfaction level with online student portal as a support system in an open and distance Elearning environment (ODeL), Turkish Online Journal of Distance Education 16(3)

B. Literature

- Alatawi, S et. al. (2020) , Current Situation of Students' Portal and Their needs: A Case Study in Saudi Arabia Universities: Students Perspective, International Journal of Advanced Trends in Computer Science and Engineering 9(5):8075- 8080
- DALE, R. (2016). "The return of the chatbots". Natural Language Engineering, 22(5), 811-817. doi:10.1017/S135132491600024
- Diaz, C (2001) Corporate portals: a literature review of a new concept in Information Management, International Journal of Information Management

21 (2001) 269–287

Hussain, A et. al.(2018) Assessing and testing the usability of student portal, AIP Conference Proceedings 2016, 020051 (2018);

Otaduy. I et. Al. (2017),"User acceptance testing for Agile-developed web-based applications: Empowering customers through wikis and mind maps" pages 212-229.

Romao G. (2021) "A Literature Review on chatbots in education: An intelligent chat agent" pp 1 & 2

Saleem, G et. Al. (2016) "Quality assurance of web services: A systematic literature review".DOI:10.1109/CompComm.2016.7924932.

The LawPhil Project (1997) Republic Act No. 8292;
https://lawphil.net/statutes/repacts/ra1997/ra_8292_1997.html

APPENDICES

Appendix A

Gantt Chart of Activities

Appendix B

Project Team Assignment Form



Republic of the Philippines
UNIVERSITY OF RIZAL SYSTEM
 Province of Rizal
www.urs.edu.ph



Email Address: ursmain@urs.edu.ph / urs.opmorong@gmail.com
 Main Campus: URS Tanay Tel. (02) 8401-4900; 8401-4910; 8401-4911; 8539-9957 to 58

Office of the Dean - College of Computer Studies, URS Binangonan
 Tel. No. (02) 8539-9935 loc. 305 Email Address: deanccsbin@urs.edu.ph

FORM A

PROJECT TEAM ASSIGNMENT FORM

COLLEGE OF COMPUTER STUDIES | COLLEGE OF COMPUTER STUDIES

Team Alias	TGP
Subject Teacher	Mrs. Joyce Lyn Abaoag

Name and Signature	Role	Email address	Mobile Number
Mariella B. Buque	Project Manager	mariellabbuque662@gmail.com	09502715269
Carl Kian C. Balias	Lead Programmer	kiannnn005@gmail.com	09298769918
Rheabelle V. Capayas	Creative Director	pandapigkaneki@gmail.com	09157682269
Jayed Andrei V. Anore	Documentation Specialist	anorejayed09@gmail.com	09184859650

Approved by:

MRS. JOYCE LYN ABAOAG, MSME

Subject Instructor

Nurturing Tomorrow's Noblest

URS Angono	Tel. 8539-9930 to 31	URS Cainta	Tel. 8539-9938 to 39
URS Antipolo	Tel. 8539-9932 to 34	URS Cardona	Tel. 8539-9940 to 41
URS Binangonan	Tel. 8539-9935 to 37	URS Morong	Tel. 8539-9950 to 56
			URS Pililla
			Tel. 8539-9942 to 44
			URS Rodriguez
			Tel. 8539-9945 to 47
			URS Taytay
			Tel. 8539-9948 to 49

Appendix C

Approved Project Form



Republic of the Philippines
UNIVERSITY OF RIZAL SYSTEM
 Province of Rizal
www.urs.edu.ph



Email Address: ursmain@urs.edu.ph / urs.opmorong@gmail.com
 Main Campus: URS Tanay Tel. (02) 8401-4900; 8401-4910; 8401-4911; 8539-9957 to 58

College of Computer Studies - URS Binangonan

APPROVED PROJECT TITLE FORM

Project Team:

1. Mariella B. Buque
2. Carl Kian C. Balias
3. Jayed Andrei V. Anore
4. Rheabelle V. Capayas

Approved Project Title:

WEB-BASED QUERY SYSTEM FOR UNIVERSITY OF RIZAL SYSTEM -
 BINANGONAN CAMPUS

Recommending Approval:

JOYCE LYN M. ABAOAG, MSME
 Capstone Project Instructor

Date: September 19, 2022

Approved:

JOY SG CRUZ, PhD. (Cand)
 Dean, CCS

Date: September 19, 2022

Nurturing Tomorrow's Nobles!

URS Angono
 URS Antipolo
 URS Binangonan

Tel. 8539-9930 to 31
 Tel. 8539-9932 to 34
 Tel. 8539-9935 to 37

URS Cainta
 URS Cardona
 URS Morong

Tel. 8539-9938 to 39
 Tel. 8539-9940 to 41
 Tel. 8539-9950 to 56

URS Pililla
 URS Rodriguez
 URS Taytay

Tel. 8539-9942 to 44
 Tel. 8539-9945 to 47
 Tel. 8539-9948 to 49

Appendix D

Letter of Permission to Conduct a Study



Email Address: ursmain@urs.edu.ph /urs.opmcrong@gmail.com
Main Campus: URS Tanay Tel. (02) 8401-4900; 8401-4910; 8401-4911; 8539-9957 lo 58

Office of the Dean - College of Computer Studies, URS Binangonan
Tel. No. (02) 8539-9935 loc. 305 Email Address: deanccsbin@urs.edu.ph

Date: September 13, 2022

Ms. Marlene S. Julian
University Registrar
Registrar Office
University of Rizal System – Binangonan Campus
Manila E Rd, Binangonan, 1940 Rizal.

Dear Ms. Julian,

Peace greetings!

The undersigned are currently enrolled in the Capstone Project, which requires a final paper to complete a degree of Bachelor of Science in Information System at the University of Rizal System Binangonan, and we are in the process of writing our proposal entitled **Web-Based Query System for University Of Rizal System – Binangonan Campus**

In this regard, we are writing to request permission to answer a questionnaire in behalf of the URSB Registrar Office for us to gather necessary data regarding the products and services that you offer, as well as on different transactions/operations handled in your office that might be useful to our project.

Your consideration and approval to conduct this project will be greatly appreciated.

Thank you and more power to your institution.

Yours,
Mariella B. Buque
Jayed Andrei V. Anore
Carl Kian C. Balat
Rheabelle V. Capayas
Project Team

44-10
A
~~1000~~
1000

Noted:
JOYCE LYN M. ABAOAG, MSME
Subject Instructor

JOY SG. CRUZ, PhD (Cand.)
College Dean

Nurturing Tomorrow's Noblest

URS Angono	Tel. 8539-9930 to 31	URS Caista	Tel. 8539-9938 to 39	URS Pilia	Tel. 8539-9942 to 44
URS Antipolo	Tel. 8539-9932 to 34	URS Cardona	Tel. 8539-9940 to 41	URS Rodriguez	Tel. 8539-9945 to 47
URS Binangonan	Tel. 8539-9935 to 37	URS Morong	Tel. 8539-9950 to 56	URS Taytay	Tel. 8539-9948 to 49



Republic of the Philippines
UNIVERSITY OF RIZAL SYSTEM
 Province of Rizal
www.urs.edu.ph



Email Address: ursmain@urs.edu.ph / urs.opmorong@gmail.com
 Main Campus: URS Tanay Tel. (02) 8401-4900, 8401-4910; 8401-4911; 8539-9957 to 58

Office of the Dean - College of Computer Studies, URS Binangonan
 Tel. No. (02) 8539-9935 loc. 305 Email Address: deanccsbin@urs.edu.ph

Date: September 13, 2022

Ms. Vivian A. Lirio

Librarian

Library Office

University of Rizal System – Binangonan Campus
 Manila E Rd, Binangonan, 1940 Rizal

Dear Ms. Lirio,

Peace greetings!

The undersigned are currently enrolled in the Capstone Project, which requires a final paper to complete a degree of Bachelor of Science in Information System at the University of Rizal System Binangonan, and we are in the process of writing our proposal entitled **Web-Based Query System for University Of Rizal System – Binangonan Campus.**

In this regard, we are writing to request permission to answer a questionnaire in behalf of the URSB Library Office for us to gather necessary data regarding the products and services that you offer, as well as on different transactions/operations handled in your office that might be useful to our project.

Your consideration and approval to conduct this project will be greatly appreciated.

Thank you and more power to your institution.

Yours,

Mariella B. Buque

Jayed Andrei V. Anore

Carl Kian C. Balias

Rheabelle V. Capayas

Project Team

HHR
A
EBB
JVC

Noted:

JOYCE LYN M. ABAOAG, MSME

Subject Instructor

JOY SG. CRUZ, PhD (Cand.)

College Dean

Nurturing Tomorrow's Noblest

URS Angono
 URS Antipolo
 URS Binangonan

Tel. 8539-9930 to 31
 Tel. 8539-9932 to 34
 Tel. 8539-9935 to 37

URS Cainta
 URS Cardona
 URS Morong

Tel. 8539-9938 to 39
 Tel. 8539-9940 to 41
 Tel. 8539-9950 to 56

URS Pila
 URS Rodriguez
 URS Taytay

Tel. 8539-9942 to 44
 Tel. 8539-9945 to 47
 Tel. 8539-9946 to 49



Republic of the Philippines
UNIVERSITY OF RIZAL SYSTEM
 Province of Rizal
www.urs.edu.ph



Email Address: ursmain@urs.edu.ph iurs.opmorong@gmail.com
 Main Campus: URS Tanay Tel. (02) 8401-4900, 8401-4910, 8401-4911; 8539-9957 to 58

Office of the Dean - College of Computer Studies, URS Binangonan
 Tel. No. (02) 8539-9935 loc. 305 Email Address: deancccbin@urs.edu.ph

Date: September 13, 2022

Ms. Diosa Salvador

Binangonan Campus Nurse
 Health Office
 University of Rizal System – Binangonan Campus
 Manila E Rd, Binangonan, 1940 Rizal

Dear Ms. Salvador,

Peace greetings!

The undersigned are currently enrolled in the Capstone Project, which requires a final paper to complete a degree of Bachelor of Science in Information System at the University of Rizal System Binangonan, and we are in the process of writing our proposal entitled **Web-Based Query System for University Of Rizal System – Binangonan Campus.**

In this regard, we are writing to request permission to answer a questionnaire in behalf of the URSB Health Office for us to gather necessary data regarding the products and services that you offer, as well as on different transactions/operations handled in your office that might be useful to our project.

Your consideration and approval to conduct this project will be greatly appreciated.

Thank you and more power to your institution.

Yours,

Mariella B. Buque
 Jayed Andrei V. Anore
 Carl Kian C. Balat
 Rheabelle V. Capayas
 Project Team

Noted:

JOYCE LYN M. ABAOAG, MSME
 Subject Instructor

JOY SG. CRUZ, PhD (Cand.)
 College Dean

Nurturing Tomorrow's Nobles

URS Angono	Tel. 8539-9938 to 31	URS Calaca	Tel. 8539-9938 to 39	URS Pila	Tel. 8539-9942 to 44
URS Antipolo	Tel. 8539-9932 to 34	URS Cardona	Tel. 8539-9940 to 41	URS Rodriguez	Tel. 8539-9945 to 47
URS Binangonan	Tel. 8539-9935 to 37	URS Morong	Tel. 8539-9950 to 56	URS Taytay	Tel. 8539-9948 to 49



Date: September 13, 2022

Mr. Aristotle C. Mayorca

Admission Officer and ID Production

Admission Office

University of Rizal System – Binangonan Campus

Manila E Rd, Binangonan, 1940 Rizal.

Dear Mr. Mayorca,

Peace greetings!

The undersigned are currently enrolled in the Capstone Project, which requires a final paper to complete a degree of Bachelor of Science in Information System at the University of Rizal System Binangonan, and we are in the process of writing our proposal entitled **Web-Based Query System for University Of Rizal System – Binangonan Campus**.

In this regard, we are writing to request permission to answer a questionnaire in behalf of the URSB Admission Office for us to gather necessary data regarding the products and services that you offer, as well as on different transactions/operations handled in your office that might be useful to our project.

Your consideration and approval to conduct this project will be greatly appreciated.

Thank you and more power to your institution.

Yours,

Mariella B. Buque

Jayed Andrei V. Anore

Carl Kian C. Balias

Rheabelle V. Capayas

Project Team

Noted:

JOYCE LYN M. ABAOAG, MSME

Subject Instructor

JOY SG. CRUZ, PhD (Cand.)

College Dean

Nurturing Tomorrow's Noblest



Office of the Dean - College of Computer Studies, URS Binangonan
 Tel. No. (02) 8539-9935 loc. 305 Email Address: deancscbin@urs.edu.ph

Date: September 13, 2022

Ms. Bernadette R. Francisco
 Guidance Counselor
 Guidance Office
 University of Rizal System – Binangonan Campus
 Manila E Rd, Binangonan, 1940 Rizal

Dear Ms. Francisco,

Peace greetings!

The undersigned are currently enrolled in the Capstone Project, which requires a final paper to complete a degree of Bachelor of Science in Information System at the University of Rizal System Binangonan, and we are in the process of writing our proposal entitled **Web-Based Query System for University Of Rizal System – Binangonan Campus**.

In this regard, we are writing to request permission to answer a questionnaire in behalf of the URSB Guidance Office for us to gather necessary data regarding the products and services that you offer, as well as on different transactions/operations handled in your office that might be useful to our project.

Your consideration and approval to conduct this project will be greatly appreciated.

Thank you and more power to your institution.

Yours,
Mariella B. Buque

Jayed Andrei V. Anore

Carl Kian C. Balat

Rheabelle V. Capayas

 Project Team

Noted:
JOYCE LYN M. ABAOAG, MSME
 Subject Instructor

JOY SG. CRUZ, PhD (Cand.)
 College Dean

Nurturing Tomorrow's Nobles

URS Angono	Tel. 8539-9930 to 31	URS Calaca	Tel. 8539-9938 to 39	URS Pilia	Tel. 8539-9942 to 44
URS Antipolo	Tel. 8539-9932 to 34	URS Cardona	Tel. 8539-9948 to 41	URS Rodriguez	Tel. 8539-9945 to 47
URS Binangonan	Tel. 8539-9935 to 37	URS Mariveg	Tel. 8539-9950 to 56	URS Taytay	Tel. 8539-9948 to 49



Email Address: uremain@urs.edu.ph /urs.opmorong@gmail.com
 Main Campus: URS Tanay Tel. (02) 8401-4900; 8401-4910; 8401-4911; 8539-9957 to 58

Office of the Dean - College of Computer Studies, URS Binangonan
 Tel. No. (02) 8539-9935 loc. 305 Email Address: deancscsbin@urs.edu.ph

Date: September 13, 2022

Dr. Florice V. Ulat

In-charge, OJT and Placement

OJT and Placement Office

University of Rizal System – Binangonan Campus

Manila E Rd, Binangonan, 1940 Rizal

Dear Ms. Ulat,

Peace greetings!

The undersigned are currently enrolled in the Capstone Project, which requires a final paper to complete a degree of Bachelor of Science in Information System at the University of Rizal System Binangonan, and we are in the process of writing our proposal entitled **Web-Based Query System for University Of Rizal System – Binangonan Campus.**

In this regard, we are writing to request permission to answer a questionnaire in behalf of the URSB OJT and Placement Office for us to gather necessary data regarding the products and services that you offer, as well as on different transactions/operations handled in your office that might be useful to our project.

Your consideration and approval to conduct this project will be greatly appreciated.

Thank you and more power to your institution.

Yours,

Mariella B. Buque

Jayed Andrei V. Anore

Carl Kian C. Balias

Rheabelle V. Capayas

Project Team

Noted:

JOYCE LYN M. ABAOAG, MSME

Subject Instructor

JOY SG. CRUZ, PhD (Cand.)

College Dean

Nurturing Tomorrow's Nobles

URS Angono
 URS Antipolo
 URS Binangonan

Tel. 8539-9930 to 31
 Tel. 8539-9932 to 34
 Tel. 8539-9935 to 37

URS Calaca
 URS Cabuyao
 URS Marung

Tel. 8539-9938 to 29
 Tel. 8539-9948 to 41
 Tel. 8539-9950 to 56

URS Pila
 URS Rodriguez
 URS Taytay

Tel. 8539-9942 to 44
 Tel. 8539-9945 to 47
 Tel. 8539-9948 to 49



Republic of the Philippines
UNIVERSITY OF RIZAL SYSTEM
 Province of Rizal
www.urs.edu.ph



Email Address: ursmain@urs.edu.ph urs.opmorong@gmail.com
 Main Campus: URS Tanay Tel. (02) 8401-4900; 8401-4910; 8401-4911; 8539-9957 to 58

Office of the Dean - College of Computer Studies, URS Binangonan
 Tel. No. (02) 8539-9935 loc. 305 Email Address: deanccsbin@urs.edu.ph

Date: September 13, 2022

Prof. Baby Eunice M. Cabaltera

In-charge, Scholarship and Financial Assistance
 Scholarship and Finance Assistance Office
 University of Rizal System – Binangonan Campus
 Manila E Rd, Binangonan, 1940 Rizal

Dear Ms. Cabaltera,

Peace greetings!

The undersigned are currently enrolled in the Capstone Project, which requires a final paper to complete a degree of Bachelor of Science in Information System at the University of Rizal System Binangonan, and we are in the process of writing our proposal entitled **Web-Based Query System for University Of Rizal System – Binangonan Campus.**

In this regard, we are writing to request permission to answer a questionnaire in behalf of the URSB Scholarship and Finance Assistance Office for us to gather necessary data regarding the products and services that you offer, as well as on different transactions/operations handled in your office that might be useful to our project.

Your consideration and approval to conduct this project will be greatly appreciated.

Thank you and more power to your institution.

Yours,

Mariella B. Buque

Jayed Andrei V. Anore

Carl Kian C. Balat

Rheabelle V. Capayas

Project Team

Noted:

JOYCE LYN M. ABAOAG, MSME

Subject Instructor

JOY SG. CRUZ, PhD (Cand.)
 College Dean

Nurturing Tomorrow's Nobles

URS Angono	Tel. 8539-9930 to 31	URS Calaca	Tel. 8539-9938 to 39	URS Pililla	Tel. 8539-9942 to 44
URS Antipolo	Tel. 8539-9932 to 34	URS Carmona	Tel. 8539-9940 to 41	URS Rodriguez	Tel. 8539-9945 to 47
URS Binangonan	Tel. 8539-9935 to 37	URS Morong	Tel. 8539-9950 to 56	URS Taytay	Tel. 8539-9948 to 49

Appendix E

Letter of Acceptance of the Adviser and Panel



Republic of the Philippines
UNIVERSITY OF RIZAL SYSTEM
 Province of Rizal
www.urs.edu.ph



Email Address: ursmain@urs.edu.ph / opmorong@gmail.com
 Main Campus: URS Tanay Tel. (02) 8401-4900; 8401-4910; 8401-4911; 8539-9957 to 58

College of Computer Studies - URS Binangonan

Date: November 3, 2022
PROF. ARISTOTLE C. MAYORCA, MSIT
 Project Adviser
 University of Rizal System Binangonan Campus

Dear Sir:

In consideration of your qualifications in the field of research, the College Research Council represented by the undersigned, upon recommendations of Research Professor has approved your appointment as Project Adviser.

The following are the responsibilities of the project adviser:

- Meets the team regularly (as per scheduled, NOTE: the team must seek proper appointment) to answer questions and help resolve issues and conflicts.
- Points out errors in the development work, in the analysis, or in the documentation. The adviser must remind the Proponents to do their work properly.
- Reviews thoroughly all deliverables at every stage of the Capstone Project, to ensure that they meet the college standards.

The students who shall be under your scrutiny include:

Names	Signature	Course
MARIELLA B. BUQUE		BSIS
JAYED ANDREI V. ANORE		BSIS
CARL KIAN C. BALIAT		BSIS
RHEABELLE V. CAPAYAS		BSIS

This project proposal is entitled Web-Based Query System for University of Rizal System – Binangonan Campus.

Thank you for your usual support to the research program/s of the College.

Very truly yours,

JOYCE LYN M. ABOAOAG, MSME
 Research Instructor

Conformed:

ARISTOTLE C. MAYORCA, MSIT
 Project Adviser

Nurturing Tomorrow's Noblest

URS Angono	Tel. 8539-9930 to 31	URS Calinta	Tel. 8539-9938 to 39	URS Pillila	Tel. 8539-9942 to 44
URS Antipolo	Tel. 8539-9932 to 34	URS Cardona	Tel. 8539-9940 to 41	URS Rodriguez	Tel. 8539-9945 to 47
URS Binangonan	Tel. 8539-9935 to 37	URS Morong	Tel. 8539-9950 to 56	URS Taytay	Tel. 8539-9948 to 49



Republic of the Philippines
UNIVERSITY OF RIZAL SYSTEM
 Province of Rizal
www.urs.edu.ph



Email Address: ursmain@urs.edu.ph / urs.opmorong@gmail.com
 Main Campus: URS Tanay Tel. (02) 8401-4900; 8401-4910; 8401-4911; 8539-9957 to 58

College of Computer Studies - URS Binangonan

Date: January 9, 2023
PROF. YVES XAVIER S. CANDELARIA, MSIT
 Panel Chairman
 University of Rizal System Binangonan Campus

Dear Sir:

In consideration of your qualifications in the field of research, the College Research Council represented by the undersigned, upon recommendations of Research Professor has approved your appointment as Panel Chairman.

The following are the responsibilities of the Chairman:

- Brief the Proponents about the Project Proposal and Oral Defense program during the actual Project Proposal and Oral Defense.
- Issue the verdict. The verdict is a unanimous decision among the three members of the Capstone Project Proposal and Oral Defense panel. Once issued, it is final and irrevocable.

The students who shall be under your scrutiny include:

Names		Course
MARIELLA B. BUQUE		BSIS
JAYED ANDREI V. ANORE		BSIS
CARL KIAN C. BALIAT		BSIS
RHEABELLE V. CAPAYAS		BSIS

This project proposal is entitled Web-Based Query System for University of Rizal System – Binangonan Campus.

Thank you for your usual support to the research program/s of the College.

Very truly yours,

JOYCE LYN M. ABAOAG, MSME
 Research Instructor

Conformed:

YVES XAVIER S. CANDELARIA, MSIT
 Panel Chairman

Nurturing Tomorrow's Noblest

URS Angono	Tel. 8539-9930 to 31	URS Cainta	Tel. 8539-9938 to 39	URS Pililla	Tel. 8539-9942 to 44
URS Antipolo	Tel. 8539-9932 to 34	URS Cardona	Tel. 8539-9940 to 41	URS Rodriguez	Tel. 8539-9945 to 47
URS Binangonan	Tel. 8539-9935 to 37	URS Morong	Tel. 8539-9950 to 56	URS Taytay	Tel. 8539-9948 to 49



Republic of the Philippines
UNIVERSITY OF RIZAL SYSTEM
 Province of Rizal
www.urs.edu.ph



Email Address: ursmain@urs.edu.ph / urs.opmorong@gmail.com
 Main Campus: URS Tanay Tel. (02) 8401-4900; 8401-4910; 8401-4911; 8539-9957 to 56

College of Computer Studies - URS Binangonan

Date: January 9, 2023
 PROF. ALKING P. SUNGA, MSIT
 Panel Member
 University of Rizal System Binangonan Campus

Dear Sir:

In consideration of your qualifications in the field of research, the College Research Council represented by the undersigned, upon recommendations of Research Professor has approved your appointment as Panel Member.

The following are the responsibilities of the Panel Member:

- Validate the endorsement of the adviser. The panel serves as "Internal Auditors", putting some form of check and control on the kinds of Capstone Projects being approved by the College.
- Evaluate the deliverables.
- Recommend a verdict.
- Listen and consider the request of the adviser and/or the Proponents.
- Nominate a Capstone Project for the Outstanding Capstone Project Award.

The students who shall be under your scrutiny include:

<i>Names</i>	<i>Handwritten Signature</i>	<i>Course</i>
MARIELLA B. BUQUE		BSIS
JAYED ANDREI V. ANORE		BSIS
CARL KIAN C. BALIAT		BSIS
RHEABELLE V. CAPAYAS		BSIS

This project proposal is entitled Web-Based Query System for University of Rizal System – Binangonan Campus.

Thank you for your usual support to the research program/s of the College.

Very truly yours,

Conformed:

JOYCE LYN M. ABAOAG, MSME
 Research Instructor

ALKING P. SUNGA, MSIT
 Panel Member

Nurturing Tomorrow's Noblest

URS Angono	Tel. 8539-9930 to 31	URS Cainta	Tel. 8539-9938 to 39	URS Pillila	Tel. 8539-9942 to 44
URS Antipolo	Tel. 8539-9932 to 34	URS Cardona	Tel. 8539-9940 to 41	URS Rodriguez	Tel. 8539-9945 to 47
URS Binangonan	Tel. 8539-9935 to 37	URS Morong	Tel. 8539-9950 to 56	URS Taytay	Tel. 8539-9948 to 49



Republic of the Philippines
UNIVERSITY OF RIZAL SYSTEM
 Province of Rizal
www.urs.edu.ph



Email Address: ursmain@urs.edu.ph / urs.opmorong@gmail.com
 Main Campus: URS Tanay Tel. (02) 8401-4900; 8401-4910; 8401-4911; 8539-9957 to 58

College of Computer Studies - URS Binangonan

Date: January 9, 2023
PROF. NEIL JOHN P. ALBITO, MM
 Panel Member
 University of Rizal System Binangonan Campus

Dear Sir:

In consideration of your qualifications in the field of research, the College Research Council represented by the undersigned, upon recommendations of Research Professor has approved your appointment as Panel Member.

The following are the responsibilities of the Panel Member:

- Validate the endorsement of the adviser. The panel serves as "Internal Auditors", putting some form of check and control on the kinds of Capstone Projects being approved by the College.
- Evaluate the deliverables.
- Recommend a verdict.
- Listen and consider the request of the adviser and/or the Proponents.
- Nominate a Capstone Project for the Outstanding Capstone Project Award.

The students who shall be under your scrutiny include:

<i>Names</i>	<i>Course</i>
MARIELLA B. BUQUE	BSIS
JAYED ANDREI V. ANORE	BSIS
CARL KIAN C. BALIAT	BSIS
RHEABELLE V. CAPAYAS	BSIS

This project proposal is entitled Web-Based Query System for University of Rizal System – Binangonan Campus.

Thank you for your usual support to the research program/s of the College.

Very truly yours,

Conformed:

JOYCE LYN M. ABAOAG, MSME
 Research Instructor

NEIL JOHN P. ALBITO, MM
 Panel Member

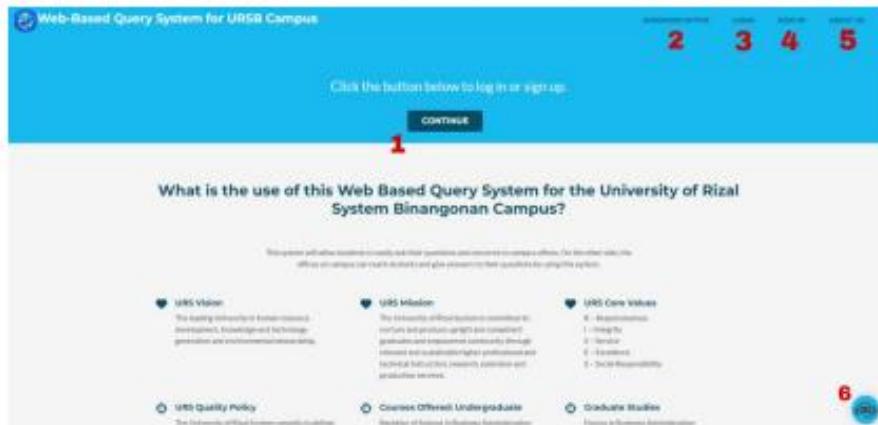
Nurturing Tomorrow's Noblest

URS Angono	Tel. 8539-9930 to 31	URS Calinta	Tel. 8539-9938 to 39	URS Pillila	Tel. 8539-9942 to 44
URS Antipolo	Tel. 8539-9932 to 34	URS Cardena	Tel. 8539-9940 to 41	URS Rodriguez	Tel. 8539-9945 to 47
URS Binangonan	Tel. 8539-9935 to 37	URS Marong	Tel. 8539-9950 to 56	URS Taytay	Tel. 8539-9948 to 49

Appendix G

Quality Assurance Test Plan

Quality Assurance Test Plan



Test Case Code:		Test No. 1	
Description:		Verify that the following objects and fields are present and functioning on the landing page of the system.	
Function:		Landing Page	
Item No.	Step	Expected Result	Actual Result
1	While the cursor point is on the button, click the continue button.	The login page will load or appear.	Passed
2	While the cursor point is on the navigation section, click the admission office label.	The admission office for guest accounts will load or appear.	Passed
3	While the cursor point is on the navigation section, click the login label.	The login page will load or appear.	Passed
4	While the cursor point is on the navigation section, click the sign up label.	The registration/sign up page will load or appear.	Passed
5	While the cursor point is on the navigation section, click the about us label.	The interface will scroll down to the details below the organizational chart and about us.	Passed
6	While the cursor point is on the icon below, Click the chatbot icon.	A message box will appear telling the student to direct them to the chatbot of the admission office once the Click Here button is clicked.	Passed
7	Having live chat for admission office on the navigation bar on the landing page.	Live chat for admission office is accessible to the public.	Failed



Test Case Code:	Test No. 2		
Description:	Verify that the following objects and fields are present and functioning on the landing page of the system.		
Function:	Landing Page		
Item No.	Step	Expected Result	Actual Result
1	While the cursor point is on the button, click the click here button.	The admission office chatbot page will load or appear.	Passed
2	While the cursor point is on the icon, click the exit icon to remove the message box from the screen.	You can choose to either login or sign up again on the landing page.	Passed



Test Case Code:	Test No. 3		
Description:	Verify that the following objects and fields are present and functioning on the student login page of the system.		
Function:	Login Page Student.		
Item No.	Step	Expected Result	Actual Result
1	Input alphanumeric character in the student no.	Should accept alphanumeric Character.	Passed
	Incorrect student no in the student no textbox.	A label red text message will show telling incorrect student no.	Passed
2	Input alphanumeric character in the password.	Should accept alphanumeric Character.	Passed
	Incorrect password in the password textbox.	A label red text message will show telling incorrect password.	Passed
3	While the cursor point is on the button, click the no account yet button.	The registration/sign up page will load or appear.	Passed
4	While the cursor point is on the button, click the continue with guests account button.	The admission office guest page will load or appear.	Passed
5	While the cursor point is on the button, click the login as a admin button.	The admin login page will load or appear.	Passed
6	While the cursor point is on the button, click the login button.	The student homepage will load or appear.	Passed

Web-Based Query System for URMS

1. User Name
2. Password
3. Student ID Number
4. Department Name
5. Hostel/Campus Name
6. Hostel/Campus Name
7. I'm not a robot
User Logins are mandatory for course enrollment purpose. Please remember and avoid using case sensitive while logging in.

Test Case Code:		Test No. 4	
Description:		Verify that the following objects and fields are present and functioning on the student sign up page of the system.	
Function:		Sign up Page Student.	
Item No.	Step	Expected Result	Actual Result
1	Input alphanumeric character in the email address.	Should accept alphanumeric Character.	Passed
2	Input alphanumeric character in the student no.	Should accept alphanumeric Character.	Passed
3	Input alphanumeric character in the student first name.	Should accept alphanumeric Character.	Passed
4	Input alphanumeric character in the student middle name.	Should accept alphanumeric Character.	Passed
5	Input alphanumeric character in the student last name.	Should accept alphanumeric Character.	Passed
6	Input alphanumeric character in the password.	Should accept alphanumeric Character.	Passed
7	While the cursor point is on the button, click the choose file button.	You can now attach your certificate of registration.	Passed
8	While the cursor point is on the button, click the submit button.	A message label will appear below to notify you that your registration has been submitted.	Passed
9	While the cursor point is on the button, click the sign up as admin button.	The admin sign up page will load or appear.	Passed
10	While the cursor point is on the button, click the back to login page button.	The student login page will load or appear.	Passed
11	After clicking the submit button.	All data will be save on the database.	Failed

Web-Based Query System for URSSB

Email Address: **1**
Campus Office: **2**
Password: **3**

Login **4**
No account yet? **5**
Login as a Student

Test Case Code:	Test No. 5		
Description:	Verify that the following objects and fields are present and functioning on the Admin login page of the system.		
Function:	Login Page Admin		
Item No.	Step	Expected Result	Actual Result
1	Input alphanumeric character in the email address.	Should accept alphanumeric Character.	Passed
2	Input alphanumeric character in the password.	Should accept alphanumeric Character.	Passed
3	While the cursor point is on the button, click the login button.	The desired homepage for admins will load or appear.	Passed
4	While the cursor point is on the button, click the no account yet button.	The registration/sign up page will load or appear.	Passed
5	While the cursor point is on the button, click the login as a student button.	The student login page will load or appear.	Passed

Web-Based Query System for URSSB

Email Address: **1**
Campus Office: **2**
Password: **3**

Family ID Number: **4**

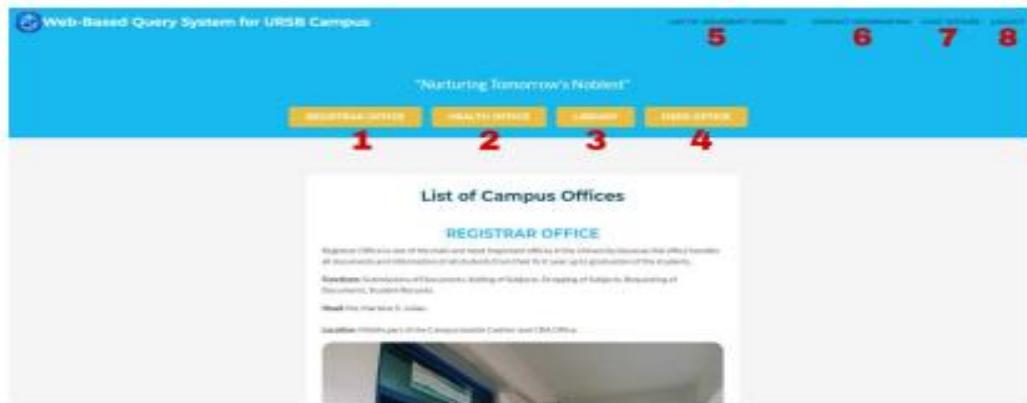
Sign Up process may take up-to 24 hours verifying your account. Please wait patiently and always check your email account.

Logout **5**
Back to Login Page

Test Case Code:	Test No. 6		
Description:	Verify that the following objects and fields are present and functioning on the admin sign up page of the system.		
Function:	Sign up Page Admin		
Item No.	Step	Expected Result	Actual Result
1	Input alphanumeric character in the email address.	Should accept alphanumeric Character.	Passed
2	Input alphanumeric character in the campus office.	Should accept alphanumeric Character.	Passed
3	Input alphanumeric character in the password.	Should accept alphanumeric Character.	Passed
4	While the cursor point is on the button, click the choose file button.	You can now attach your copy of Faculty ID.	Passed
5	While the cursor point is on the button, click the submit button.	A message label will appear below to notify you that your registration has been submitted.	Passed
6	While the cursor point is on the button, click the back to login page button.	The admin login page will load or appear.	Passed
7	After clicking the submit button.	All data will be save on the database.	Failed

Test Case Code:	Test No. 7		
Description:	Verify that the following objects and fields are present and functioning on the admission office guest account page of the system.		
Function:	Admission office guests account page.		
Item No.	Step	Expected Result	Actual Result
1	While the cursor point is on the navigation section, click the about us label.	The interface will scroll down to the details below the organizational chart and about us.	Passed
2	While the cursor point is on the navigation section, click the highlights label.	The interface will scroll down to the details below the announcements and latest news about admission office.	Passed

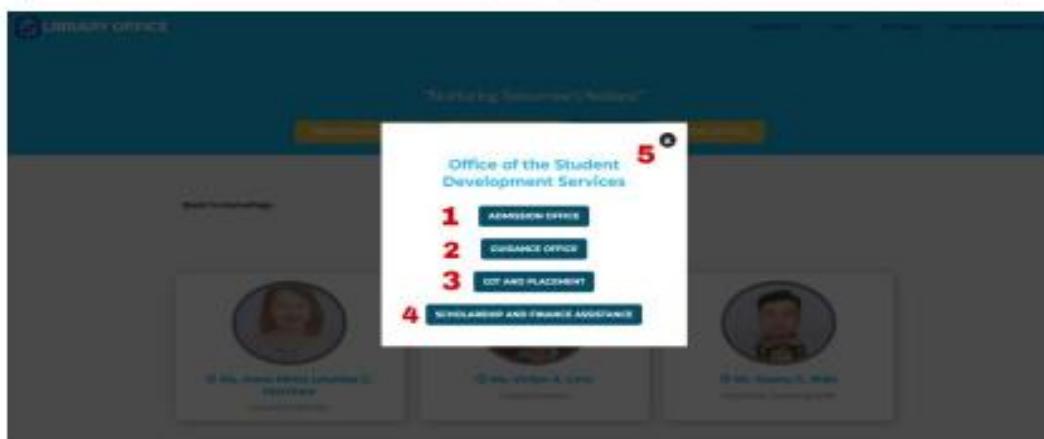
3	While the cursor point is on the navigation section, click the chat label.	The chatbot page for admission office will load or appear.	Passed
4	While the cursor point is on the navigation section, click the contact information label.	The interface will scroll down to the details below the contact information, feedback links and other social media pages links.	Passed



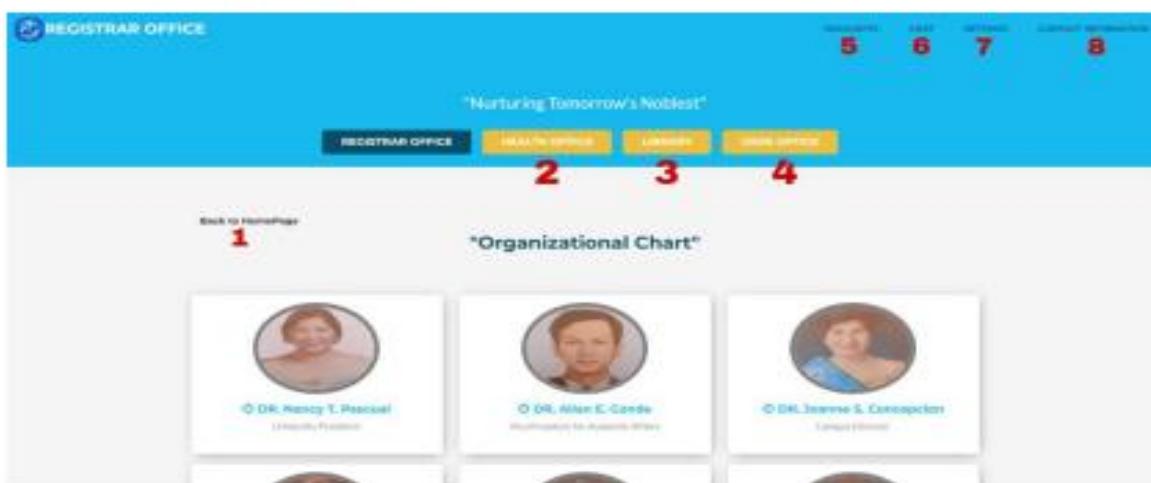
Test Case Code:	Test No. 8		
Description:	Verify that the following objects and fields are present and functioning on the Student home page of the system.		
Function:	Student home page.		
Item No.	Step	Expected Result	Actual Result
1	While the cursor point is on the button, click the registrar office button.	The Registrar office page will load or appear.	Passed
2	While the cursor point is on the button, click the health office button.	The Health office page will load or appear.	Passed
3	While the cursor point is on the button, click the library office button.	The Library office page will load or appear.	Passed
4	While the cursor point is on the button, click the OSDS office button.	A message box will appear showing the buttons of Admission office, Guidance office, OJT and Placement and Scholarship and Finance Assistance. Once the OSDS office button is clicked.	Passed
5	While the cursor point is on the navigation section, click the list of university offices label.	The interface will scroll down to the details below the list of seven offices in the campus with informations in each offices.	Passed
6	While the cursor point is on the navigation section, click the contact information label.	The interface will scroll down to the details below the contact information, feedback links and other social media pages links.	Passed
7	Click the chat offices on the navigation section.	Live chat page will load or appear.	Passed
8	Click the logout button.	Landing Page will load or appear.	Passed



Test Case Code:	Test No. 9		
Description:	Verify that the following objects and fields are present and functioning on the contact information section of the system.		
Function:	Contact Information section.		
Item No.	Step	Expected Result	Actual Result
1	While the cursor point is on the hyperlink, click the click here hyperlink.	The feedback form on Google Forms will load or appear.	Passed
2	While the cursor point is on the image icon, click the facebook icon.	University of Rizal System Binangongan Campus official page will load or appear.	Passed
3	While the cursor point is on the image icon, click the middle icon.	University of Rizal System Binangongan Campus OSDS official page will load or appear.	Passed
4	While the cursor point is on the image icon, click the envelope icon.	University of Rizal System Binangongan Campus supreme student government official page will load or appear.	Passed



Test Case Code:	Test No. 10		
Description:	Verify that the following objects and fields are present and functioning on the OSDS office message box of the system.		
Function:	OSDS office message box.		
Item No.	Step	Expected Result	Actual Result
1	Click the admission office button.	Admission office will load or appear.	Passed
2	Click the guidance office button.	Guidance office page will load or appear.	Passed
3	Click the OJT and Placement office button.	OJT and Placement office will load or appear.	Passed
4	Click the scholarship and finance assistance office button.	Scholarship and Finance Assistance office will load or appear.	Passed
5	While the cursor point is on the icon, click the exit icon to remove the message box from the screen.	You can browse again in Registrar office.	Passed



Test Case Code:	Test No. 11		
Description:	Verify that the following objects and fields are present and functioning on the Seven office of the system.		
Function:	Seven Offices Home Page.		
Item No.	Step	Expected Result	Actual Result
1	Click the back to homepage button.	Student homepage will load or appear.	Passed
2	Click the health office button.	Health office page will load or appear.	Passed

3	Click the library office button.	Library office will load or appear.	Passed
4	Click the OSDS office button.	A message box will popup containing admission office, guidance office, ojt and placement office and scholarship and finance assistance office buttons.	Passed
5	While the cursor point is on the navigation section, click the highlights label.	The interface will scroll down to the details below the announcements and latest news about each offices.	Passed
6	While the cursor point is on the navigation section, click the chat label.	The chatbot page for registrar office will load or appear.	Passed
7	While the cursor point is on the navigation section, click the settings label.	The interface will scroll down to student settings.	Passed
8	While the cursor point is on the navigation section, click the contact information label.	The interface will scroll down to the details below the contact information, feedback links and other social media pages links.	Passed

**Student Information
Settings**

Profile

Email Address:
 1

Student ID:
 2

Student First Name:
 3

Student Middle Name:
 4

Student Last Name:
 5

Address:
 6

Contact #:
 7

8

Good Day Students!!! If you have any concern and questions, just go to the feedback section at the lower part of the website, you can [click here](#). Thank you for your support!

9

GO BACK TO HOMEPAGE! **10**

SIGN OUT **11**

Test Case Code:	Test No. 12		
Description:	Verify that the following objects and fields are present and functioning on the Student Information Settings of the system.		
Function:	Student Information Settings.		
Item No.	Step	Expected Result	Actual Result
1	Input email address in the textbox.	Should accept alphanumeric Character.	Passed
2	Student no. is fixed.	Cannot edit or type in the textbox.	Passed
3	Input student first name in the textbox.	Should accept alphanumeric Character.	Passed
4	Input student middle name in the textbox.	Should accept alphanumeric Character.	Passed
5	Input student last name in the textbox.	Should accept alphanumeric Character.	Passed
6	Input address in the textbox.	Should accept alphanumeric Character.	Passed
7	Input contact number in the textbox.	Should accept alphanumeric Character.	Passed
8	Click the save changes button.	Details will be sent to the database, and the page will reload.	Passed
9	While the cursor point is on the hyperlink, click the click here link.	The feedback form on Google Forms will load or appear.	Passed
10	Click the go back to homepage button.	Student homepage will load or appear.	Passed
11	Click the sign out button.	Login page will load or appear.	Passed
12	After clicking the save changes button,	Student Information is displayed.	Failed



Test Case Code:	Test No. 13		
Description:	Verify that the following objects and fields are present and functioning on the Seven Offices Chatbot of the system.		
Function:	Seven Offices Chatbot Page.		
Item No.	Step	Expected Result	Actual Result
1	Input messages in the textbox.	Should accept alphanumeric Character.	Passed
2	Click the send button.	The messages you type in the textbox will show in the chat box.	Passed
3	After clicking the send button.	In the chat box all messages of student will show or appear.	Passed
	After the student messages show in the chat box.	Pre-existing answers will be shown from the database in the chat box.	Passed
4	While the cursor point is on the live chat button, Click the live chat button.	Live chat page will load or appear.	Passed
5	While the cursor point is on the exit chat button, click the exit chat button.	A message box will appear telling the student to direct them to the feedback google forms once the exit chat button is clicked.	Passed
6	Click the question label.	A pre-existing answer will be shown below the question.	Passed
7	Click the question label.	A pre-existing answer will be shown below the question.	Passed
8	Click the question label.	A pre-existing answer will be shown below the question.	Passed
9	While the cursor point is on the chatbot icon, click the chatbot icon.	A message box will appear telling the student to direct them to the feedback google forms once the chatbot icon is clicked.	Passed



Test Case Code:	Test No. 14		
Description:	Verify that the following objects and fields are present and functioning on the Popup message box in the Chatbot Page in the seven offices of the system.		
Function:	Popup message box in the Chatbot Page in the seven offices.		
Item No.	Step	Expected Result	Actual Result
1	While the cursor point is on the click here hyperlink, click the click here link.	The feedback form on Google Forms will load or appear.	Passed
2	While the cursor point is on the icon, click the exit icon to remove the message box from the screen.	You can continue sending messages to the chatbot.	Passed

Web-Based Query System for URSB Campus

Home About Contact Log In

2 3 4 5 6 7 8

Nurturing Tomorrow's Nobles!

1 List of Campus Offices

REGISTRAR OFFICE

Registrar Office is one of the oldest and most important offices in the University because this office handles all documents and information of all students from their first year up to graduation of the institution.

Responsibilities: Submission of Documents, Analysis of Subjects, Dropping of Subjects, Requesting of Documents, Student Appeals.

Head: Mr. Anthony C. Lacier

Location: 4th floor of the Computerized Center and Library

Test Case Code:	Test No. 15		
Description:	Verify that the following objects and fields are present and functioning on the Super admins homepage of the system.		
Function:	Super admins homepage.		
Item No.	Step	Expected Result	Actual Result
1	Click the add campus offices.	A floating form will appear to add details to the homepage.	Passed
2	In the navigation section, click Registrar Office.	Admin Registrar Office will load or appear.	Passed
3	In the navigation section, click Health Office.	Admin Health Office will load or appear.	Passed
4	In the navigation section, click Library Office.	Admin Library Office will load or appear.	Passed

5	In the navigation section, click OSDS Office.	A message box will appear showing the buttons of Admin pages like Admission office, Guidance office, OJT and Placement and Scholarship and Finance Assistance. Once the OSDS office is clicked.	Passed
6	In the navigation section, click FAQs.	A FAQs page containing a list of FAQs in seven offices will load or appear.	Passed
7	Click chat reports.	Chat Reports Page will load or appear.	Passed
8	Click logout button.	Landing Page will load or appear.	Passed
9	After entering the admin homepage.	Super admin should have capability to overview live chat of all offices.	Failed

Test Case Code:	Test No. 16		
Description:	Verify that the following objects and fields are present and functioning on the Admin homepage of the system.		
Function:	Add Campus Office details to the homepage.		
Item No.	Step	Expected Result	Actual Result
1	Click the exit icon.	The form will exit, and you can browse again on the homepage.	Passed
2	Input name of office in the textbox.	Should accept alphanumeric Character.	Passed
3	Input office description in the textbox.	Should accept alphanumeric Character.	Passed
4	Input office functions in the textbox.	Should accept alphanumeric Character.	Passed
5	Input head of office in the textbox.	Should accept alphanumeric Character.	Passed
6	Input location of the office in the textbox.	Should accept alphanumeric Character.	Passed

7	While the cursor point is on the button, click the choose file button.	You can now attach offices related images.	Passed
8	Click the add button.	A message box will appear telling you all the details have been posted on the admin homepage and have been fetched to the student homepage.	Passed
9	Click the close button.	The form will exit, and you can browse again on the homepage.	Passed



Test Case Code:	Test No. 17		
Description:	Verify that the following objects and fields are present and functioning on the Admin homepage of the system.		
Function:	OSDS Office message box.		
Item No.	Step	Expected Result	Actual Result
1	Click the Admission Office button.	Admin Admission Office will load or appear.	Passed
2	Click the Guidance Office button.	Admin Guidance Office will load or appear.	Passed
3	Click the OJT and Placement Office button.	Admin OJT and Placement Office will load or appear.	Passed
4	Click the Scholarship and Finance Assistance office button.	Admin Scholarship and Finance Assistance Office will load or appear.	Passed
5	Click the exit icon.	The form will exit, and you can browse again on the homepage.	Passed

The screenshot shows the Admin - REGISTRAR OFFICE homepage. At the top, there is a navigation bar with links for Home, About Us, Contact Us, and Log Out. Below the navigation bar, there is a banner with the text "Nursing tomorrow's Nobles!" and a row of red numbers from 2 to 6. The main content area features an "Organizational Chart Registrar Office" section with a blue header labeled "1". This section contains six circular profile pictures of staff members with their names below them: Dr. Nancy T. Pastan, Dr. Allan E. Conde, Dr. Joanne S. Concepcion, and three other partially visible profiles. Below this is another section titled "Announcements and Latest News About the Registrar's Office" with a blue header labeled "7". This section displays three news items with dates (April 20, 2023), titles, and small images.

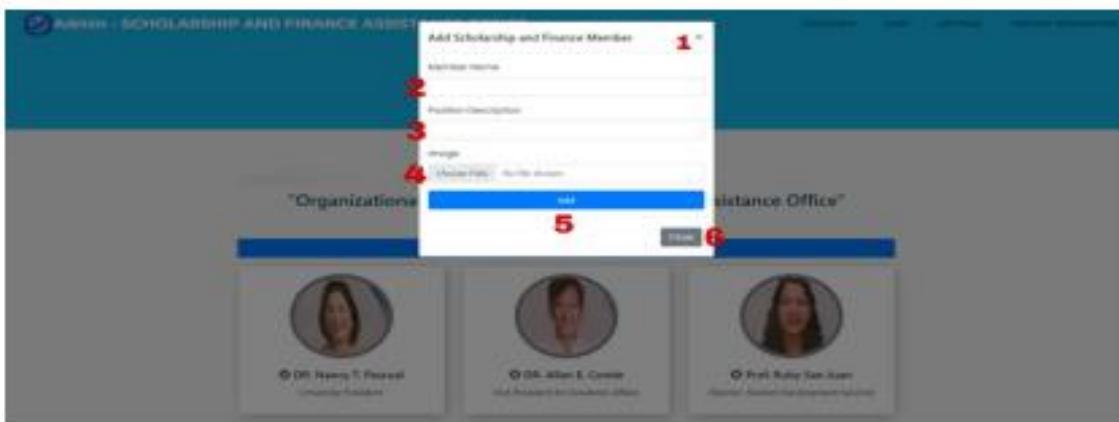
Test Case Code:	Test No. 18		
Description:	Verify that the following objects and fields are present and functioning on the Admin Seven Offices homepage of the system.		
Function:	Admin Seven Offices homepage.		
Item No.	Step	Expected Result	Actual Result
1	Click the add registrar member button.	A form will pop up and have details that you can add, including the name of the member, position in the office, and attachment of an image.	Passed
2	While the cursor point is on the navigation section, click the highlights label.	The interface will scroll down to the details below the announcements and latest news about each Offices.	Passed
3	While the cursor point is on the navigation section, click the chat label.	The chat page for seven offices will load or appear.	Passed

4	While the cursor point is on the navigation section, click the settings label.	The interface will scroll down to admin settings.	Passed
5	In the navigation section, click FAQs.	A FAQs page containing a list of FAQs in seven offices will load or appear.	Passed
6	While the cursor point is on the navigation section, click the contact information label.	The interface will scroll down to the details below the contact information, feedback links and other social media pages links.	Passed
7	Click the add Office Announcement button.	A form will pop up and have details that you can add, including the message and attachment of an image.	Passed

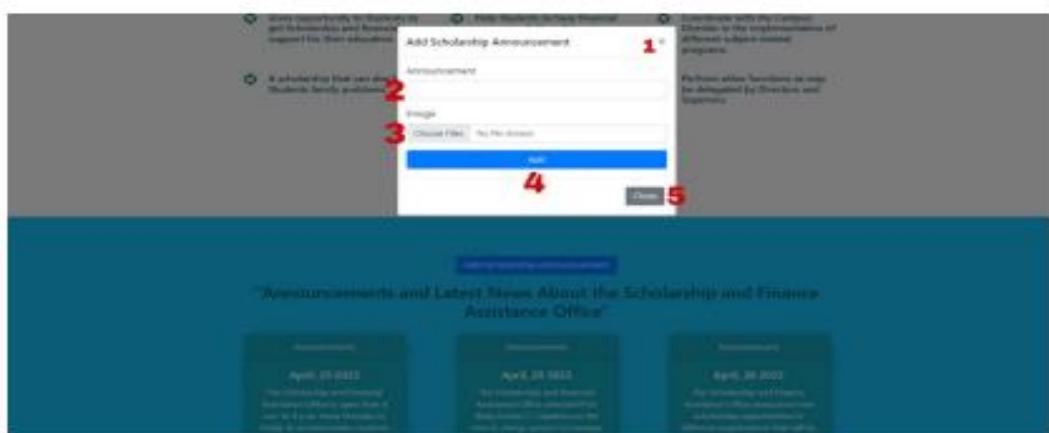


Test Case Code:		Test No. 19	
Description:		Verify that the following objects and fields are present and functioning on the Admin Information Settings of the system.	
Function:		Admin Information Settings.	
Item No.	Step	Expected Result	Actual Result
1	Input email address in the textbox.	Should accept alphanumeric Character.	Passed
2	Input campus office in the textbox.	Should accept alphanumeric Character.	Passed
3	Input admin full name in the textbox.	Should accept alphanumeric Character.	Passed
4	Input contact number in the textbox.	Should accept alphanumeric Character.	Passed
5	Click the save changes button.	Details will be sent to the database, and the page will reload.	Passed

6	While the cursor point is on the hyperlink, click the click here link.	The feedback form on Google Forms will load or appear.	Passed
7	Click the sign out button.	Login page will load or appear.	Passed
8	After clicking the save changes button.	Admin Information is displayed.	Failed



Test Case Code:	Test No. 20		
Description:	Verify that the following objects and fields are present and functioning on the Admin Organizational Chart of the system.		
Function:	Add office members to the organizational chart.		
Item No.	Step	Expected Result	Actual Result
1	Click the exit icon.	The form will exit, and you can browse again on the homepage.	Passed
2	Input member name of office in the textbox.	Should accept alphanumeric Character.	Passed
3	Input position description in the textbox.	Should accept alphanumeric Character.	Passed
4	While the cursor point is on the button, click the choose file button.	You can now attach offices related images.	Passed
5	Click the add button.	A message box will appear telling you all the details have been posted on the admin office homepage and have been fetched to the student homepage.	Passed
6	Click the close button.	The form will exit, and you can browse again on the homepage.	Passed



Test Case Code:	Test No. 21		
Description:	Verify that the following objects and fields are present and functioning on the Admin Announcement of the system.		
Function:	Add office Announcement.		
Item No.	Step	Expected Result	Actual Result
1	Click the exit icon.	The form will exit, and you can browse again on the homepage.	Passed
2	Input announcement message of office in the textbox.	Should accept alphanumeric Character.	Passed
3	While the cursor point is on the button, click the choose file button.	You can now attach offices related images.	Passed
4	Click the add button.	A message box will appear telling you all the details have been posted on the admin office highlights and have been fetched to the student highlights.	Passed
5	Click the close button.	The form will exit, and you can browse again on the homepage.	Passed

Web-Based Query System for URSG Campus

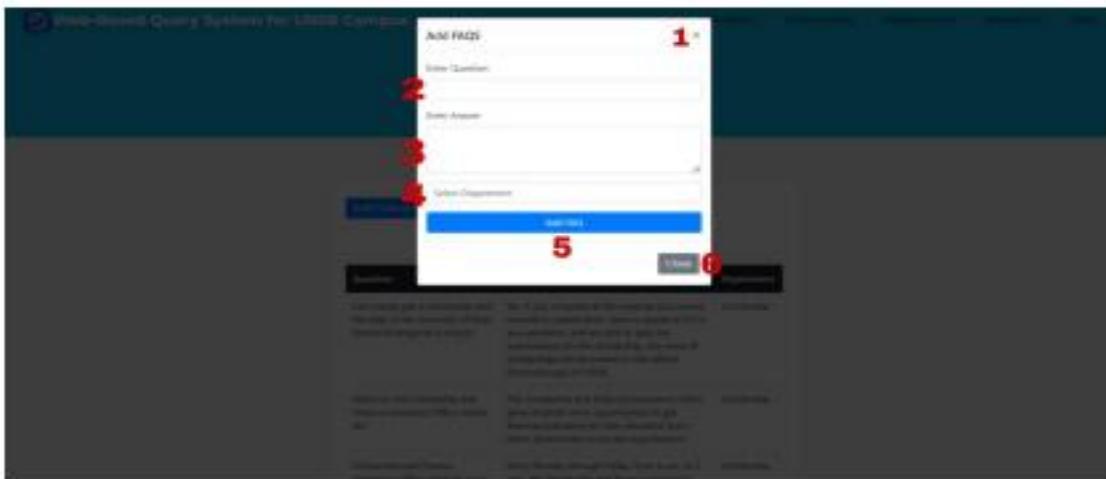
"Nurturing Tomorrow's Nobles!"

1 Add Frequently Asked Questions

List of FAQS

Question	Answer	Department
Can I easily get a scholarship with the help of my university's Scholarship Assistance Office?	The University and Financial Assistance Office provides all the required documents, necessary contact details, their grade on [1] to [any semester], and can able to place the information for the scholarship. Any need of technology will be provided on the official Academic page of URSG.	Scholarship
What can the Scholarship and Finance Assistance Office assist me with?	The University and Financial Assistance Office gives students more opportunities to get financial assistance for their education from other government or private organizations.	Scholarship
Scholarship and Financial Assistance Office schedule daily.	Every Monday through Friday from 9 am to 12 pm, the University and Financial Assistance	Scholarship

Test Case Code:	Test No. 22		
Description:	Verify that the following objects and fields are present and functioning on the Admin FAQs Page of the system.		
Function:	Admin FAQs Page.		
Item No.	Step	Expected Result	Actual Result
1	Click the add frequently asked questions button.	A floating form will appear to add details like questions, answers, and office.	Passed



Test Case Code:	Test No. 23		
Description:	Verify that the following objects and fields are present and functioning on the Admin FAQs Page of the system.		
Function:	Admin add FAQs.		
Item No.	Step	Expected Result	Actual Result
1	Click the exit icon.	The form will exit, and you can browse again on the FAQs page.	Passed
2	Input questions in the textbox.	Should accept alphanumeric Character.	Passed
3	Input answers in the textbox.	Should accept alphanumeric Character.	Passed
4	Select the office you want to fetch the FAQ from.	Should show a list of the seven offices.	Passed
5	Click the add FAQ button.	A message box will appear telling you all the details have been posted on the admin office and have been fetched to the student interface.	Passed
6	Click the close button.	The form will exit, and you can browse again on the FAQs page.	Passed



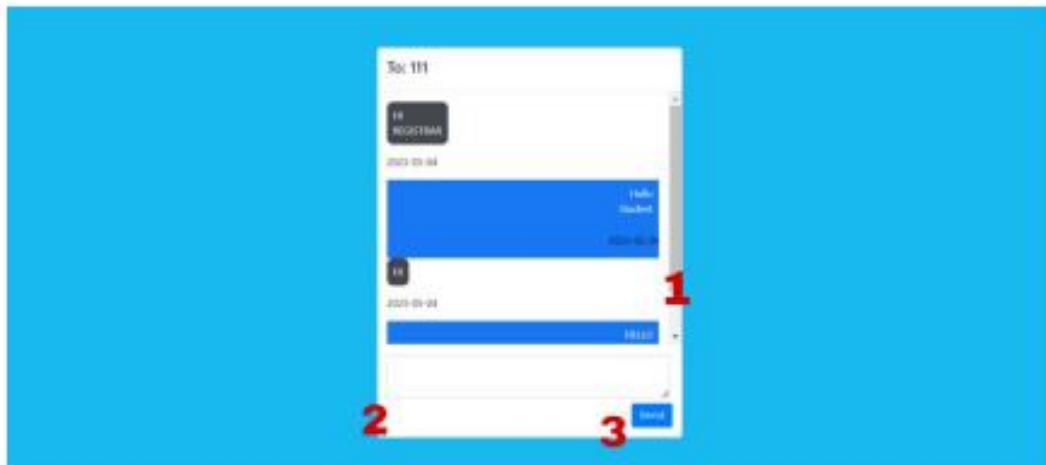
Test Case Code:	Test No. 24		
Description:	Verify that the following objects and fields are present and functioning on the Student Live Chat Page of the system.		
Function:	Student Live Chat Page.		
Item No.	Step	Expected Result	Actual Result
1	Click the logout button.	Redirected to the landing page.	Passed
2	Click Registrar Office label.	Conversation between student and admin will load or appear.	Passed
3	Click Health Office label.	Conversation between student and admin will load or appear.	Passed
4	Click Library Office label.	Conversation between student and admin will load or appear.	Passed
5	Click Admission Office label.	Conversation between student and admin will load or appear.	Passed
6	Click Guidance Office label.	Conversation between student and admin will load or appear.	Passed
7	Click OJT and Placement Office label.	Conversation between student and admin will load or appear.	Passed
8	Click Scholarship and Finance Assistance Office label.	Conversation between student and admin will load or appear.	Passed



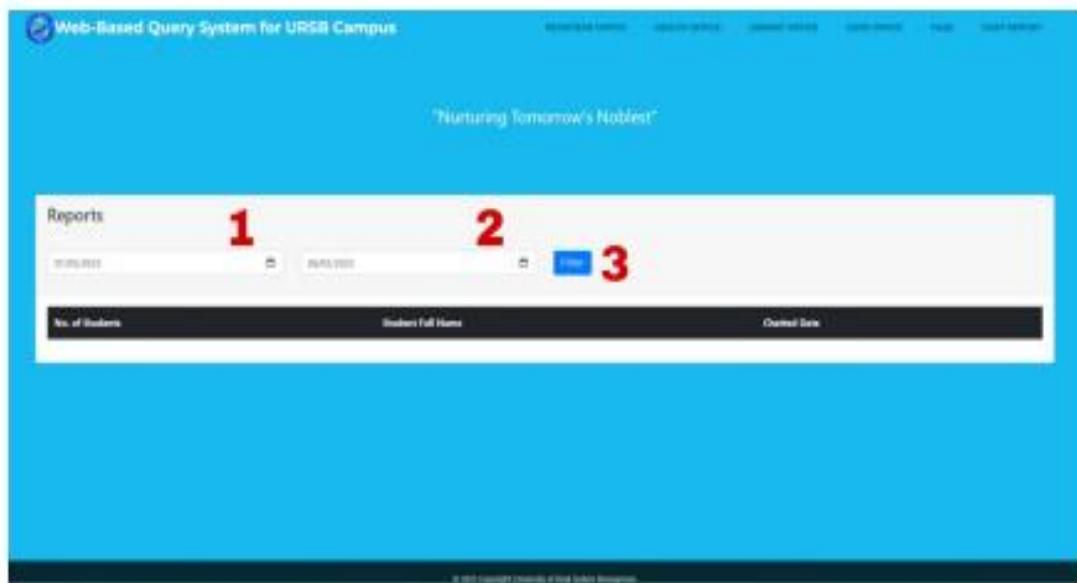
Test Case Code:	Test No. 25		
Description:	Verify that the following objects and fields are present and functioning on the Student Live Chat Page of the system.		
Function:	Student Live Chat Page		
Item No.	Step	Expected Result	Actual Result
1	Click the side hover icon.	You can scroll up or down to messages.	Passed
2	Input questions in the textbox.	Should accept alphanumeric Character.	Passed
3	Click the send button.	The message you input on the textbox will display on the conversation.	Passed



Test Case Code:		Test No. 26	
Description:		Verify that the following objects and fields are present and functioning on the Admin Live Chat Page of the system.	
Function:		Admin Live Chat Page.	
Item No.	Step	Expected Result	Actual Result
1	Click the logout button.	Redirected to the landing page.	Passed
2	Input student last name on the search bar.	Should show the student conversation or messages.	Passed
3	Click the search button.	Should show the student conversation or messages.	Passed
4	Click the Student names labels.	Conversation between admin and student will load or appear.	Passed



Test Case Code:		Test No. 27	
Description:		Verify that the following objects and fields are present and functioning on the Admin Live Chat Page of the system.	
Function:		Admin Live Chat Page.	
Item No.	Step	Expected Result	Actual Result
1	Click the side hover icon.	The form will exit, and you can browse again on the FAQs page.	Passed
2	Input response in the textbox.	Should accept alphanumeric Character.	Passed
3	Click the send button.	The message you input on the textbox will display on the conversation.	Passed



Test Case Code:	Test No. 28		
Description:	Verify that the following objects and fields are present and functioning on the Chat Reports Page of the system.		
Function:	Chat Reports Page.		
Item No.	Step	Expected Result	Actual Result
1	Click the calendar icon.	Should show calendar to select started date.	Passed
2	Click the calendar icon.	Should show calendar to select end date.	Passed
3	Click the filter button.	Chat Reports will appear in list format below.	Passed
4	Each offices should have own reports.	Display reports in each offices.	Failed

Test Case Code:	Test No. 29		
Description:	Verify the compatibility of Mobile View of the System.		
Function:	Mobile View of the System.		
Item No.	Step	Expected Result	Actual Result
1	After typing the website link on any browser.	System should show fit appearance on mobile devices.	Failed

Appendix F

User Acceptance Testing



Republic of the Philippines
UNIVERSITY OF RIZAL SYSTEM
Binangonan, Rizal



COLLEGE OF COMPUTER STUDIES • COLLEGE OF COMPUTER STUDIES

USER ACCEPTANCE TESTING

WEB-BASED QUERY SYSTEM FOR UNIVERSITY OF RIZAL SYSTEM BINANGONAN CAMPUS

Part I. PERSONAL DATA

Name (optional): _____

Part II. USER ACCEPTANCE TESTING

Directions: Rate the presentation of each of the criteria by checking the numbers to determine the user acceptance of the developed System.

- 5 – Excellent
- 4 – Very Good
- 3 – Satisfactory
- 2 – Fair
- 1 – Poor

A. Functional Suitability

		Indicators	5	4	3	2	1
Completeness	The set of functions covers all the specified tasks and user objectives. <i>Ang buong sistema ay sumasaklaw sa lahat ng tinukoy na mga gawain at mga layunin ng gumagamit.</i>						
Correctness	The function provides the correct results with the needed degree of precision. <i>Ang sistema ay nagbibigay ng tamang resulta sa kinokailangang antas ng katumpakan.</i>						
Appropriateness	The function facilitates the accomplishment of specified tasks and objectives. <i>Ang paggamit sa sistema ay nangangasiwa sa pagtupad ng tiyokang mga gawain at layunin.</i>						

B. Reliability

		Indicators	5	4	3	2	1
Maturity	A system, product or component meets for reliability under normal operation. <i>Ang sistema, produkto o bahagi nito ay nakatutugon at maasahan sa ilalim ng normal na operasyon.</i>						
Availability	A product or system is operational and accessible when required for use. <i>Ang produkto o sistema ay gumagana at maaaring makuhang kinakailangan para sa paggamit.</i>						
Fault tolerance	A system, product or component operates as intended despite the presence of hardware or software results. <i>Ang sistema, produkto o bahagi nito ay inaabangan mapatatakbo sa kabilang ng pagkakaroon ng hardware o software.</i>						
Recoverability	In the event of an interruption or a failure, a product or system can recover the data establish the desired state of the system. <i>Sa kaganapan ng pagkagambala o kabiguang magamit ang sistema, maaaring mabawi ng produkto o sistema ang data na tuwirang apektado at muling mabalik ang nais na estado ng sistema.</i>						



**Republic of the Philippines
UNIVERSITY OF RIZAL SYSTEM
Binangonan, Rizal**



College of Computer Studies

• COLLEGE OF COMPUTER STUDIES • COLLEGE OF COMPUTER STUDIES

C. Portability

	Indicators	5	4	3	2	1
Adaptability	<p>A product or system can effectively and efficiently be adapted for different or evolving hardware, software or other operational or usage environments.</p> <p><i>Ang produkto o sistema ay maaaring epektib at mahusay na maiakma para sa iba't ibang hardware, software o iba pang mga uri ng pagpapatakbo o paggamit.</i></p>					
Durability	<p>A product or system can withstand technology evolution and changes without costly redesign, reconfiguration or recoding.</p> <p><i>Ang produkto o sistema ay maaaring tumagal sa ebolusyon ng teknolohiya at pagbago ng hindi mahal na muling idisenyo, pagsasayos o pakukudigo.</i></p>					
Installability	<p>A product or system can be successfully installed and/or uninstalled in a specified environment.</p> <p><i>Ang produkto o sistema ay maaaring matagumpay na maikabit at matanggal ng naayon sa pangangailangan.</i></p>					
Replaceability	<p>A product can replace another specified software product for the same purpose in the same environment.</p> <p><i>Ang produkto ay maaaring palitan ng isa pang tiyak na produkto na software para sa parehong layunin sa parehong kaligiran.</i></p>					
Affordability	<p>A product or system can increase efficiency and productivity by reducing the time and costs involved in delivering instruction.</p> <p><i>Ang produkto o sistema ay maaaring tumaas ang kakayahang at pagiging produktibo sa pamamagitan ng pabawas ng oras at paggugol sa katulad na kapaligiran.</i></p>					

D. Usability

	Indicators	5	4	3	2	1
Appropriateness Recognizability	<p>Users can recognize whether a product or system is appropriate for their needs.</p> <p><i>Makikilala ng mga gumagamit kung ang produkto o sistema ay angkop para sa kanilang mga pangangailangan.</i></p>					



College of Computer Studies

COLLEGE OF COMPUTER STUDIES • COLLEGE OF COMPUTER STUDIES

Learnability	A product or system enables the user to learn how to use it with effectiveness, efficiency in emergency situations. <i>Ang produkto o sistema ay nagbibigay daan upang malaman ng gumagimit kung paano ito gamitin nang epektibo, at mabisa sa mga panahon ng pangangailangan.</i>				
Operability	A product or system is easy to operate, control and appropriate to use. <i>Ang produkto o sistema ay madaling gamitin, kontrolin at angkop na gamitin.</i>				
User error protection	A product or system protects users against making errors. <i>Ginagabayang produkto o sistema ang mga gumagamit nito upang maiwasan ang mga pagkakamali.</i>				
User interface aesthetics	A user interface enables pleasing and satisfying interactions for the user. <i>Ang user interface ay nagbibigay kasiyahan at kaluguran para sa mga gumagamit nito.</i>				
Accessibility	A product or system can be used by people with the widest range of characteristics and capabilities to achieve a specified goal in a specified context of use. <i>Ang produkto o sistema ay maaaring gamitin ng mga tao na may pinakamalawak na hanay ng mga katangian at kakayahang upang makamit ang tiyak na layunin sa isang tinukoy na konteksto ng paggamit.</i>				

E. Performance Efficiency

	Indicators	5	4	3	2	1
Time-behavior	The response and processing times and throughput rates of a product or system, when performing its functions, meet requirements. <i>Nakatutugon ang sistema sa mga kinakailangan oras ng pagtugon at pagproseso at mga antas ng throughput ng isang produkto o sistema, kapag nakapagsasagawa ng tungkulin nito.</i>					
Resource utilization	The amounts and types of resources used by a product or system, when performing its functions, meet requirements. <i>Ang halaga at uri ng mga mapagkukunan na ginamit ng sistema, kapag gumaganap ng tungkulin nito ay nakatutugon sa mga pangangailangan.</i>					
Capacity	The maximum limits of the product or system, parameter meet requirements. <i>Nagtutugunan ng pinakamataas ng limitasyon o parametro ng sistema ang mga pangangailangan.</i>					



Republic of the Philippines
UNIVERSITY OF RIZAL SYSTEM
Binangonan, Rizal



College of Computer Studies

COLLEGE OF COMPUTER STUDIES • COLLEGE OF COMPUTER STUDIES

F. Security

		Indicators	5	4	3	2	1
Confidentiality	The prototype ensures that data are accessible only to those authorized to have access. <i>Tinitiyak ng sistema na ang mga datos ay nakukuha lamang ng mga awtorisadong magkaroon ng access nito.</i>						
Integrity	A system, product or component prevents unauthorized access to, or modification of, computer programs or data. <i>Pinipigilan ng sistema, ang di awtorisadong pag-access o pagbabago ng, mga programa sa computer o data.</i>						
Non-repudiation	Actions or events can be proven to have taken place, so that the events or actions cannot be repudiated later. <i>Ang mga pagkilos o mga kaganapan ay maaaring maputunayan na naganap, upang ang mga pangyayari o mga pagkilos ay hindi na maiwaki/malimutan pa kalaunan.</i>						
Accountability	The actions of an entity can be traced uniquely to the entity. <i>Ang mga pagkilos ng isang entity ay maaaring matukoy nang katangi-tangi sa entidad.</i>						
Authenticity	The identity of a subject or resources can be proved to be the one claimed. <i>Ang pagkakailangan ng tinutukoy/paksa o mapagkukunan ay mapatutunayan na siyang/inaangkin.</i>						

G. Compatibility

		Indicators	5	4	3	2	1
Co-existence	A product can perform its required functions efficiently while sharing a common environment and resources with other products, without detrimental impact on any other product. <i>Ang sistema ay maaaring magsagawa ng mga kinakailangang tungkulin nito nang mabisa habang nagbabahagi sa magkatulad na kapaligiran at mga mapagkukunan sa iba pang mga produkto, nang walang masomang epekto sa iba pang produkto.</i>						
Interoperability	Two or more systems, products or components can exchange information and use the information that has been exchanged. <i>Ang dalawa o higit pang bahagi ng sistema, produkto nito ay maaaring makapagpalitan ng impormasyon at magamit ang mga impormasyon na ipinagpalitan.</i>						



**Republic of the Philippines
UNIVERSITY OF RIZAL SYSTEM
Binangonan, Rizal**



College of Computer Studies

COLLEGE OF COMPUTER STUDIES • COLLEGE OF COMPUTER STUDIES

H. Maintainability

	Indicators	5	4	3	2	1
Modularity	A system or computer program is composed of discrete components such that a change to one component has minimal impact on other components. <i>Ang sistema o programa ng computer ay binubuo nga mga hiwalay na mga bahagi na ang anumang pagbabago sa isang bahagi nito ay may kaunting epekto sa iba pang mga sangkap.</i>					
Reusability	An asset can be used in more than one system, or in building other assets. <i>Ang kalidad ng kakayanan ng sistema ay maaaring gamitin nang higit sa isang isang sistema, o sa pagbuo ng iba pang mga sistema.</i>					
Analyzability	It is possible to assess the impact on a product or system of an intended change to one or more of its parts, or to diagnose a product for deficiencies or causes of failures, or to identify parts to be modified. <i>May posibilidad ang epekto sa produkto o sistema ng isang tinangkang pagbabago sa isa o higit pa sa mga bahagi nito, o upang masuri ang isang produkto para sa mga kakulangan o mga sanhi ng pagkabigo, o upang tukuyin ang mga bahagi na babaguhin.</i>					
Modifiability	A product or system can be effectively and efficiently modified without introducing defects or degrading existing product quality. <i>Ang produkto o sistema ay maaaring baguhin nang epektibo at mabilis nang hindi nagpapakilala sa mga depekto o nakakapag-pababa sa kalidad ng produkto.</i>					
Testability	Test criteria can be established for a system, product or component and tests can be performed to determine whether those criteria have been met. <i>Ang pamantayan ng pagsusulit ay maaaring mabuo/magawa para sa isang sistema, produkto o bahagi at maaaring isagawa ang mga pagsubok upang matukoy kung natugunan ang pamantayan.</i>					

Feedback:

Thank you!!!

CURRICULUM VITAE



MARIELLA B. BUQUE

Blk 1 Sakbit P7 Brgy. Sta Ana Taytay, Rizal
mariellabbuque662@gmail.com

EDUCATIONAL BACKGROUND

Name of School	Year Attended
College: University of Rizal System Binangonan Campus	2020 - Present
High School: Taytay Senior High School	2018-2020
Elementary: Sitio Tapayan Elem School	2008 - 2014

SEMINAR OR TRAINING ATTENDED

UI/UX Designing using Figma Webinar Using Zoom

Resource Speaker: Mr. Nefster C. Sardido
 Date: October 14, 2022

Virtual Platform Management Using Zoom

Place: www.Facebook.com/URS.OPA/LIVE
 Date: AUGUST 10, 2020

Virtual Platform Management Using Google Form

Place: www.Facebook.com/URS.OPA/LIVE
 Date: August 12, 2020

Virtual Platform Management Using Microsoft

Place: www.Facebook.com/URS.OPA/LIVE
 Date: August 13, 2020

ORGANIZATION/S OR AFFILIATED

CURRICULUM VITAE



CARL KIAN C. BALIAT

208 Lote st. San Juan, Darangan, Binangonan

kiannn005@gmail.com

EDUCATIONAL BACKGROUND

Name of School	Year Attended
College: University of Rizal System Binangonan Campus	2020 - Present
High School: Philippine Best Training Systems	2014 - 2018
Elementary: Philippine Best Training Systems	2008 - 2014

SEMINAR OR TRAINING ATTENDED

UI/UX Designing using Figma Webinar Using Zoom

Resource Speaker: Mr. Nefster C. Sardido

Date: October 14, 2022

Virtual Platform Management Using Zoom

Place: www.Facebook.com/URS.OPA/LIVE

Date: AUGUST 10, 2020

Virtual Platform Management Using Google Form

Place: www.Facebook.com/URS.OPA/LIVE

Date: August 12, 2020

Virtual Platform Management Using Microsoft

Place: www.Facebook.com/URS.OPA/LIVE

Date: August 13, 2020

ORGANIZATION/S OR AFFILIATED

CURRICULUM VITAE



RHEABELLE V. CAPAYAS

767 San Jose St. Brgy. Bilibiran, Binangonan, Rizal
pandapigkaneki@gmail.com

EDUCATIONAL BACKGROUND

Name of School	Year Attended
College: University of Rizal System Binangonan Campus	2020 - Present
High School: Taytay National High School	2014 - 2018
Elementary: San Francisco Elementary School	2008 - 2014

SEMINAR OR TRAINING ATTENDED

UI/UX Designing using Figma Webinar Using Zoom

Resource Speaker: Mr. Nefster C. Sardido

Date: October 14, 2022

Virtual Platform Management Using Zoom

Place: www.Facebook.com/URS.OPA/LIVE

Date: AUGUST 10, 2020

Virtual Platform Management Using Google Form

Place: www.Facebook.com/URS.OPA/LIVE

Date: August 12, 2020

Virtual Platform Management Using Microsoft

Place: www.Facebook.com/URS.OPA/LIVE

Date: August 13, 2020

ORGANIZATION/S OR AFFILIATED

CURRICULUM VITAE



JAYED ANDREI V. ANORE

322 T Ceñidoza St. Mambog Binangonan
Rizal anorejayed09@gmail.com

EDUCATIONAL BACKGROUND

Name of School	Year Attended
College: University of Rizal System Binangonan Campus	2020 - Present
High School: Binangonan Catholic College.	2014 - 2020
Elementary: Casimiro A. Ynares Sr. Elementary School.	2008 - 2014

SEMINAR OR TRAINING ATTENDED

UI/UX Designing using Figma Webinar Using Zoom

Resource Speaker: Mr. Nefster C. Sardido

Date: October 14, 2022

Virtual Platform Management Using Zoom

Place: www.Facebook.com/URS.OPA/LIVE

Date: AUGUST 10, 2020

Virtual Platform Management Using Google Form

Place: www.Facebook.com/URS.OPA/LIVE

Date: August 12, 2020

Virtual Platform Management Using Microsoft

Place: www.Facebook.com/URS.OPA/LIVE

Date: August 13, 2020

ORGANIZATION/S OR AFFILIATED