

1.0 INTRODUCTION

There is an outgrowing need for electronic accessories in a world where there is great necessity speed efficiency and perfection of work. Information factor of efficiency access to electronic devices and relevant information is usually considered in the setting up of a relational database for a local network. Intranet that is a private network set up by an organization or company that reassemble the www (World wide Web) but which is not accessible by external users.

The internet has revolutionized the computer and communications world like nothing before the invention of the telegraph, telephone, radio and computer set. The stage for this unprecedented integration of capability. The intranet is at once a location based broadcasting capability, a mechanism for information dissemination, and a medium for collaboration and interaction between individuals and their computers without regards for extensive location.

With the proposed design, staff, students and any authorized persons can get all the available information from the polytechnic internet integrated database. They can get their report, publication and award.

Furthermore, to brighten or bring out efficient and effective administration of academic information system like students and supervisor.

It will also help in making the processing of information as well as feedback more faster and also give focus to institution of higher learning on the facilities obtained in the use of modern system of communication.

Also, the aim of this project is to give a rough and ready introduction to database and its integration with http server. Before the specifics and theoretical as we focus on some of the more generic aspect of this study.

2.0 STATEMENT OF PROBLEM

Based on the research, there are several problems that gave rise to this study system from the continuous use of manual methods of dispensing academic details in the institution. The core is the information management. It can be seen that information is not only important in this stage but also the methods of accessibility.

Next problem, to eradicate this to its optimum, a robust database and web server should be implemented where the information can be shared easily among the students and also being kept so that it can be retrieved at any time by anybody who is in need of it. Again, it will make the information remain authentic without adding or removing anything.

Last problem is, lack of information regarding tour packages. Information regarding to package is refer to travel itinerary, price details and trip tentative. This information is vital to traveler because from that information, they will decide the best package among others. This problem refers to manual system whereby some of the package information is complete but some might be note. With the existence of this system, there are part where the organization need to complete travel trip information into the system and from that information, the system will generate the information into information table, so the user of the system will be able to view all of the information about that trip package.

The problems of the study are:

- The problem of being deformed in the society
- The problem of keeping untidy records.
- Using of manual in processing data.
- To determine ways which information can process a large volume of data such as academic and detail and repetitive denial work done with manual method in some information..
- The problem of managing information thereby accessing it to make something out of it.

3.0 DEVELOPER PROFILE



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Postgraduate Management System Developer

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OBJECTIVES

A committed and hard-working person with strong work ethic and has a strong desire to succeed in any role. A skillful and dedicate young person offering professionalism and excellent organizational ability. Fast learner with flexibility and adherence to following job description provided.

EDUCATION

SMK Panji, 16100 Kota Bharu, Kelantan

2013 SPM

5B 5C

Universiti Teknologi MARA, Machang, Kelantan

2017 Diploma in Information Management

CGPA 2.80

Universiti Teknologi MARA, Machang, Kelantan

Bachelor of Science (Hons.) Information System Management

Academic Qualification:

- Master of Science in Information Technology
- Bachelor Degree in Information Science (Hons) Information System Management
- Diploma in Information Management

Work Experience:

- Used to work as an admin at UiTM
- Had an experience as an IT expert at PETRONAS

Salary:

- RM 8,000.00

Roles and Responsibilities

- Analyzing user requirements
- Writing and testing code, refining and rewriting it as necessary
- Researching, designing and writing new software programs
- Evaluating the software and systems that make computers and hardware work
- Developing existing programs by analyzing and identifying areas for modification
- Integrating existing software products and getting incompatible platforms to work together

Skills:

- MS Word, MS Power Point
- HTML
- Adobe Photoshop
- HTML
- PhP

4.0 AIMS & OBJECTIVES OF THE PROJECT

Postgraduate Management System are developed in order to cope with the issues and problems mentioned above as well as to achieve this following objective:

4.1 To develop a platform for proper management of records as well aligned with National Archives Act 2003.

4.2 To minimize the time taken for approval process and provide timely and efficient tools for approval.

4.3 To develop tools to manage sharing information and interaction as well as creating a transparent environment between student and supervisor.

5.0 SCOPE AND LIMITATION OF PROJECT

Postgraduate Management System (PGMS) can be used by three different types of users which are student, supervisor and also for the administrator. Postgraduate Management System (PGMS) is developed in online method and web pages so the process can be done more systematic and efficient. In addition, Postgraduate Management System (PGMS) included so many great requirements and multiple functions suit for specific purposes.

5.1 Registration

First of all, Postgraduate Management System (PGMS) includes a function for registration which enables the users to register into the system as for the administrator, student, or the supervisor. This recorded all of the student information such as their personal information and details. After the users registered, all of their information will be kept in the database system, then the users can login into the system. However, for the supervisor, the administration is responsible to register the supervisor into the Postgraduate Management System (PGMS), they cannot register by themselves, only the students are able to register.

5.2 Add/Update/Delete menu

Secondly, Postgraduate Management System (PGMS) include the menu function. As for student, they can add a new report, publication and award. Not just that, the administrator can also update and add new supervisor for students. Plus, if student has no longer use the information, they can just simply delete the information. Hence, it will automatically be updated and delete in student interface also.

5.4 Approval

This function is provided for student and supervisor, which the supervisor can approval the reports such as the report that has student sent to the supervisor. On the other hand, the supervisor also responsible for monitoring the student.

5.0 MILESTONE & GANTT CHART

As a developer, it is important to plan for the miles stone and Gantt chart for the system. When it should start and when it should finish. This is also compulsory to avoid over budget when planning for the budget.

6.1 Milestone

- Concept definition – Week 1
- Information gathering – Week 2
- Proposal Writing – Week 3
- Storyboard Sketching – Week 4 - 6
- Development of System – Week 7 - 10
- Final Review – Week 11 - 13
- Submit Report and System- Week 14
- Final Presentation – Week 15

6.2 Gant Chart

Project / Timeline	Concept Definition	Information Gathering	Proposal Writing	Storyboard Sketching	Content development	Final Review	Submit Report and System	Final Presentation
Week 1								
Week 2								
Week 3								
Week 4								
Week 5								
Week 6								
Week 7								
Week 8								
Week 9								
Week 10								
Week 11								
Week 12								
Week 13								
Week 14								
Week 15								

Table 1: Project planning Gant Chart

7.0 ESTIMATED BUDGET AND COST REQUIRED

To develop a system, budget and cost require should be consider by the developer. Usually the budget and cost refer to the thing that will be used to accomplish this project. Its include hardware, software and even a programmer. As most people know, hardware and software is the most important thing to ensure the development of system is success. The budget and cost require for the system as shown in the table below:

NO	ITEMS	DESCRIPTION	PRICE
1.	Laptop	Acer Aspire E 14 Laptop	RM 2, 000.00
2.	Adobe Dreamweaver	Adobe Dreamweaver CS6	RM 150.00
3	Printer	Canon E500	RM 250.00
4.	Operating System	Windows 10	RM 410.00
5.	Notepad++	Notepad++ Version 7.5.6	No charge/Free
6.	Wamp Server Mysql Php	Wamp Server 64bit	No charge/Free
7.	Web Browser	Google Chrome & Internet Explorer	No charge/Free
Total			RM 2,810.00

Table 2: Estimated costs and budget.

8.0 HARDWARE & SOFTWARE DETAILS USE IN PROJECT

8.1 Hardware



HARDWARE		
Hardware	Specification	Function
<p>Laptop</p>  <p>Figure1: Acer Aspire E 14</p>	<p>Type: Acer Aspire E 14 Intel Core i5-4200U 1.7GHz NVIDIA GeForce GT 820M 2GB dedicated VRAM 4GB DDR3 L Memory 1000 GB HDD Windows 10 Single Language 64-bit</p>	<p>As a medium used to create the system, where without it, the system cannot be create</p>
<p>Printer</p>  <p>Figure2: Canon E500</p>	<p>Type: Canon E500</p>	<p>Used for printing in other to print support article, poster, user manual and others.</p>

Table 3: List of hardware

8.2 Software

ITEMS	DESCRIPTION	ESTIMATED PRICE
<p>Adobe Dreamweaver</p>  <p><i>Figure3:Adobe Dreamweaver logo</i></p>	<p>Adobe Dreamweaver CS6</p> <p>This software program used in designing web pages, more fully featured HTML web to create and edit web pages in a user-friendly environment.</p>	<p><input type="checkbox"/> RM 150.00</p>
<p>Notepad++</p>  <p><i>Figure 4: Notepad++ logo</i></p>	<p>Notepad++ Version 7.5.6</p> <p>Notepad++ used to write the coding languages in order to develop the system. Using Notepad++ is more attractive as it includes many interesting colors.</p>	<p><input type="checkbox"/> No charge/Free</p>
<p>Wamp Server</p>  <p><i>Figure 5: Wamp server logo.</i></p>	<p>Wamp Server 64bit</p> <p>Wamp is used for the web development and in order to test the PHP language to successfully create the system.</p>	<p><input type="checkbox"/> No charge/Free</p>



<p>MySQL Server</p>  <p><i>Figure 6: MySql server logo.</i></p>	<p>MySQL Server 5.5.29</p> <p>The MySQL functions allow the developer to access MySQL database servers. For the MySQL functions to be available, the user must compile PHP with MySQL support.</p>	<p><input type="checkbox"/> No charge/Free</p>
<p>Operating System</p>  <p><i>Figure 7: Window 10 logo</i></p>	<p>Windows 10 Professional</p> <p>Windows 10 Professional is an operating system that is installed in the PC and laptop to develop the system.</p>	<p><input type="checkbox"/> No charge/Free</p>

Table 4: List of software

9.0 SYSTEM FLOWCHART & DIAGRAMS

9.1 Login flowchart

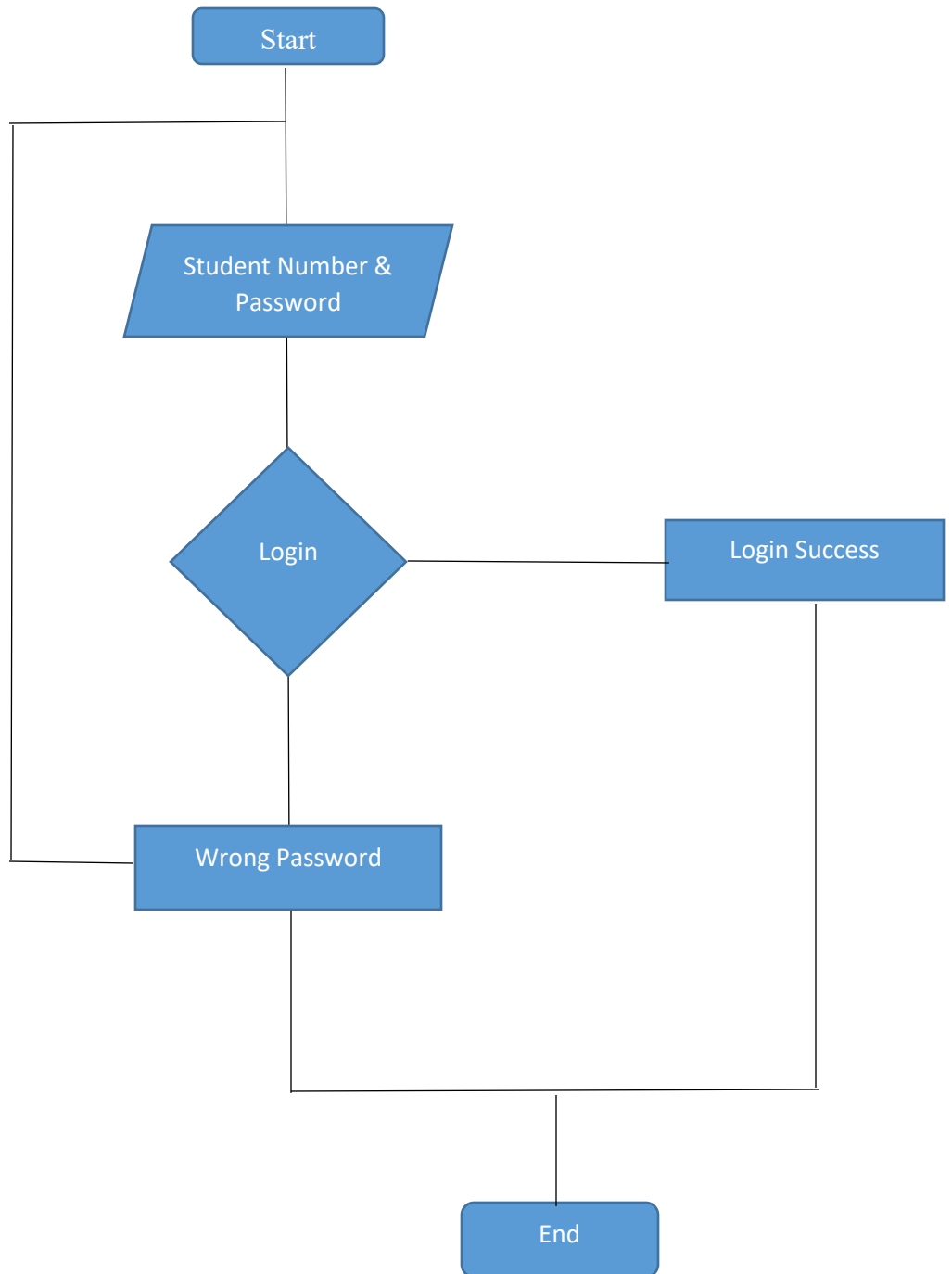


Figure 6: Flowchart for Login

9.2 Register flowchart

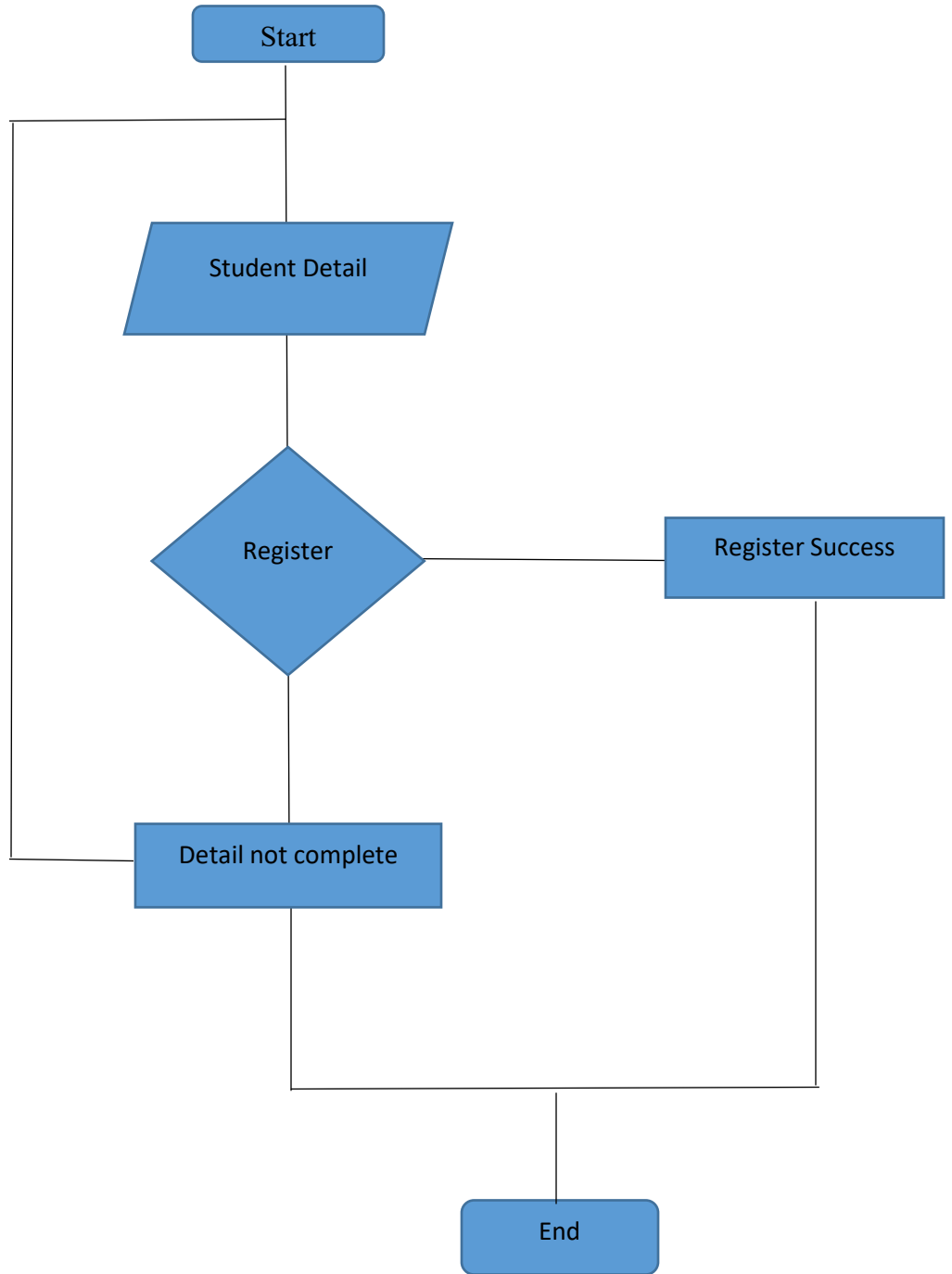


Figure 7: Flowchart for Register

9.3 Entity Relationship Diagram

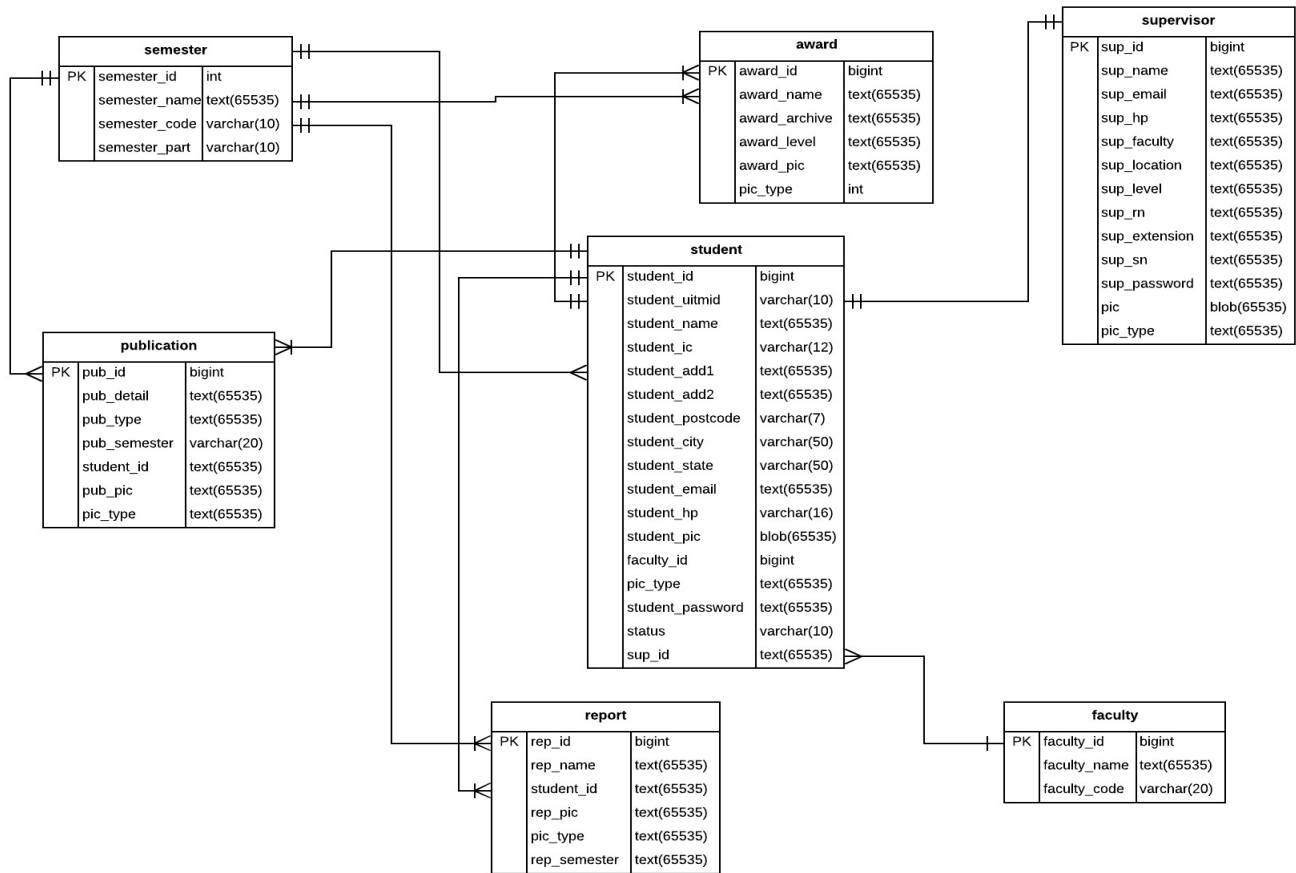


Figure 8: Entity Relationship Diagram For The System

10.0 STORYBOARD

10.1 Storyboard

- Login interface

LOGIS TO PGMS

The storyboard for the login interface is contained within a rectangular frame. At the top center, the text "LOGIS TO PGMS" is displayed. Below this, a large yellow circle contains the word "LOGO" in bold black letters. Underneath the logo are two horizontal blue input fields. The first field is labeled "Student Number" and the second is labeled "Password". At the bottom left of the frame, the text "I forgot my password" is present. At the bottom right, there is a blue button with the text "Sign in".

Figure 9: Login Interface

- Register interface.

Register a new membership

The storyboard for the register interface is contained within a rectangular frame. At the top center, the text "Register a new membership" is displayed. Below this, there are six horizontal blue input fields stacked vertically. From top to bottom, they are labeled: "Full Name", "Student Number", "Faculty", "Email", "HP", and "Password". At the bottom left of the frame, there is a blue checkbox followed by the text "I agree to the term". At the bottom right, there is a blue button with the text "Register".

Figure 10: Register Interface

➤ Student interface

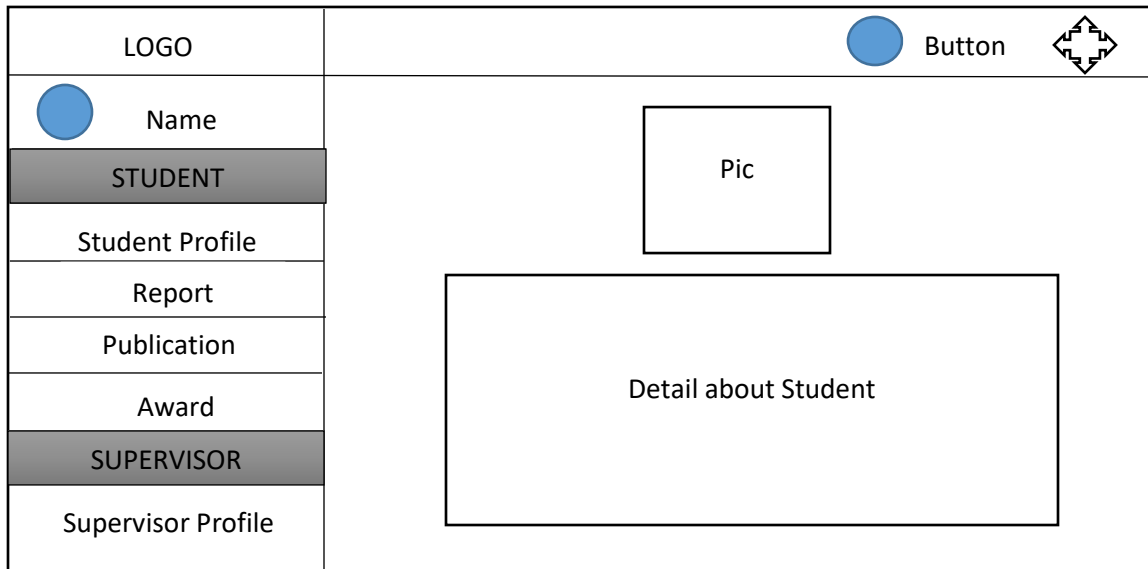


Figure 11: Student Interface

➤ Supervisor interface

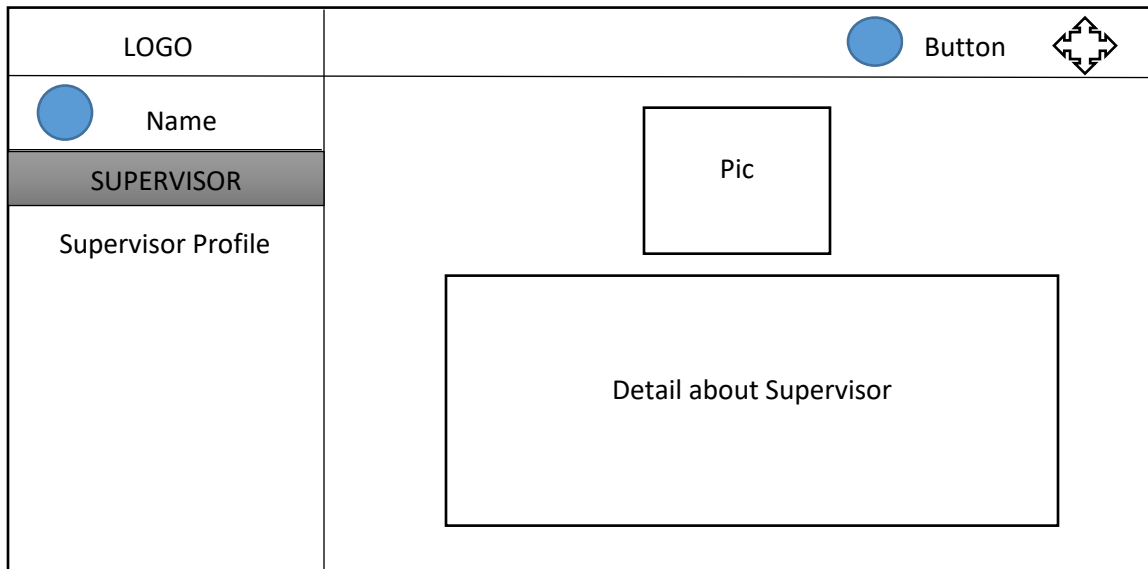


Figure 12: Supervisor interface

➤ Administration interface

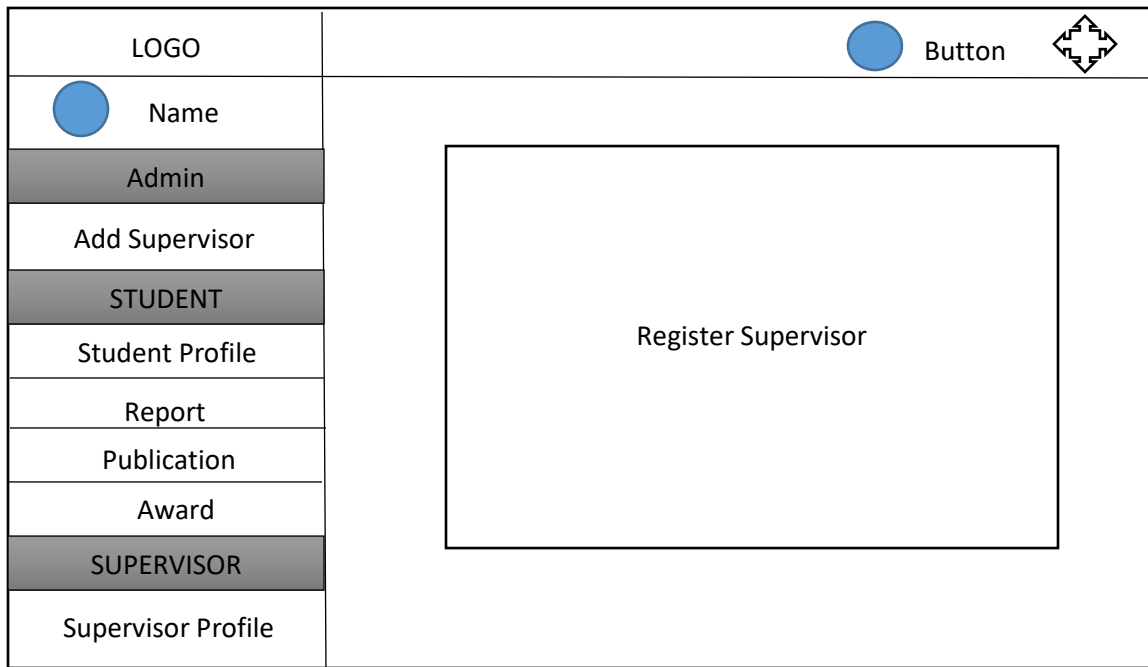


Figure 13: Administration Interface

11.0 NAVIGATION DIAGRAM

a) Student Navigation

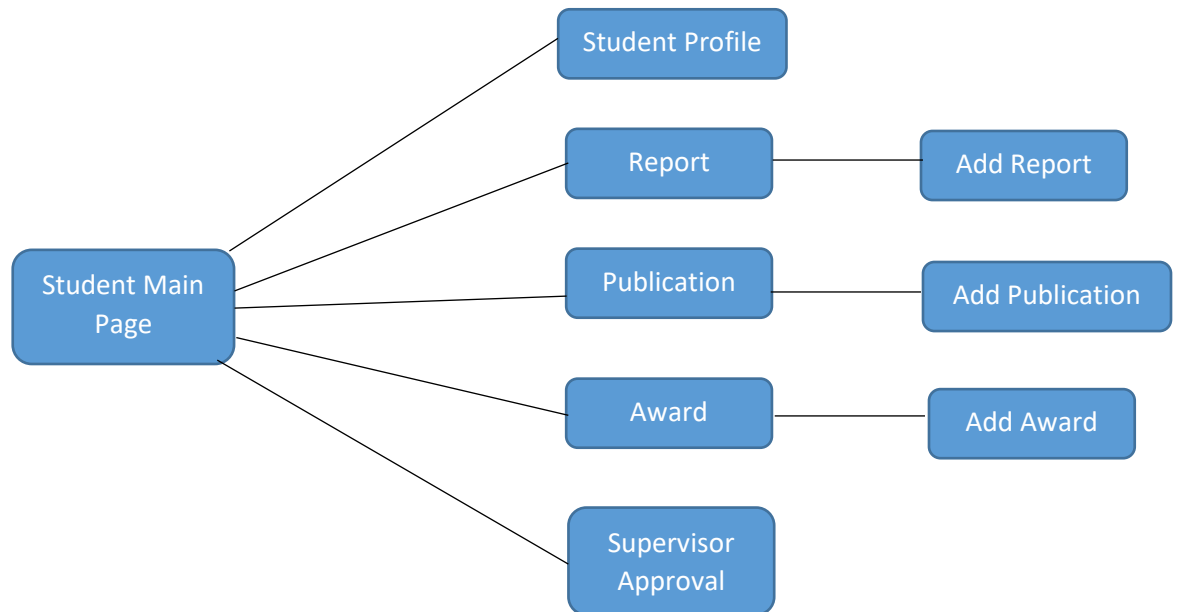


Figure 14: Student Navigation Process

b) Supervisor Navigation

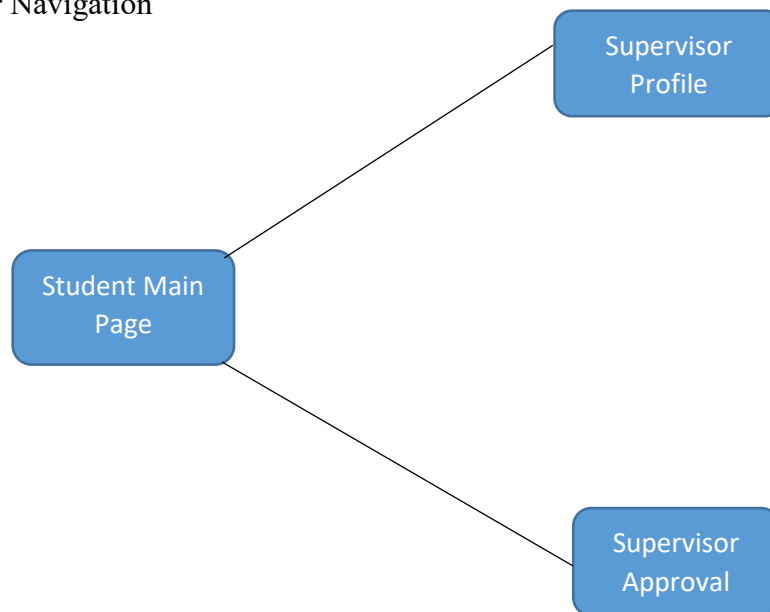


Figure 15: Supervisor Navigation Process

c) Administration Navigation

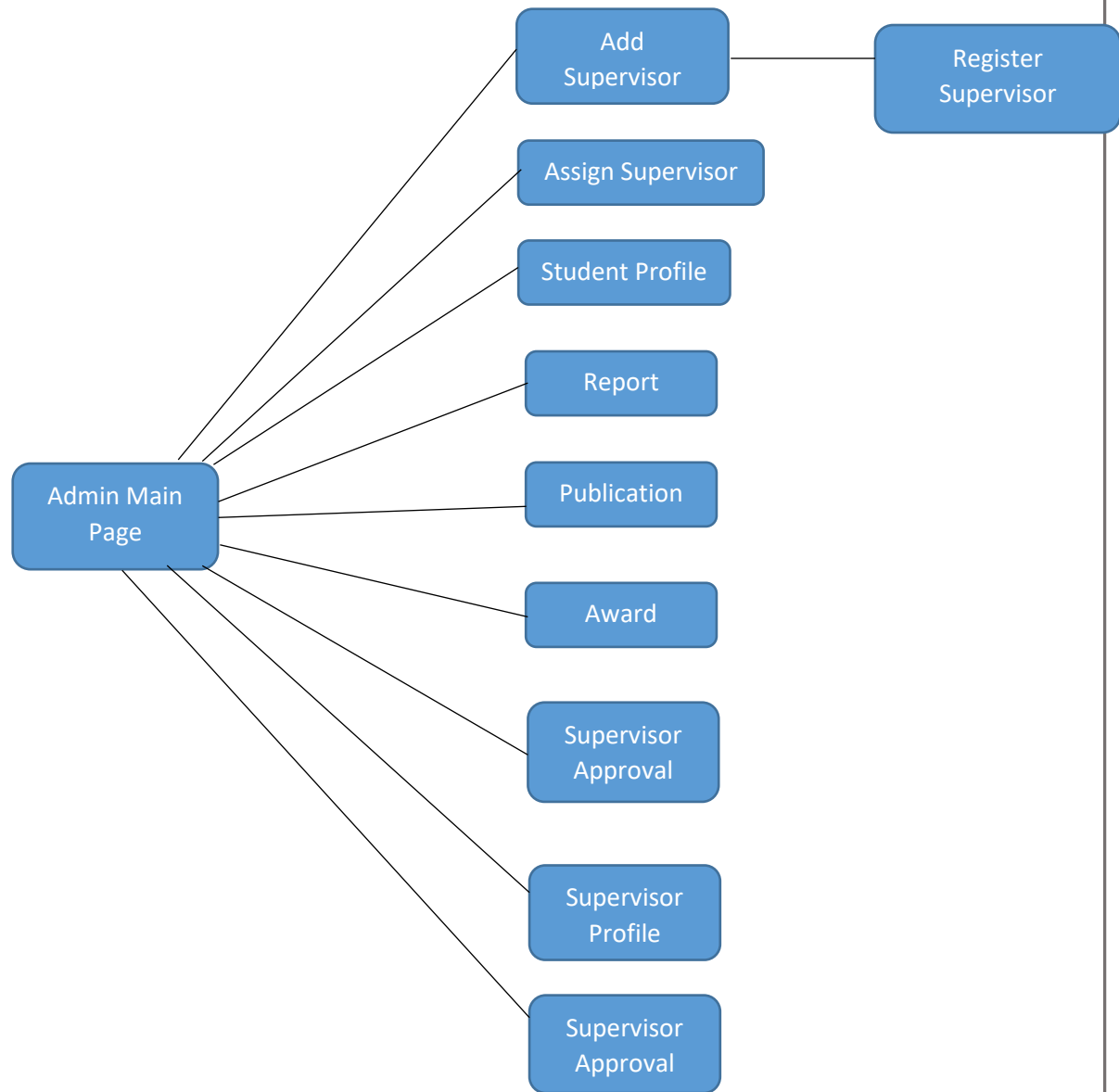


Figure 16: Administration Navigation Process

Conclusion

The need for available secure and reliable information solution is heightened by the increasing dependence on web like systems and database technologies to provide educational services, develop efficient academic products, administer daily activities and perform both short and long term management functions. Using Postgraduate Management System of technology as a case study, this project has elaborated on the technical and operational requirements of developing an academic information system. Issues on web and database concept and technologies, analysis and design tools, security and content maintenance were adequately explained, database and dynamic web page scripting are the communication means to live information content.

REFERENCES

(Mohd Rahimi Mohd Rosman, personal communication, December 13, 2018)