Liceo de Cagayan University College of Information Technology

ALUMNI COMMUNITY PORTAL OF DON CARLOS NATIONAL HIGH SCHOOL

A Project Proposal Presented to

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In Partial Fulfillment of the Subject

IT Research Methods

by:

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Chapter 1

THE PROBLEM AND ITS SCOPE

Introduction

The pandemic has given every individual a chance to indulge in technology, especially the utilization of online. The booming of the online system of communication paved the way for hundreds of opportunities from social interactions, information dissemination, entertainment, communication, and, most especially, learning platforms. In the learning platform, it is not just the current students who are pursuing their studies had been graced with the efficacy of the technology, but the graduates as well. Graduates in every institution play a vital role in every school were affiliated with. In many circumstances, communication between graduates and the school may be quite advantageous. For instance, the school could be interested in inviting one of its former students who is currently a successful individual in the field of medicine to give a guest lecture or just to inspire and motivate the current learners, there is a higher tendency that the institution will have to spend time tracing the relationship if there is improper interaction. Thus, preserving consistent data and developing appropriate communication must be made available to every school.

Having an Online Portal for Alumni can be a great help to have solid communication between parties. This mechanism shall assist in achieving interaction with fellow alumni, the faculty, and the organization as a whole. They may create a powerful network of specialists in this way especially when technology is being enjoined to the

creation. The goals of this alumni database system are to gather data regarding the graduates of Don Carlos National High School such as personal information, educational background, training, and employment data.

This perspective helped the developer to bring to life the creation of the Alumni Community Portal for Don Carlos National High School.

Framework

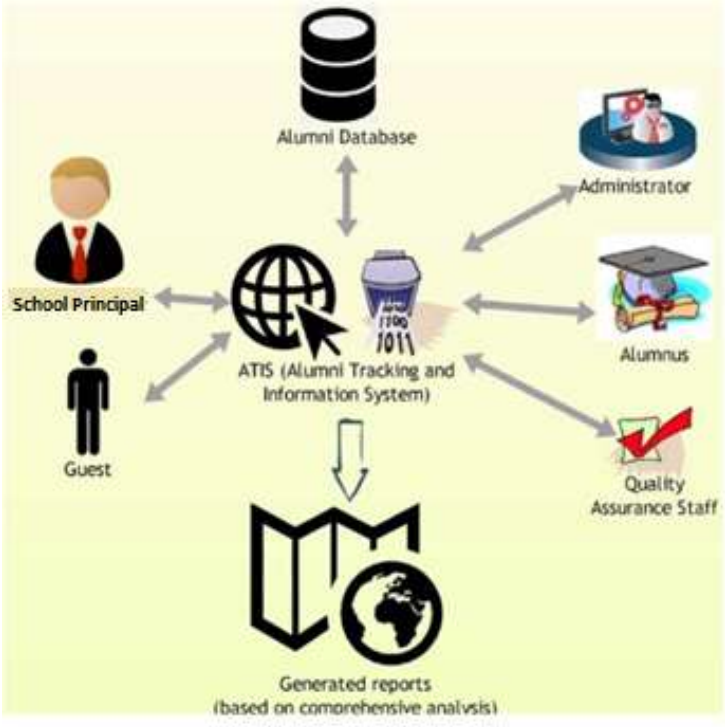

Figure 1. ***Framework for ATIS (Alumni Tracking and Information System)***

This figure state that the alumni tracking and information system. The users of the system are guest, alumnus, administrator, school principal and quality assurance staff. The input will be an alumni database that is coming from the respective institutions. After

comprehensive analysis with filters, the result will show in terms of specializations, industry category, year of graduation, location of workplace, job positions and employment rates.

According to Cordova et.al. (2020) Alumni are former students of any higher education institution (HEI), which is important in achieving high-quality education. They act as an example for students and the community and are regarded as the institution's most precious asset.

Statement of the Problem

This study will establish an Alumni Community Portal of Don Carlos National High School starting in 2018 onwards.

Specifically, it seeks to answer the following:

1. What are the profiles of the graduates in terms of:
    - 1.1.1 Demographic Profile
    - 1.1.2 Career Path
    - 1.1.3 Engagement
2. What is the mode of school communication in reaching out to the graduates?
3. What is the effective way to generate report?

Objectives of the Study

To create an Online Database System that will profile and keep records of all the current status of the graduates of Don Carlos National High School.

Specific Objectives

- To create an online profiling form that will store information about each graduate of the institution that can be available for editing and updates
- To create a system that will help the school communicate and reach out to the graduates
- To generate the reports for documentation purposes.

Scope and Delimitations of the Study

The study is focused on the graduates of Don Carlos National High School from School Year 2017-2018 onwards.

Significance of the Study

The findings of this study will be beneficial to the following:

The Management. The implementation of the Online Database System shall be used to communicate with the graduates of the institution and to track the progress of graduates. This can help the faculty of Don Carlos National High School to have easier access to the graduate especially those with successful milestones to inspire the current learners.

The Teachers and Staff. The implementation of the system can help the teachers provide a better visualization to the learners for them to encourage in their endeavors.

The Users (Alumni). The system can help them keep in touch with their Alma Mater and be updated with the progress of their classmates and batch mates as well.

Output of the Study

The output of the study is an alumni community portal of Don Carlos National Highschool to gather the information of the graduating students of the institution.

Definition of Terms

Online - available on or performed using the internet or other computer network.

Alumni - graduates of Don Carlos National Highschool.

PHP - popular general-purpose scripting language that is especially suited to web development of this study.

MySQL - is a widely used relational database management system (RDBMS) and where the profile of graduate students stored.

Information – profile of graduate students of Don Carlos National Highschool.

Chapter 2

REVIEW OF RELATED LITERATURE AND STUDIES

The following are reviews, which show significant learnings from the study. They are grouped into the following headings: Local Literature, Foreign Literature, Local Studies, and Foreign Studies.

Local Literature

Finishing secondary education has been a milestone for many of us. Understanding the state of the country, and having a diploma in High School is a big credential that we can carry on throughout our life journey. In the act that was introduced by former Senator Paolo Benigno "Bam" A. Aquino IV (2016), it states that 2 out of 5 high school graduates do not pursue tertiary education in our country and that most of them find satisfaction with the diploma they are carrying on. The Department of Trade and Industry Secretary, Alfredo Pascual, discussed over a radio program that companies to rethink their hiring policies that favored college graduates and employ more High School graduates. For every student, a high school graduation is much more than just a piece of paper. When it comes to life beyond graduation, simply possessing a high school certificate opens up so many opportunities for kids. A crucial first step is earning a high school diploma. Candidates with post-high school education are prioritized in the current competitive employment market. Students who are debating dropping out of high school run the danger of not receiving a diploma and will have far fewer options than their peers who complete high school and receive a diploma.

On the other cycle of success, the majority of the graduates may opt to take or proceed to Higher Education, still, the High School Diploma has a contributing factor for the future this individual holds. The capacity of recent high school graduates to enroll in college and succeed in foundational courses without the need for remediation is referred to as "college readiness." It emphasizes the information and abilities necessary to effectively pursue a college education (Mamba, Tamayao & Vecaldo, 2020).

May the students accept the faith of being a High School graduate or leap the journey and proceeded to Higher Education, these individuals are all part of the Alumni. According to the UP Office of the Alumni headed by AVP for Alumni Relations Angelica “Rica” Abad (2019), Alumni can be defined as a student who graduated and possesses a diploma or certificate from any of the bachelor, graduate, post-graduate, certificate, and high school programs of the institution. These individuals play a vital part in the institution where they graduated from as a vessel for inspiration, motivation, and scholarly improvements.

The study of Caingcoy et. al (2021) states that providing feedback to the organization, since it plays a vital role in academia, evaluating the curriculum, and determining if the curriculum has been relevant to the community and industry, tracking graduates has become essential for educational institutions across the nation.

The research of Gonzales, R., Bautista, A., & Gelido, R. (2019) says that follow-up studies are very useful in order to acquire important data on employment statistics, the suitability of learned or gained skills, and the level of satisfaction graduates have with the institutions.

The development of an alumni database system will aid in developing and maintaining relationships with alumni that motivate them to participate in school affairs and so support the promotion of the institution's good name and reputation both domestically and internationally. Additionally, it motivates students to take part in homecomings and other school-related events as stated in the study of Etcuban & Durano (2015).

Foreign Literature

According to Dickmann, Cooner, and Dugan (2007), the desire to make high school more relevant to and meaningful in students' lives is a recurring topic in the present drive to reform high schools. A rising body of research indicates that increasing the relevance of high school can have favorable effects on students' attendance, promotions, dropout rates, and even their academic performance and post-secondary enrollment decisions.

Alumni relations are now a crucial component of an institution's advancement efforts, as stated in Loughborough University's Fundraising in African HE Release (2019) because they can serve as fundraising prospects, produce priceless word-of-mouth marketing among their social and professional networks, allow the institution to continue to benefit from the skills and experience of its graduates, serve as excellent role models for current students and are frequently in a position to provide students with practical support as they begin their careers, and are frequently in a position to give.

Tulankar and Grampurohit (2020) further prove that the evolution of education may be greatly influenced by former students or graduates of a certain school. The possibility for alumni to do fundraising is quite high. It is equally adept at creating networks for the exchange of knowledge and talents. Therefore, institutions of higher learning need to form and maintain positive relationships with their alumni by including them in growth, network building, and decision-making activities that contribute to the institution's overall advancement.

This is supported by the study of Tulankar and Grampurohit (2020) which states that it is essential for institutions to have open, direct channels of contact with alumni and to make sure that alumni representatives provide the management body of the institution substantial support. In addition to alumni donations, it can serve a variety of other purposes, such as serving as ambassadors for the institution, attracting new students and mentoring current ones, helping students advance their careers, assisting alumni in maintaining connections, and giving the institution insightful feedback. A strong alumni network that includes external stakeholders helps the university improve its reputation.

The goal of this system, as stated in the study of Kundhare et. al (2022), is to create an alumni management system that can manage alumni data, make it simple to access, and do away with time-consuming human work. The creation of an alumni database system will primarily assist users in staying in touch with the batch they are a part of. Fast data retrieval is essential, and a lot of it will probably assist keep the records intact.

This system shall be efficient as it is a system is computerized, but all of the records are kept in an online database, which makes it very simple to access and retrieve data from the database and offers numerous user accessibility as well as a variety of user rights (Shinde, et. al., 2021).

Chapter 3

METHODS

Research Design

This study follows a standard process for developing a high-quality software design called Software Development Life Cycle (SDLC) it is a logical process used by system analysts to develop an information system, including its requirements, validation, training, and user ownership. Any SDLC process should result in a high-quality system that meets or exceeds customers' expectation, reach its completion within time and cost estimates, works effectively and efficiently in the current and planned Information Technology infrastructure, and is inexpensive to maintain and cost-effective to enhance. It adheres to important phases that are essential for developers, such as planning, analysis, design, and implementation.

Figure 1. Software Development Life Cycle (SDLC)

This model is also referred to as “Software Development Process Models". Each process model follows a Series of steps unique to its type to ensure success in the process of software development.

- **Analysis**

The researcher did a thorough review of the data gathered by inspecting the school's manual-operated system and identifying the objectives of the project, the project needs, the project scope, constraints, and system requirements. After doing so, the researcher come up with the system design of the proposed system.

- **Design and System Requirements**

This system will be deployed via the Internet with a mobile application. The researcher will be using PHP version 7 as a programming language. For this purpose, the researcher used MySQL Server 5.7. MySQL serves as a tool for storing records.

- **Implementation**

The researcher implements the new system for the users. This phase also includes company presentation and system user training on how to use the system.

- **Testing**

The researcher's final output will run into several tests to know possible bugs in the system. This phase will allow the users to fine-tune the requirements and review them before the resulting software implementation.

- **Evaluation and Maintenance**

After the system will be tested and deployed at Don Carlos National Highschool server, then it enters the maintenance phase of the software development life cycle. This will include some minor bug fixes. The researcher may have to make some changes in the produced system,

also the client may come up with functionality enhancements to the developed system, and later be added to the system.

- **Analysis and Design**

The researcher did a thorough review of the data gathered, by inspecting the school's manual-operated system and identifying the objectives of the project, the project needs, project scope, constraints, and system requirements. After doing so, the researcher come up with the system design of the proposed system. This system will be deployed via the Internet with the mobile application. The researcher used PHP version 7 as a programming language. For this purpose, the researcher used MySQL Server 5.7. MySQL serves as a tool for storing records.

Inputs

The input that will be needed are the LRN of graduates, Complete Name, Year Graduated and other details for registering the account before logging in and can access the system. The graduates also need to fill up the profile data and survey questionnaires.

Process

The system will be functional if the user can log in to their specific account and that their data will be save in the database and then the system will give the feedback to every action that the actors will do in the system.

Outputs

The output expected in the system includes answered survey questionnaire and profiling of graduates data which can be used as reference in program adjustments in the curriculum and for future use of data

Research Setting

This system is designed for Don Carlos National Highschool located at Don Carlos, Bukidnon.

Research Instruments

The researcher used UML (Unified Modeling Language) in analyzing the data process and activities of the proposed system. In the ERD (Entity-Relationship Diagram) the relationship between data was shown (Kendall and Kendall, 2014).

This proposed system used PHP version 7 as a programming language for the designing, and coding serves as the frontend of the system. As for the backend, the system is linked to MySQL Server 5.7.

Data Gathering

The researcher will seek proper permission from the adviser of grade 12 to the actual conduct of data gathering procedures. After being granted permission, the researcher will conduct an interview with the graduates.

System Design

System design is very important in developing a system. It ensures that the logical design which consists of procedure and database meets not only the requirements of the proposed system but also the physical design of the system.

Current System

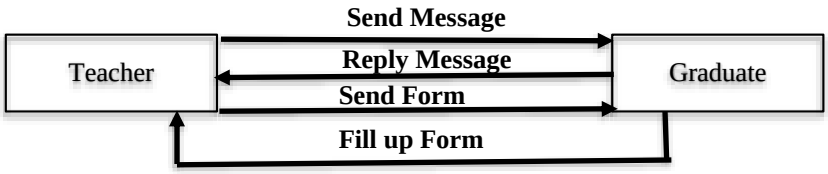

Figure 2. Current System of the Study

Proposed System

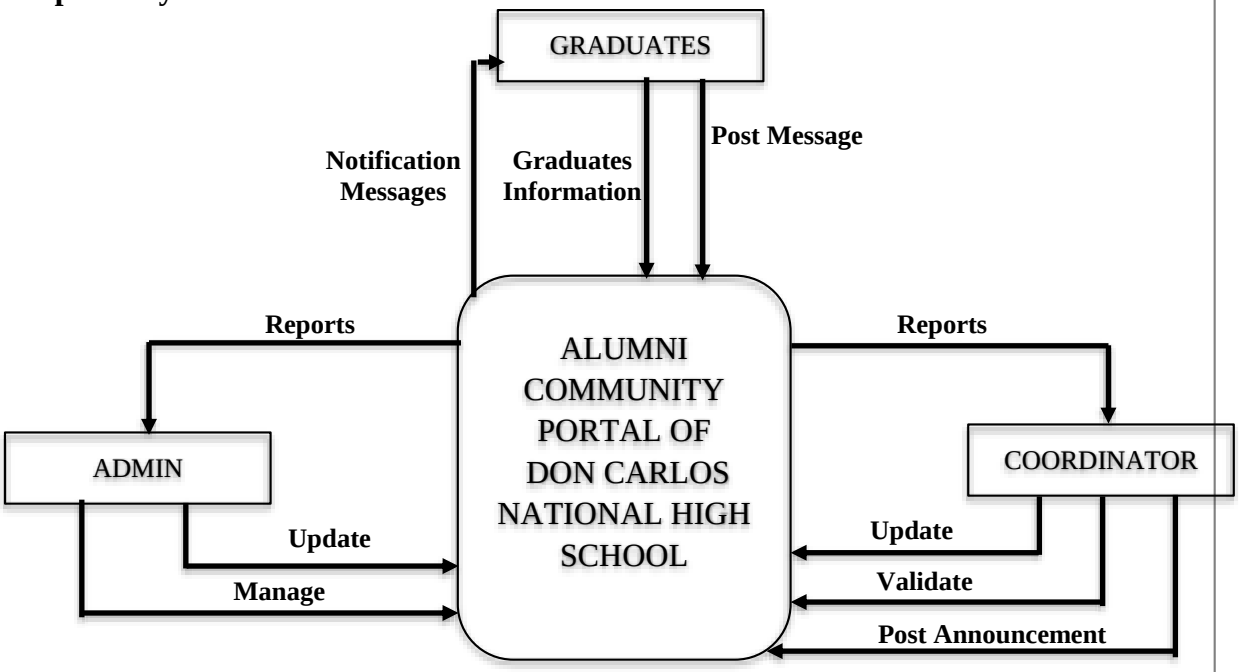

Figure 3. Proposed System of the Study

Entity Relationship Diagram

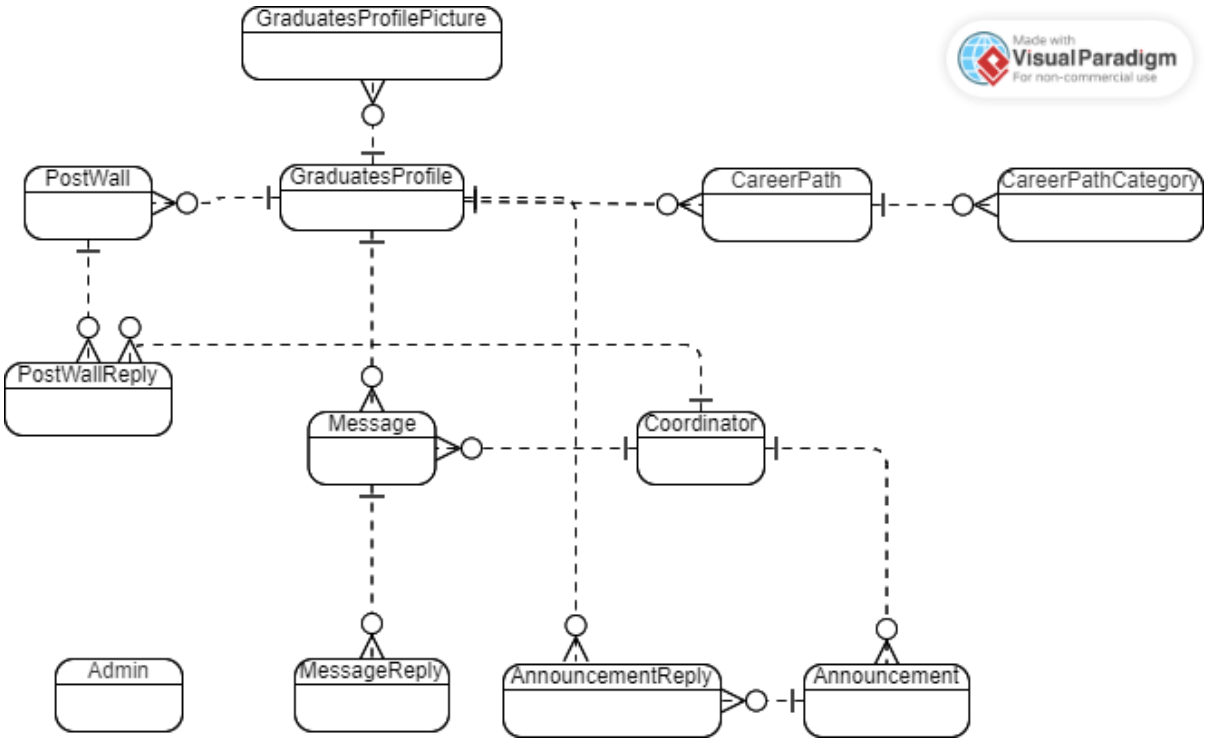

Figure 4. Entity Relationship Diagram of the Alumni Community Portal Of Don Carlos National High School

Data Dictionary

The system uses one database named dbAlumniCommunity, which contains many tables that store pertinent records of Don Carlos National Highschool graduates such as personal information and career path records.

Table 1. Admin

Field Name	Type	Size	Value	Description
admin_id	Integer	10	Not Null	(PK) admin ID
email	Varchar	30	Not Null	Admin email address
full_name	Varchar	25	Not Null	Admin fullname
admin_image	blob		Not Null	Admin image
password	Varchar	20	Not Null	Admin password

Table 2. GraduatesProfile

Field Name	Type	Size	Value	Description
graduate_ID	Integer	10	Not null	(PK) Graduate ID
graduate_lname	Varchar	20	Not null	Graduate's last name
graduate_mname	Varchar	20	Not null	Graduate's middle name
graduate_fname	Varchar	20	Not null	Graduate's first name
graduate_address	Varchar	50	Not null	Graduate's Address
graduate_gender	Integer	1	Not null	Graduate's gender 0-Female 1-Male
graduate_bday	Date		Not null	Graduate's birthday
graduate_year_graduated	Date		Not null	Graduate's year graduated
graduate_profile_last_update	Date		Not null	Graduate's last profile update
graduate_pic_ID	Integer	15	Not null	Graduate's Picture ID

graduate_emailadd	Varchar	20	Not null	Graduate's Email Address
graduate_password	Varchar	20	Not null	Graduate's Password
graduate_active	Integer	1	Not null	Graduate' status 0-Inactive 1-Active

Table 3. GraduateProfilePicture

Field Name	Type	Size	Value	Description
profilepic_ID	Integer	10	Not null	(PK)prof_pic
graduate_ID	Integer	10	Not null	(FK) Graduate ID
profilepic _URL	Varchar	50	Not null	Picture's URL
profilepic _grad_ID	Integer	15	Not null	Graduates Picture ID
profilepic _On	Date		Not null	Date Uploaded

Table 4. Announcements

Field Name	Type	Size	Value	Description
announcement_ID	Integer	10	Not null	(PK) Announcement ID
announcement_subject	Varchar	30	Not null	Announcement Subject
announcement_body	Long		Not null	Announcement Body
announcement_category_ID	Integer	15	Not null	Announcement Category
announcement_status	Varchar	15	Not null	Announcement Status

Table 5. AnnouncementsReply

Field Name	Type	Size	Value	Description
AReply_ID	Integer	10	Not null	(PK) Reply ID
graduate_ID	Integer	10	Not null	(FK) Graduate ID
announcement_ID	Integer	10	Not null	(FK) Announcement ID
reply_date	Date		Not null	Reply Date
reply_contents	Long text		Not null	Reply Content
reply_stat	Varchar	15	Not null	Reply Status

Table 6. Message

Field Name	Type	Size	Value	Description
message_ID	Integer	10	Not null	(PK) Message ID
graduate_ID	Integer	10	Not null	(FK) Graduate ID
coordinator_ID	Integer	10	Not null	(FK) Coordinator ID
message_subject	Varchar	30	Not null	Message Subject
message_body	Long Text		Not null	Message Body
message_status	Varchar	15	Not null	Message Status

Table 7. MessageReply

Field Name	Type	Size	Value	Description
Mreply_ID	Integer	10	Not null	(PK) Reply ID
Mreply_date	Date		Not null	Date replied
Mreply_body	Long Text		Not null	Reply Body

Table 8. PostWall

Field Name	Type	Size	Value	Description
post _ID	Integer	10	Not null	(PK) Post Wall ID
graduate_ID	Integer	10	Not null	(FK) Graduate ID
post_message	Long Text		Not null	Wall post message
post_date	Integer	11	Not null	Date posted
post_message	Long Text		Not null	Wall post message

Table 9. PostWallReply

Field Name	Type	Size	Value	Description
post _ID	Integer	10	Not null	(FK) Post Wall ID
graduate_ID	Integer	10	Not null	(FK) Graduate ID
wall_date	Date		Not null	Date replies
wall_content	Long Text		Not null	Reply Content

Table 10. Coordinator

Field Name	Type	Size	Value	Description
coordinator_ID	Integer	10	Not null	(PK) Graduate ID
coordinator_lname	Varchar	20	Not null	Graduate's last name
coordinator_mname	Varchar	20	Not null	Graduate's middle name
coordinator_fname	Varchar	20	Not null	Graduate's first name
coordinator_address	Varchar	50	Not null	Graduate's Address
coordinator_gender	Integer	1	Not null	Graduate's gender 0-Female 1-Male
coordinator_bday	Date		Not null	Graduate's birthday
coordinator_profile_last_update	Date		Not null	Graduate's last profile update
coordinator_pic_ID	Integer	15	Not null	Graduate's Picture ID
coordinator_emailadd	Varchar	20	Not null	Graduate's Email Address
coordinator_password	Varchar	20	Not null	Graduate's Password
coordinator_active	Integer	1	Not null	Graduate' status 0-Inactive 1-Active

Table 11. CareerPath

Field Name	Type	Size	Value	Description
career_ID	Integer	15	Not null	(PK)career ID
graduate_ID	Integer	15	Not null	(FK)Graduates ID
emp_name_company	Varchar	20	Not null	Name of Company
emp_address	Varchar	50	Not null	Company's Address

Table 12. CareerPathCategory

Field Name	Type	Size	Value	Description
career_ID	Integer	15	Not null	(FK)career ID
Career_name	Varchar	20	Not null	Career path name

Use Case Diagram

Figure 5 shows the use case diagram for administrator/teacher in which represent to what extent the actor can access the system.

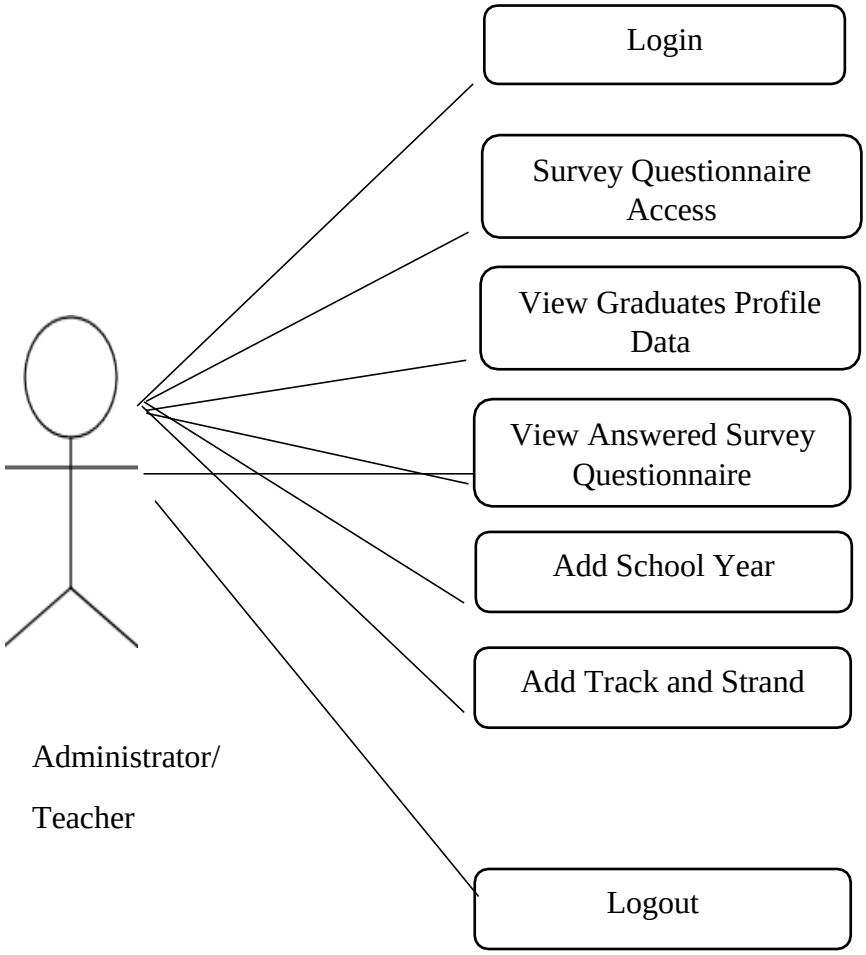

Figure 5. Use Case Diagram for Administrator/Teacher

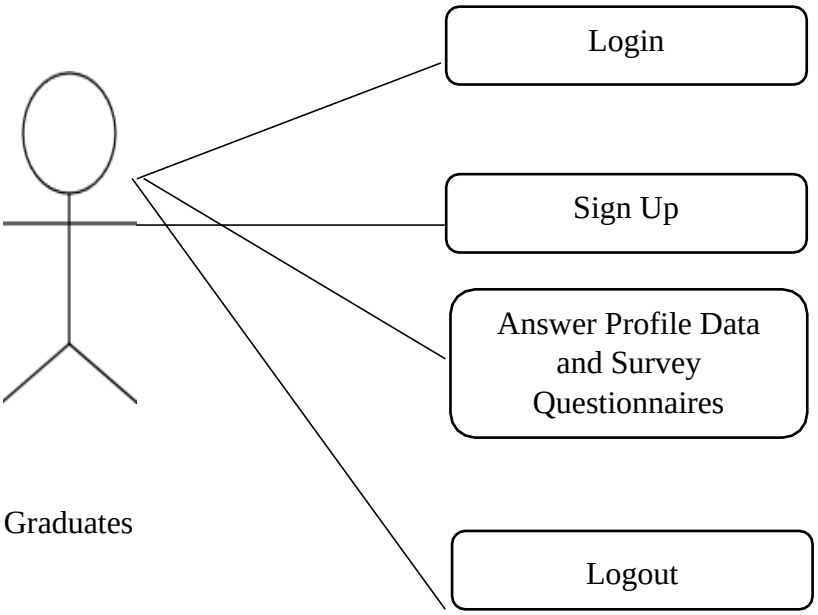

Figure 6. Use Case Diagram for Graduates

Figure 6 shows the use case diagram for the graduates which represents to what extent the actor can access the system.

Use Case Description

Table 13. Use Case for Log In

Use Case Name	Log In
Actor	Admin/Teacher/Graduates
Description	This use case is used by the actors to access the system
Normal Flow	1. The user invokes the use case by clicking the "Log-In" button 2. The users enter ID No and password 3. The system verifies and validates the login and password 4. Use case instance terminates
Alternate Flow	If login name and password are invalid, user has to re-enter of valid user name or password
Pre-Condition	User must be registered
Post Condition	User can access the system or just exit the website
Assumption	User is on the website

Table 13 shows the use case for Log In which the actors need to fill in before opening the system. The actors must correctly fill in the data needed so that the system can validate and the user can access the system.

Table 14. **Use Case for Survey Questionnaire Access**

Use Case Name	Survey Questionnaire Access
Actor	Administrator/Teacher
Description	This use case is use by the administrator to access survey questionnaire
Normal Flow	1. The user invokes the actor by the "Survey Questionnaire" button 2. The user will then manipulate necessary action whether to add, edit, delete survey questions 3. The user will save actions taken
Alternate Flow	The user will go back to previous state before saving if he cancels to save the data
Pre-Condition	The user must successfully log in as administrator/teacher
Post Condition	The user starts to manage survey questions
Assumption	The user is on the website

Table 14 shows the use case for survey questionnaire access which the actors are only the administrators/teacher used to add, edit and delete survey questions. The user must successfully log in as administrator/teacher before he can manipulate the module.

Table 15. **Use Case for View Graduates Profile Data**

Use Case Name	View Graduates Profile Data
Actor	Administrator/Teacher
Description	This use case is used by the administrator/teacher to view the profile of SHS graduates
Normal Flow	1. The user log in to the system successfully 2. The user click the "View Graduates Profile" button 3. The user can access the system
Alternate Flow	The user will exit the system if there are no other actions taken
Pre-Condition	User must log in successfully
Post Condition	User can view the graduates profile data
Assumption	User is on the website

Table 15 shows the use case for viewing the graduates profile data. It can only be access by the administrator/teacher in which the user can view the graduates profile data.

Table 16. **Use Case for View Answered Survey Questions**

Use Case Name	View Answered Profile Data and Survey Questions
Actor	Admin/Teacher
Description	This use case is used by the admin/teacher
Normal Flow	1. The user log in to the system successfully 2. The user click the "View Answered Survey Questions" button 3. The user can access the system
Alternate Flow	The user will exit the system if there are no other actions taken
Pre-Condition	User must log in successfully
Post Condition	User can view the answered survey questions
Assumption	User is on the website

Table 16 shows the use case for viewing the answered survey. It can only be access by the administrator/teacher in which the user can view the answered survey data of the graduates.

Table 17. **Use Case for Add School Year**

Use Case Name	Add School Year
Actor	Admin/Teacher
Description	This use case is used by the admin to add school year
Normal Flow	1. The user log in to the system successfully 2. The user click the "Add School Year" button 3. The user can access the system
Alternate Flow	The user will exit the system if there are no other actions taken
Pre-Condition	User must log in successfully
Post Condition	User can add another school year
Assumption	User is on the website

Table 17 shows the use case for adding a school year. The school year will start from 2017-2018 and onwards. The school year can only be added by the administrator/teacher.

Table 18. **Use Case for Add Track and Strand**

Use Case Name	Add Track and Strand
Actor	Admin/Teacher
Description	This use case is used by the admin to add track and strand
Normal Flow	1. The user log in to the system successfully 4. The user click the "Add Track and Strand" button 5. The user can access the system
Alternate Flow	The user will exit the system if there are no other actions taken
Pre-Condition	User must log in successfully
Post Condition	User can add track and strand
Assumption	User is on the website

Table 18 shows the use case for adding the track and strand. The current tracks offered are academic with General academic strand and Humanities and Social Science and Technical Vocational Livelihood and current strands are Food

and Beverage Services, Computer Systems Servicing and Shielded Metal Arc welding. The track and strand can only be added by the administrator/teacher.

Table 19. **Use Case for Sign-Up/Registration**

Use Case Name	Sign Up/Registration
Actor	Graduates
Description	This use case is used by the actors to register before accessing the system
Normal Flow	1. The user invokes the user case by clicking the "Sign Up" button 2. The user will then register important information 3. The user will then save the information
Alternate Flow	If there are blank items, the actor must complete all the details and then saves the data
Pre-Condition	The user has not been registered yet in the system
Post Condition	The user is now registered in the system
Assumption	The user is on the website

Table 19 shows the use case for Sign Up/ Registration. It can be accessed by the graduates where they will input the information needed before they can log in and access the system. Sign up form must be completely filled up before saving the data in the database.

Table 20. **Use Case for Answer Profile Data and Survey Questionnaire**

Use Case Name	Answer Profile Data and Survey Questionnaire
Actor	Graduates
Description	This use case is used by the actors to register before accessing the system
Normal Flow	1. The user will be directed to the page of answer profile data and survey questionnaire 2. The actor saves the data 3. The system go back to the home page
Alternate Flow	If there are blank items, the actor must complete all the details and then saves the data
Pre-Condition	User must be registered
Post Condition	User can access the system or just exit the website
Assumption	User is on the website

Table 20 shows the use case for answer profile data and survey questions.

The answer profile data can only be answered by the graduates.

Table 21. **Use Case for Log Out**

Use Case Name	Log Out
Actor	Admin/Teacher/Graduates
Description	This use case is used by the actors to sign out from the system
Normal Flow	1. The system invokes the user by clicking the "Log Out" Button 2. The system terminates the session
Alternate Flow	The user may log in to another account after logging out
Pre-Condition	The user is log in his/her account
Post Condition	User is log out from the system or just exit the system
Assumption	User is on the website

Table 21 shows the use case for log out which the actors will click the logout button if they want to terminate the session.

Sequence Diagram

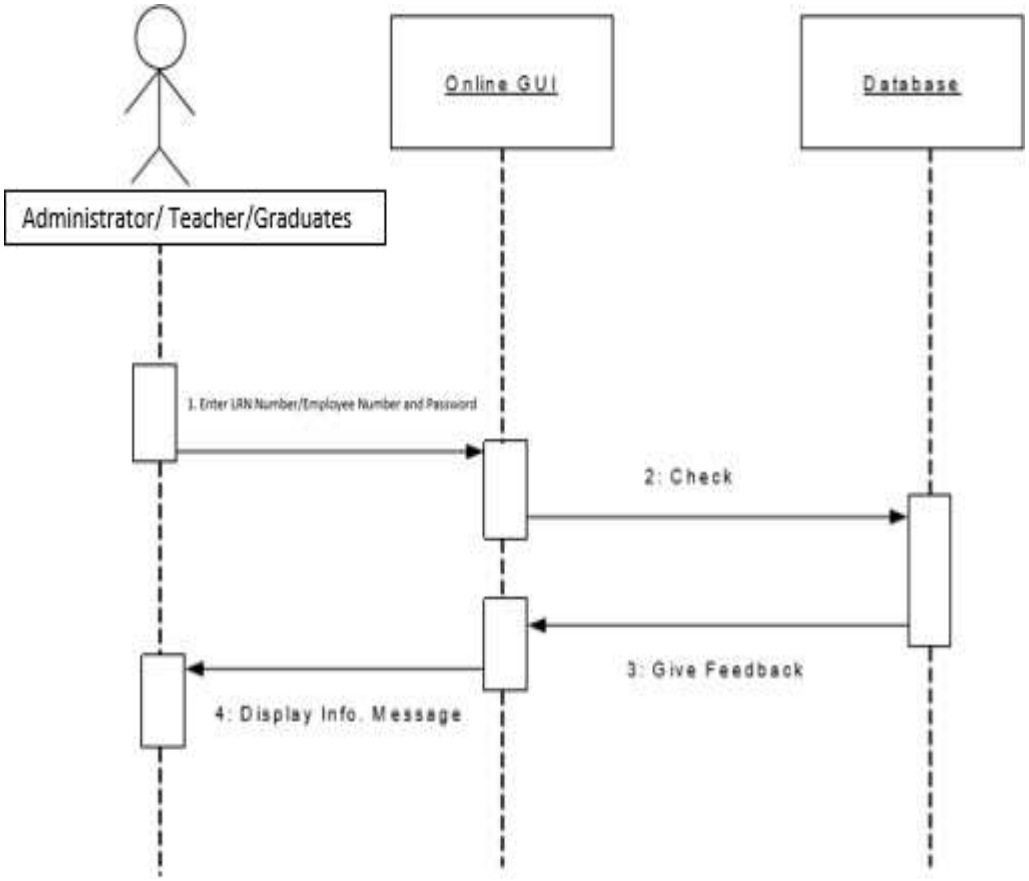

Figure 7. Sequence Diagram for Log In

Figure 7 shows the sequence diagram for log in wherein the administrator/teacher/graduates need to enter the ID no and password and then the system check and validates the data, gives feedback and then display the message.

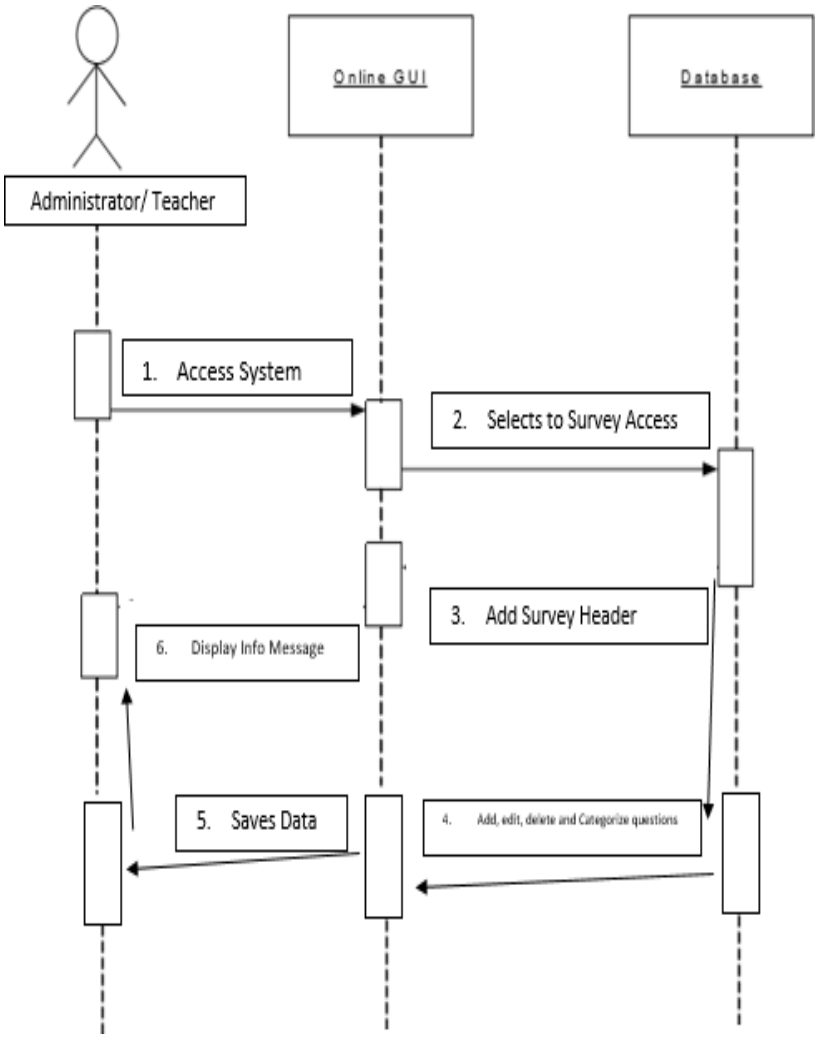

Figure 8. Sequence Diagram for Survey Questionnaire Access

Figure 8 shows the sequence diagram for survey questionnaire access in which it shows the order on how the survey questionnaire module works.

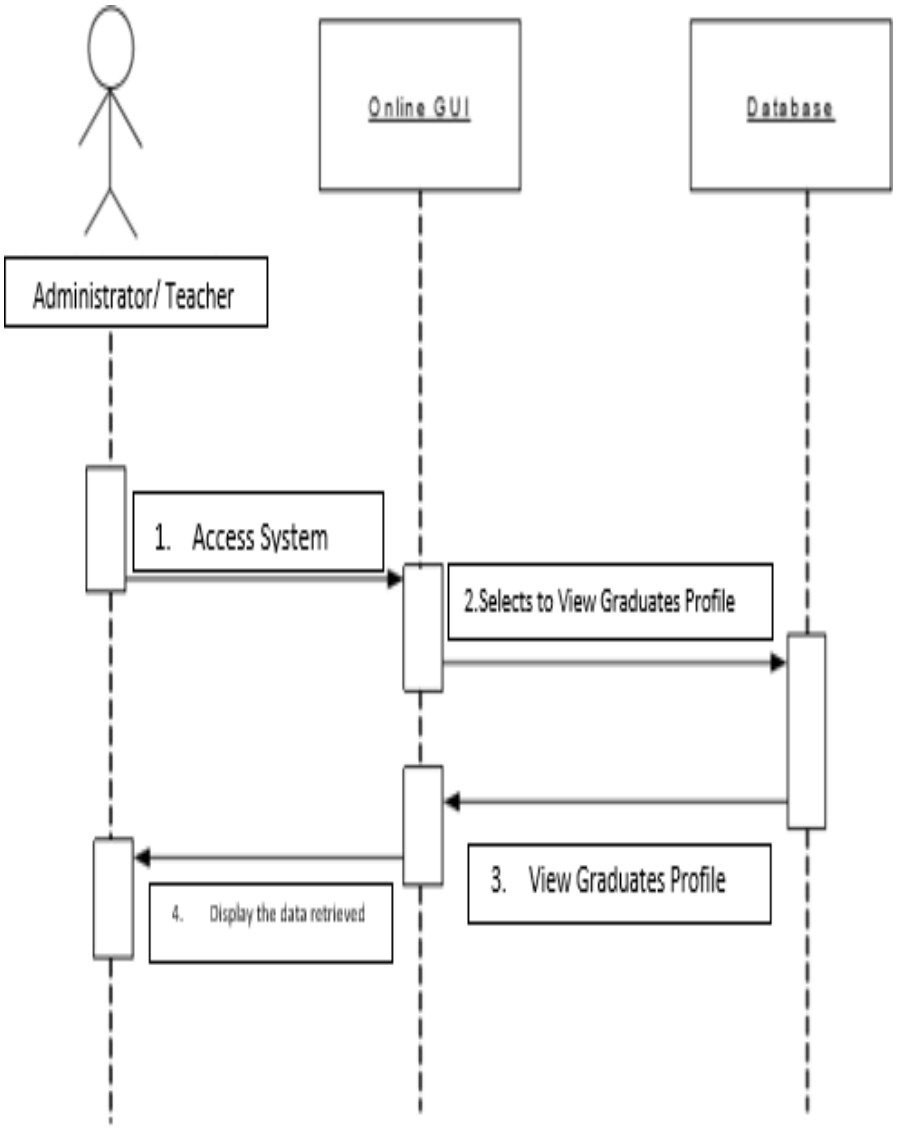

Figure 9. Sequence Diagram for View Graduates Profile

Figure 9 shows the sequence diagram for survey questionnaire access in which administrator/teacher can access the system and then selects to view graduates profile. The user can then view graduates profile and the system will display the data retrieved.

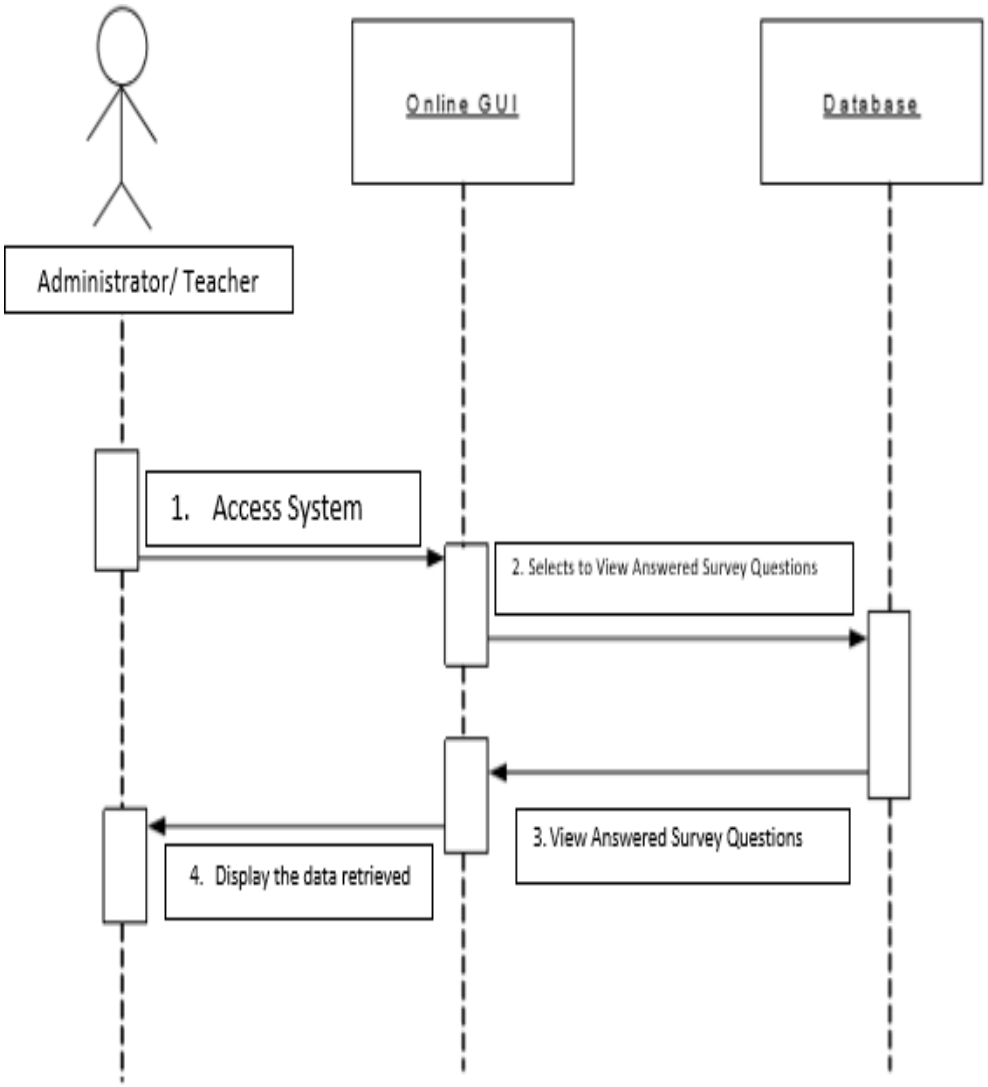

Figure 10. Sequence Diagram for View Answered Survey Questions

Figure 10 shows the sequence diagram for survey questionnaire access in which it shows the order on how the survey questionnaire module works

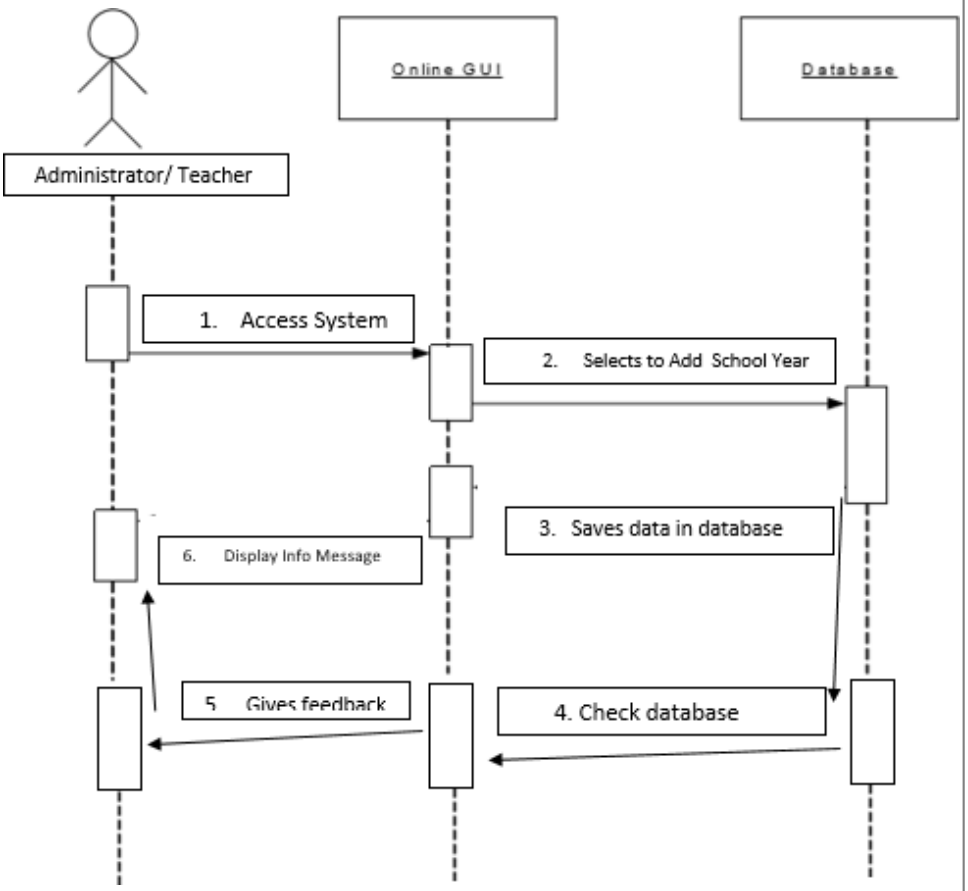

Figure 11. Sequence Diagram for Add School Year

Figure 11 shows the sequence diagram for adding a school year in which it shows the order on how adding a school year works.

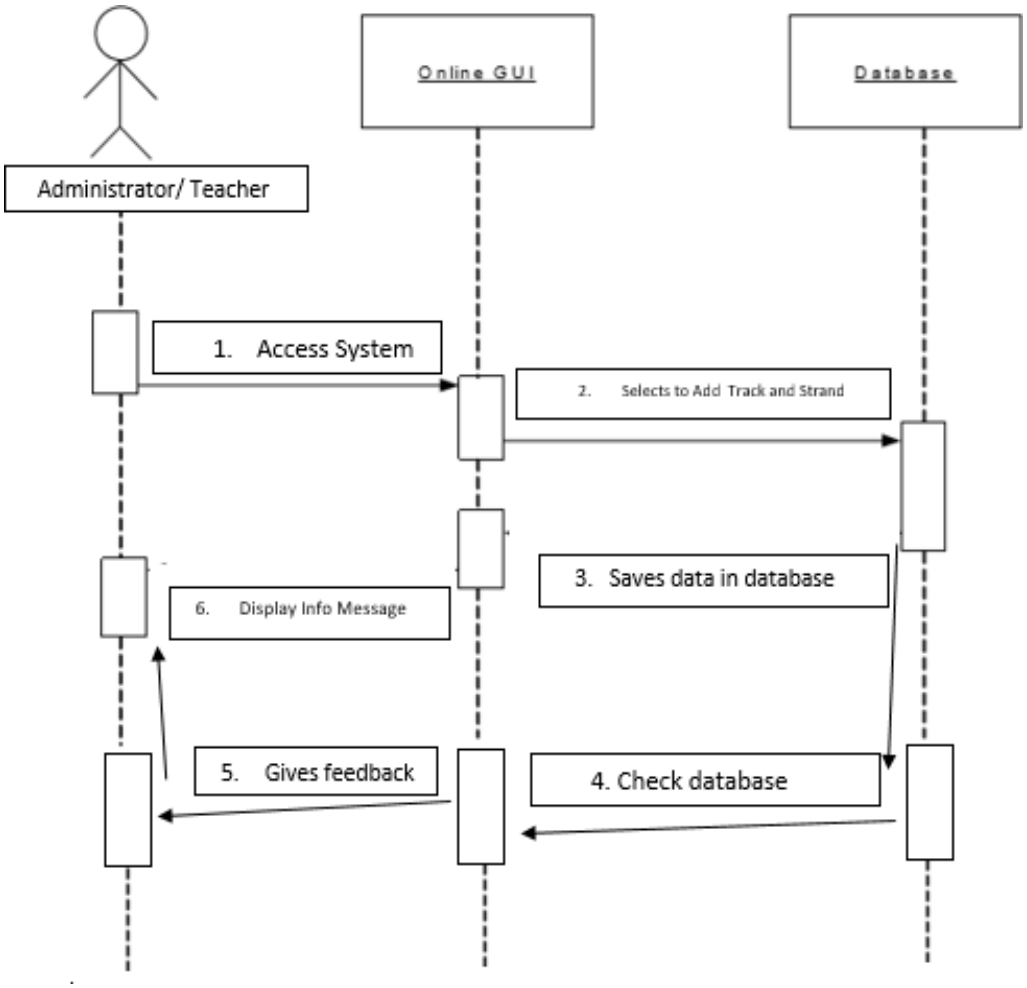

Figure 12. Sequence Diagram for Add Track and Strand

Figure 12 shows the sequence diagram for adding a track and strand in which it shows the order on how adding the track and strand works.

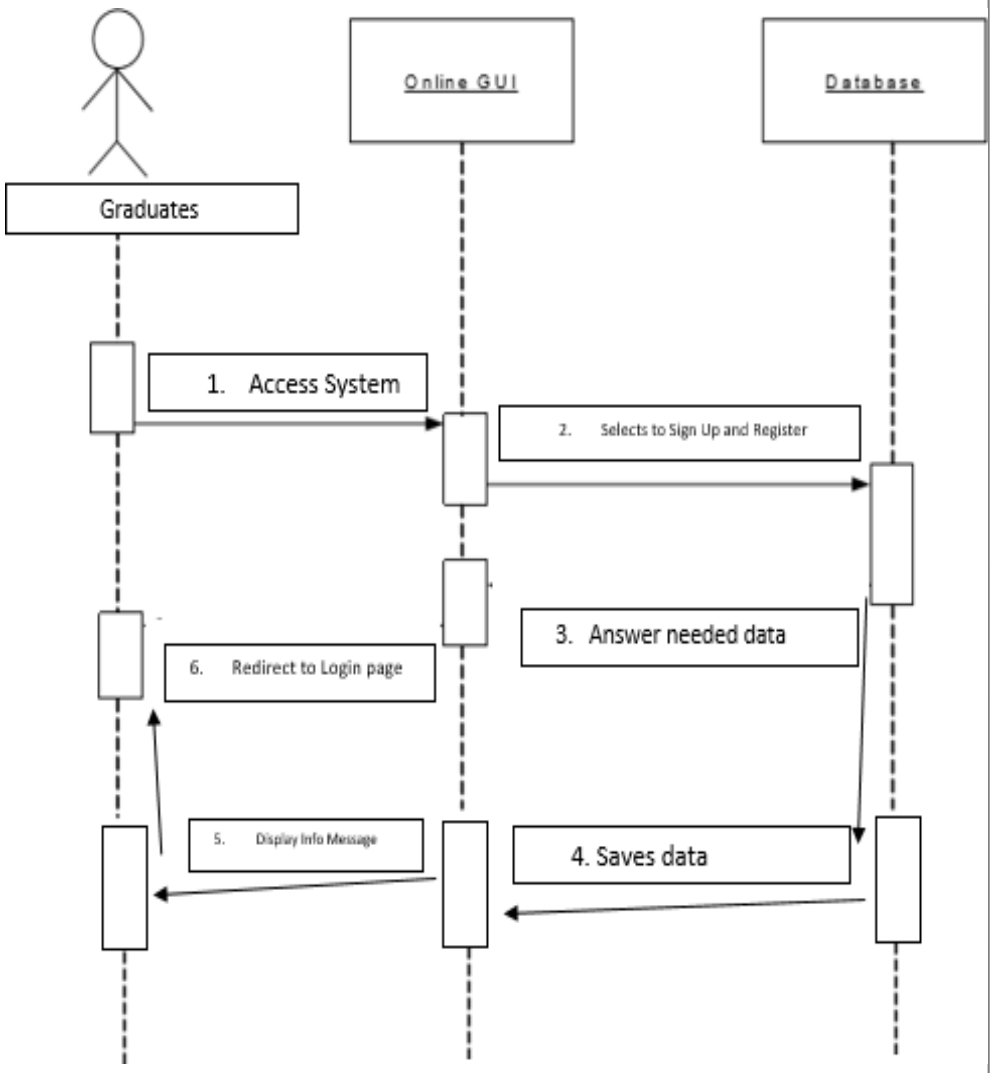

Figure 13. Sequence Diagram for Sign Up/ Registration

Figure 13 shows the sequence diagram for signing up and registration for the graduates and which it shows the order on how signup/registration works.

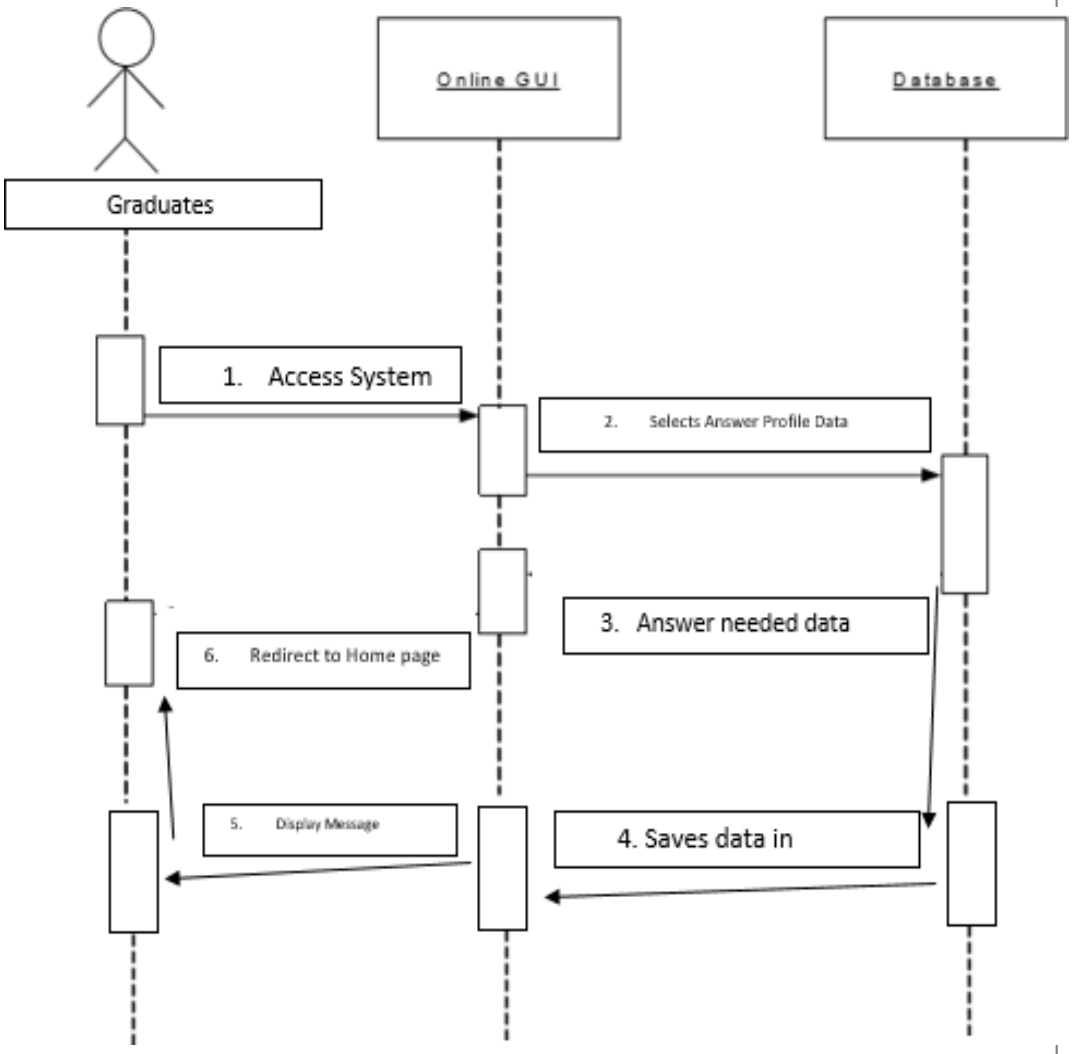

Figure 14. Sequence Diagram for Answer Profile Data and Survey Questions

Figure 14 shows the sequence diagram for answering the profile data and survey questionnaires for graduates in which it shows the order on how answer the profile data and survey questionnaires works.

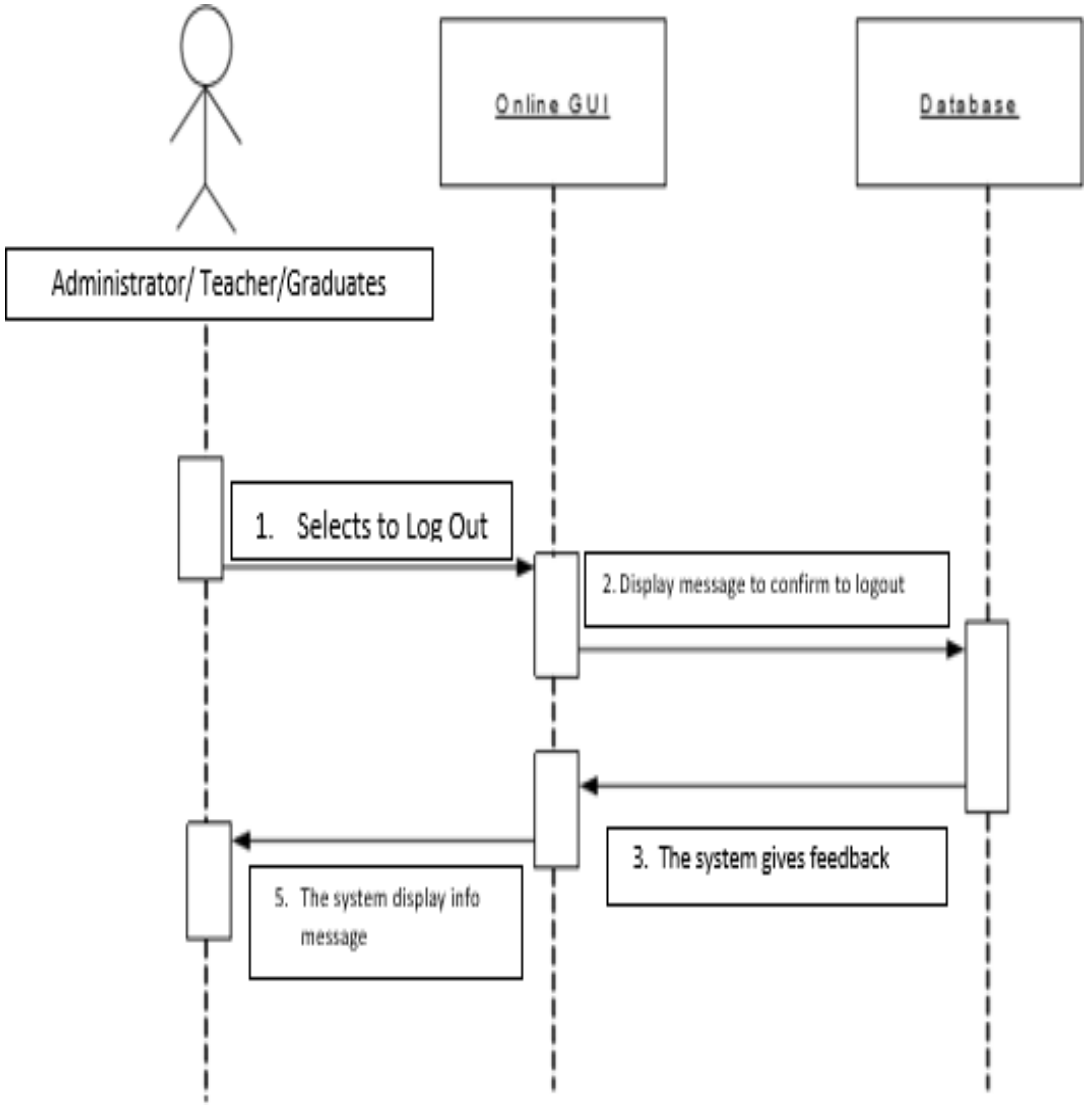

Figure 15. Sequence Diagram for Log Out

Figure 15 shows the sequence diagram for log out in which it shows the order on how to terminate the session works.

Activity Diagram

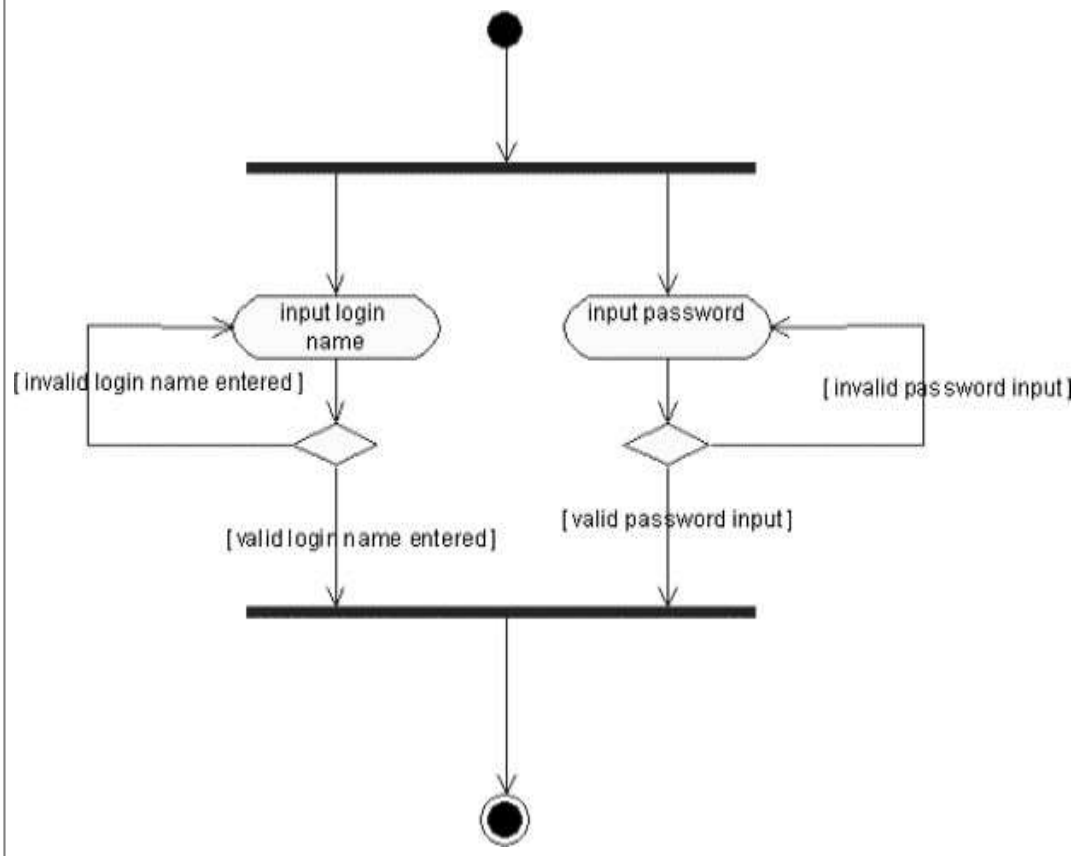

Figure 16. Activity Diagram for Log In

Figure 16 shows the activity diagram of logging in into the account per user. It also shows the activity if the user has inputted the correct and invalid id no and password.

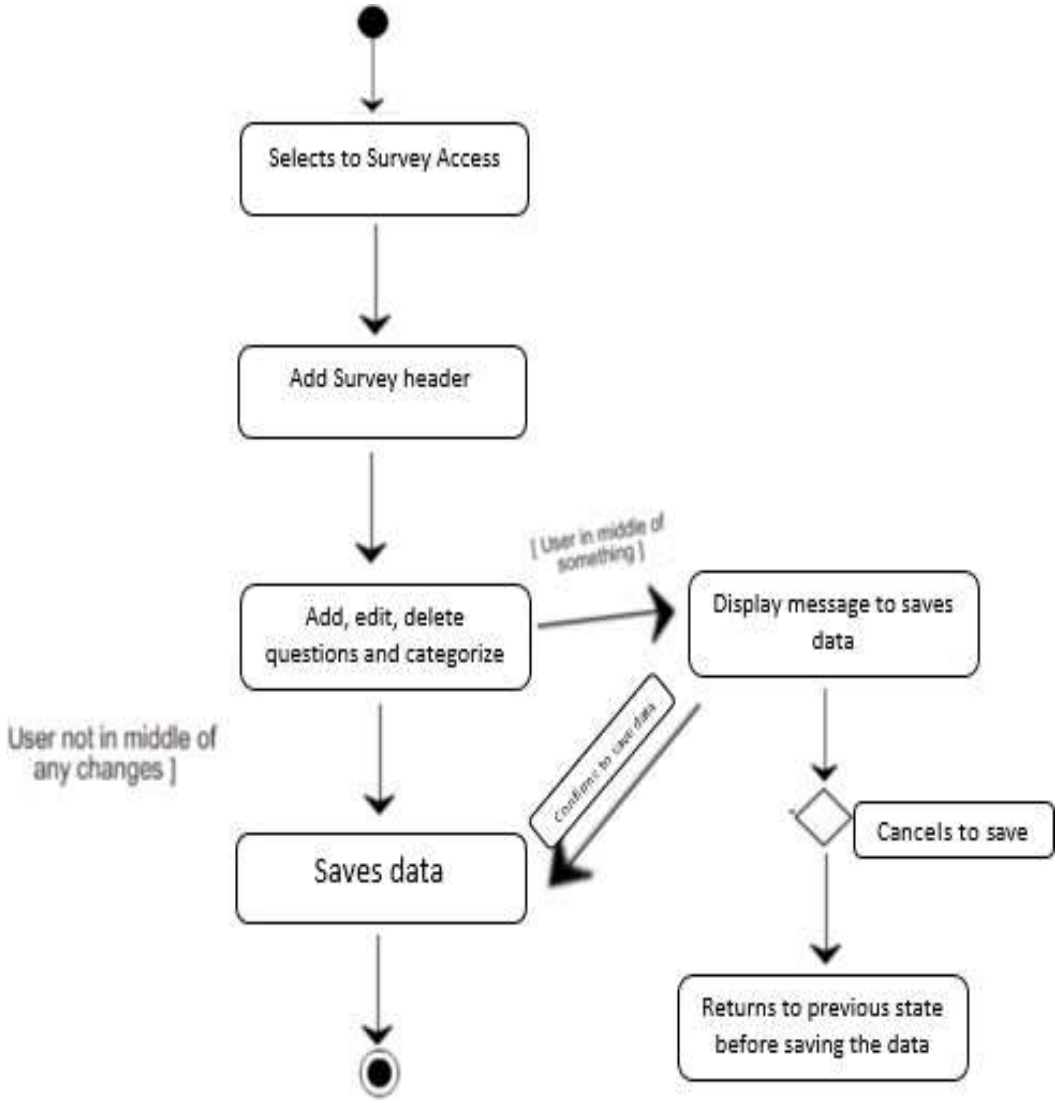

Figure 17. Activity Diagram for Survey Questionnaire Access

Figure 17 shows the activity diagram for survey questionnaire access. It shows the activity that will happen if the administrator/teacher access the button.

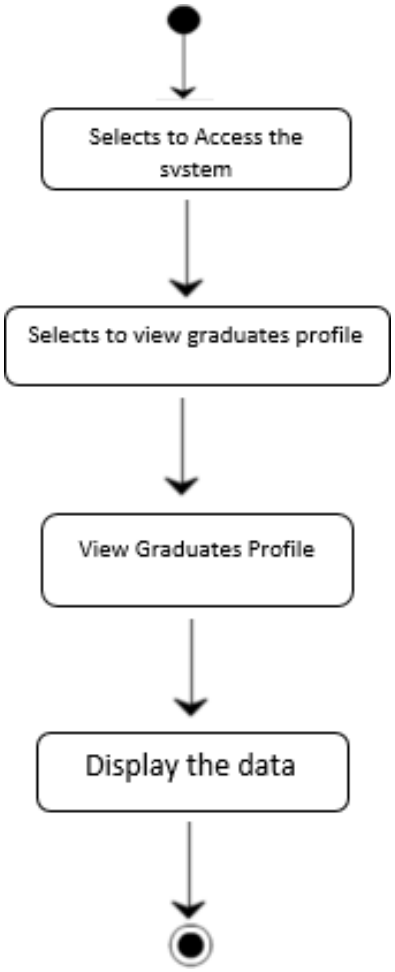

Figure 18. Activity Diagram for View Graduates Profile

Figure 18 shows the activity diagram for viewing the graduates' profile. In this diagram, it shows the activity what will happen.

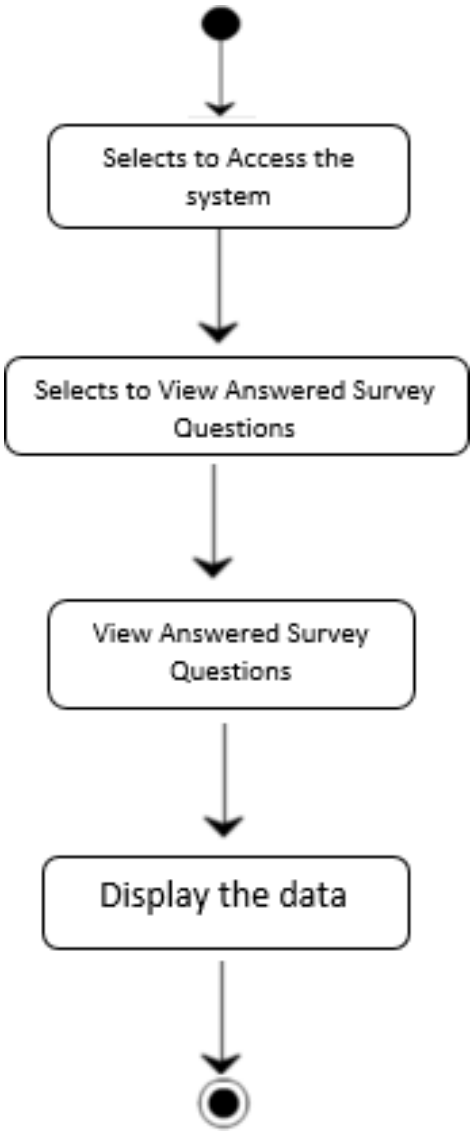

Figure 19. Activity Diagram for View Answered Survey Questions

Figure 19 shows the activity diagram for viewing the answered survey questions or the result of the survey. In here, the system displays the data that is stored in the database.

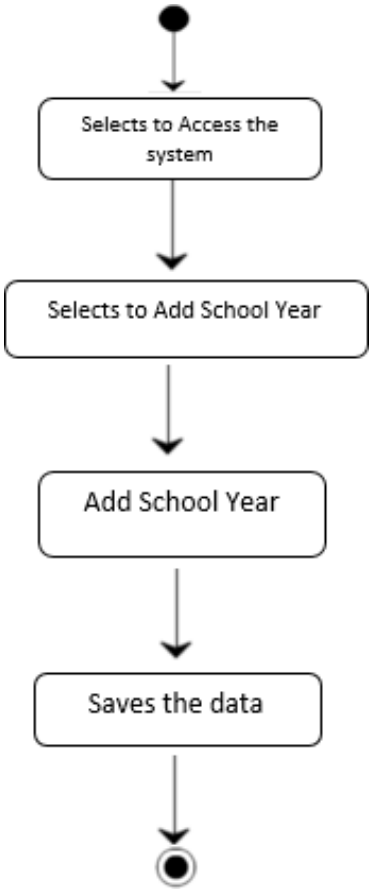

Figure 20. Activity Diagram for Add School Year

Figure 20 shows the activity diagram for adding a school year in the database. In here, it also shows the activity on how the system flows in adding a school year.

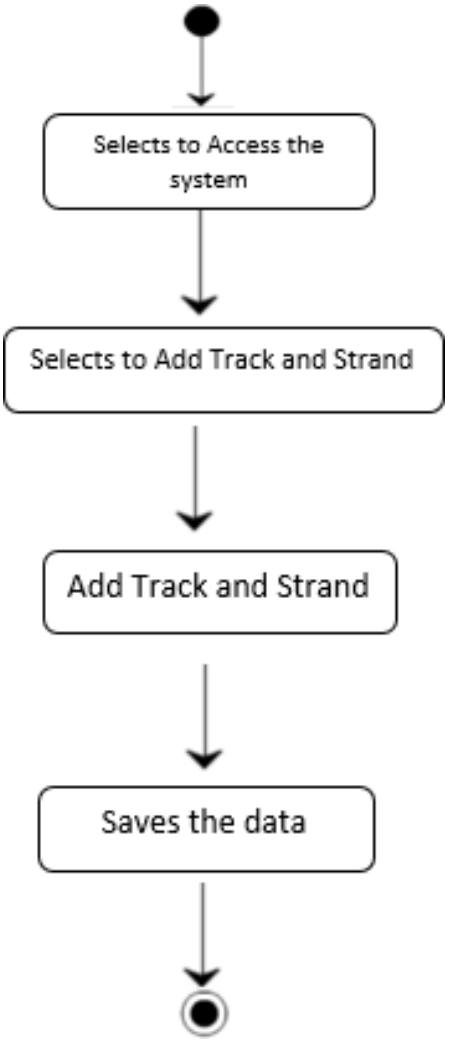

Figure 21. Activity Diagram for Add Track and Strand

Figure 21 shows the activity diagram for adding tracks and strands in the database.

In here, it also shows the activity on how the system flows in adding a tracks and strands.

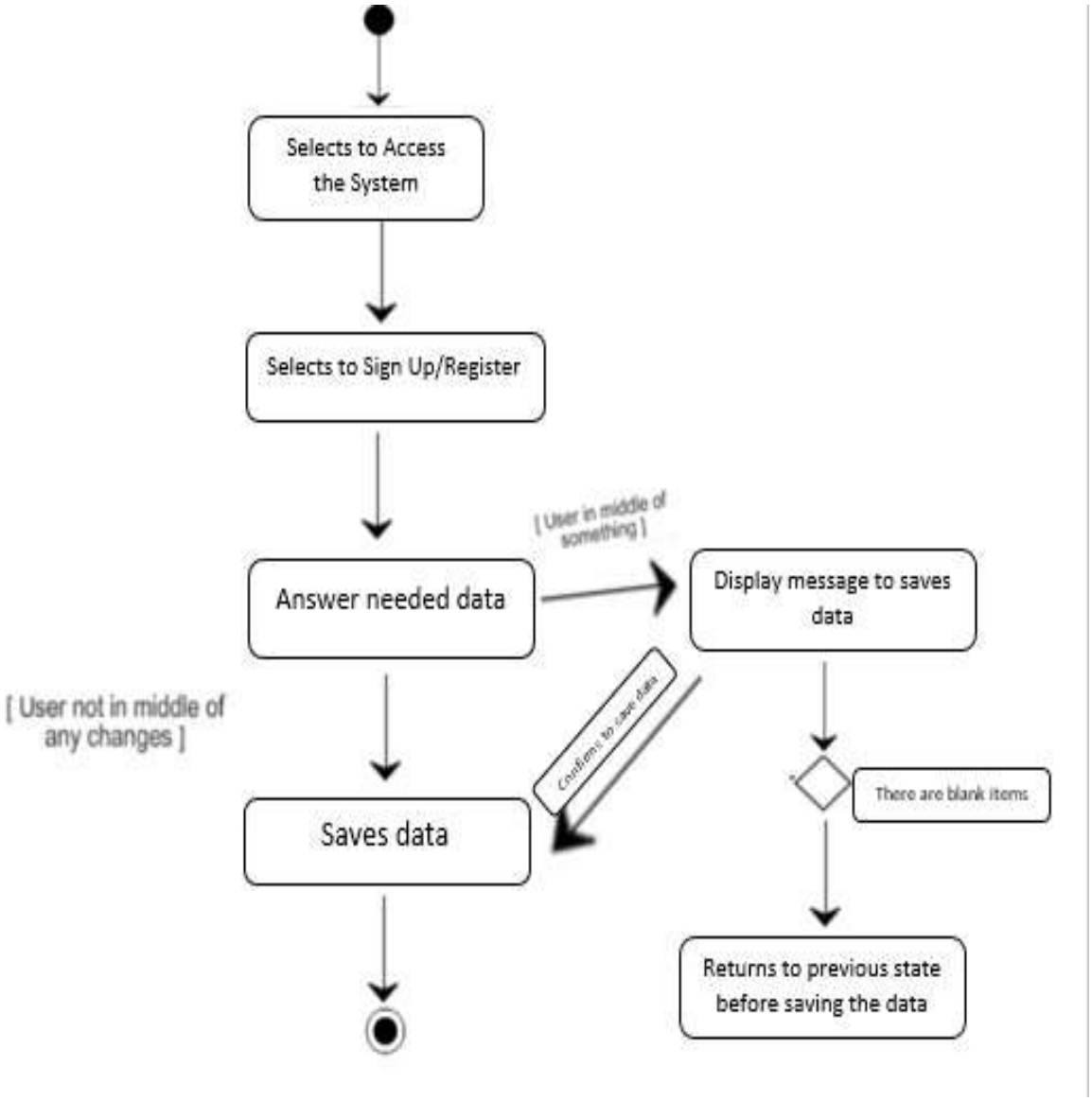

Figure 22. Activity Diagram for Sign Up/ Registration

Figure 22 shows the activity diagram for signing up and registration form. In here, it shows the activity on how the system flows if tha data is not complete, there will be a display message and it will go back to the form and should complete the data before saving.

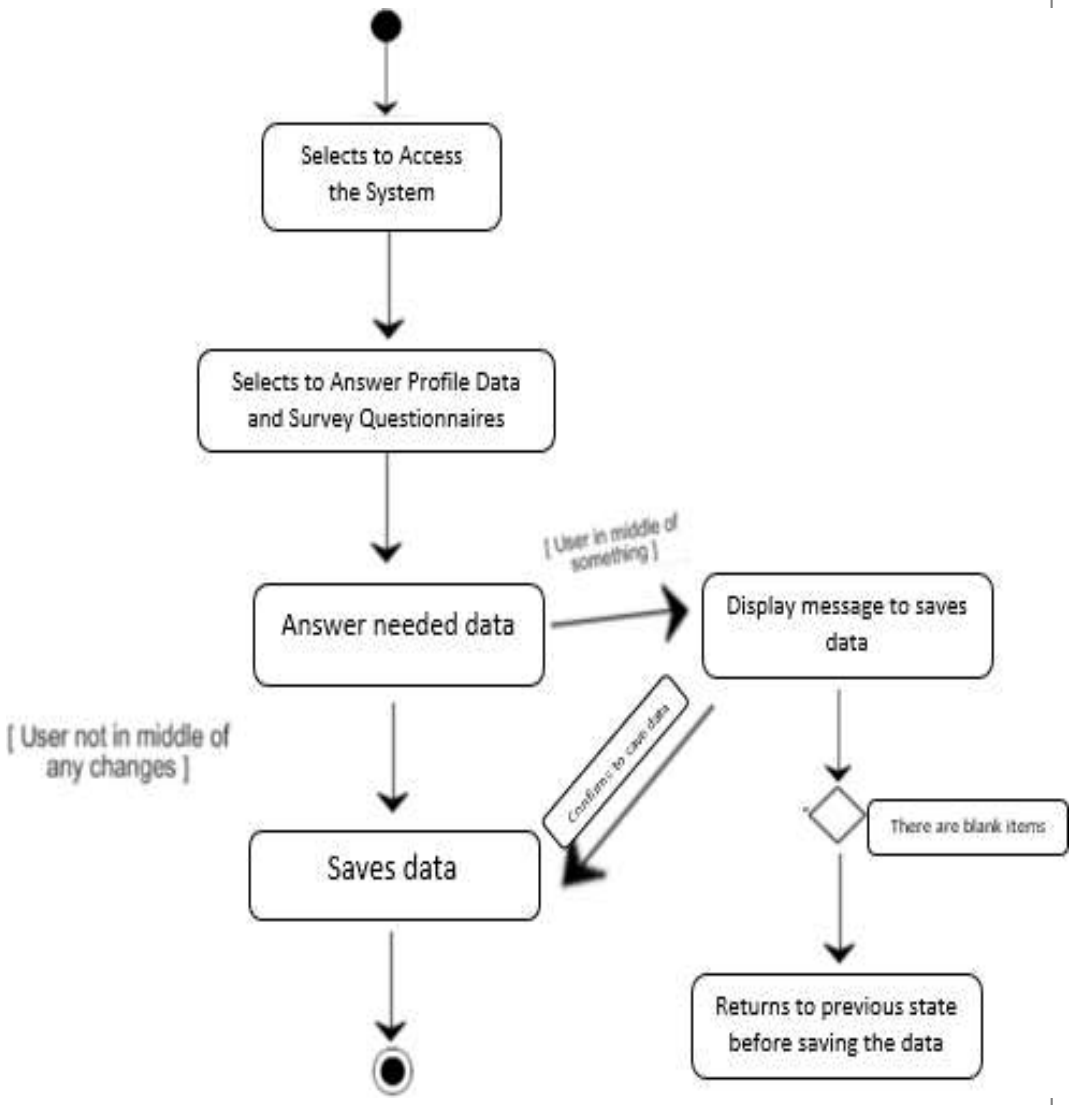

Figure 23. Activity Diagram for Answer Profile Data and Survey Questions

Figure 23 shows the activity diagram for answering the profile data and survey questions. In here, it shows the form for answering the profile of the graduates and answering the survey questions.

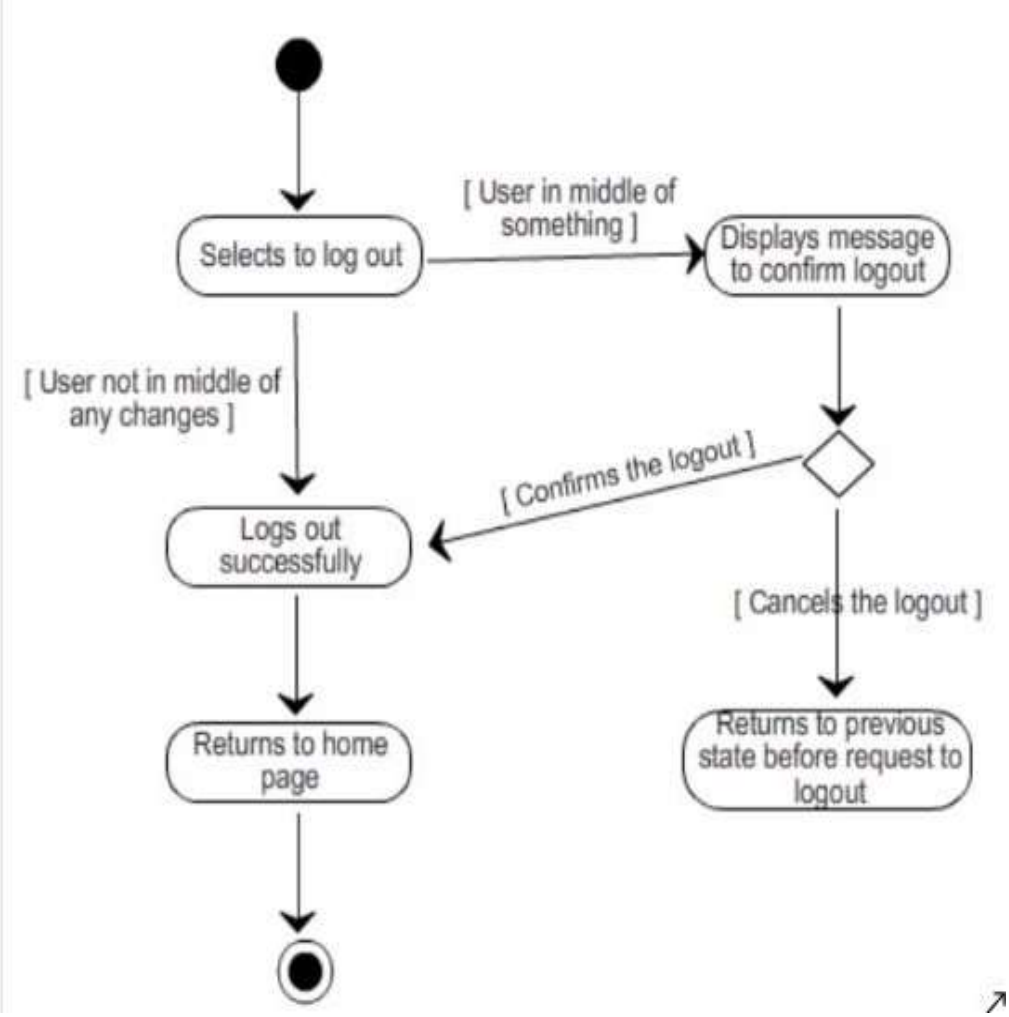

Figure 24. Activity Diagram for Log Out

Figure 24 shows the activity diagram for logging out into the specific account. It also shows the activity of how the system process and displays data.

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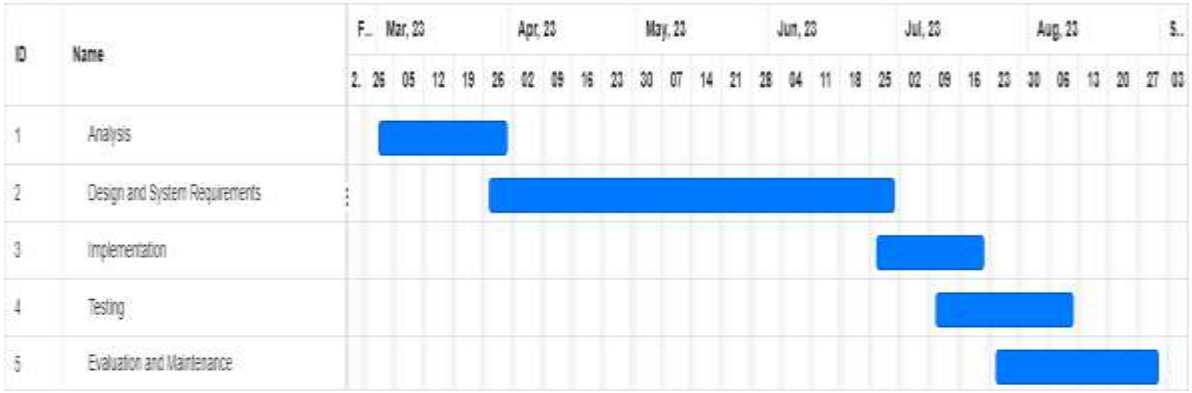
APPENDICES

APPENDIX D

TIMEFRAME



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Weight: 108 kgs

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