PROTECHNIC WEBSITE DEVELOPMENT FOR RENTAL OF PROPERTY & TRANSPORTATION AMONG POLITEKNIK SHAH ALAM STUDENTS

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DIPLOMA IN INTERNATIONAL BUSINESS

SUPERVISOR - PUAN NURFADILLAH BINTI AHMAD MAHMMUD

SESSION 1 – 2022/2023

POLITEKNIK SULTAN SALAHUDDIN
ABDUL AZIZ SHAH

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A project report submitted in partial fulfilment

of the requirement for theaward of Diploma in

International Business

COMMERCE DEPARTMENT

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DECLARATION OF ORIGINALITY

TITLE: **PROTECHNIC WEBSITE DEVELOPMENT FOR RENTAL OF PROPERTY & TRANSPORTATION AMONG POLITEKNIK SHAH ALAM STUDENTS**

SESSION: **1 2022/2023**

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We verify that this project and its intellectual properties are our original work without plagiarism from any other sources.

We agree to release the project's intellectual properties to the above said polytechnic in order to fulfil the requirement of being awarded **Diploma in International Business.**

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ABSTRACT

Online rental property platforms like Trivago, Trip Advisor, Air BnB and Expedia are widely available. Finding the same recommendation website for a rental property is very challenging, and typically the owner does not advertise their home online but instead promotes it to the locals. Problems emerge when it's difficult to find a local rental property that's close to the university. The student typically goes outside and requests the resident. For the duration of the semester, it will take a long time for students to secure housing. Thus, this study develop a platform that will assist students at Politeknik Sultan Salahuddin Abdul Aziz Shah (PSA) in finding housing in order to resolve this issue. Questionnaire was conducted to survey the level of students' satisfaction in using the website as an information sharing tools.

ABSTRAK

Platform rumah sewaan dalam talian seperti Trivago, Trip Advisor, Air BnB dan Expedia tersedia secara meluas. Mencari tapak web cadangan yang sama untuk harta sewa adalah sangat mencabar, dan biasanya pemilik tidak mengiklankan rumah mereka dalam talian sebaliknya mempromosikannya kepada penduduk setempat. Masalah timbul apabila sukar untuk mencari hartanah sewa tempatan yang berdekatan dengan universiti. Pelajar biasanya pergi ke luar dan meminta penduduk. Untuk tempoh semester, ia akan mengambil masa yang lama untuk pelajar mendapatkan perumahan. Justeru, kajian ini membangunkan satu platform yang akan membantu pelajar di Politeknik Sultan Salahuddin Abdul Aziz Shah (PSA) mencari tempat tinggal bagi menyelesaikan isu ini. Soal selidik juga telah dijalankan untuk meninjau tahap kepuasan pelajar menggunakan laman web sebagai alat perkongsian maklumat.

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CHAPTER 1 – INTRODUCTION

1.1 INTRODUCTION

The depiction of the study's background, problems statement, objective, scope, significance, operation definition, and SWOT analysis would make up this chapter. The program's applicability for the particular institution and how it will be implemented in accordance with the course's requirements.

What is a website? As you know website is a group of webpages that share a common domain name. These websites typically include items like text, images, and videos as well as information about the company or group. To visit a website, users require a web browser-equipped device, such as a laptop, smartphone, or tablet, as well as an Internet connection. Once they have those, visitors can enter the website's address in the web browser's address bar to access it. For your information, websites are created with several objectives in mind. Among the justifications for creating a website are like informational provision. There are numerous websites that offer information. For instance, government and company websites update users on developments within their respective offices or businesses, while news websites inform readers of the most recent events globally. Other than that, it's also entertaining to watch movies and television series, listen to music, or play games on websites like Netflix and YouTube. For user interaction, a social networking sites and forums enable connections, communication, and idea sharing amongst users. Purchasing and selling goods online is possible because to e-commerce platforms like Amazon and eBay. It's also a showcasing work where the personal and portfolio websites are places where a person can present their past work to potential clients in order to showcase their skills (Anderson, 2022).

1.2   BACKGROUND OF STUDY

Even though technology is growing more potent and is now present in every industry, the housing sector is still on guard to meet the challenges of change by using a fresh approach that makes it simple to manage rental homes, paying visitors, hostels, and apartments. This project proposal deals with online housing, lodging, and transportation for all of the residents. If a renter searches physically today, it is quite difficult for them to obtain acceptable housing and transportation for a livelihood. The administration of residential rentals has emerged as a crucial element in today's society. It can offer the resources from any location to help people discover a suitable living space in accordance with their preferences.

The system's major tenants are landlords and tenants, and its primary goal was to give tenants an easy method to find the house they wanted in the neighbourhood they wanted. Anyone can use the location, type, and city search to find their ideal solution from anywhere. Both tenants and owners are allowed to log in. To rent his residence, he or she might get in touch with the administration or the buyer. He/she may contact with the administrator or the purchaser to rent the property. Owners of property and vehicles must first register before they can post a home or vehicle with photos, a price range, other information, and a brief description. This information will only be added and displayed on the website after being verified by the website administrator; otherwise, it may be disregarded. And whether or not his post is accepted, the owner or merchant will be notified by email. Users with wide access or who are not registered on the site can examine the rental information and get in touch with the owners. In this instance, it will prevent unnecessary money waste, lessen tension, and save crucial time. For the aforementioned reasons, this arrangement makes renting a home and a vehicle simple. This website will assist students moving to a new city who are struggling with the question of "Where to stay in a big city?" by making it simple for them to locate boys' or girls' properties at reasonable prices and obtain the owner's contact information. They can finally come to an agreement that serves the interests of all parties without having to deal with property & transportation brokers. Our goal was to make these people's life simpler and less complicated by just clicking   while   they

were at home, especially for single individuals or bachelors who have a difficult time finding housing because most landlords don't want to rent to them. Users can also use a moving and packing service, which will assist in delivering their furniture and valuables safely to their destinations (Paul, 2022).

The following limitations of the research are provided in this study so that it can be carried out with more focus and produce the best possible results.

1) EditorX software is used to build website. ProTechnic is the website for Politeknik student to find rental property & transportation.

2) Politeknik Shah Alam is the only area for which this research is aimed. This is because based on the sample Politeknik student find a difficulty to find accommodations nearby Politeknik Shah Alam.

3) Also, student cannot rely on public transportation due to inefficiency schedules and heavy traffic (Johanna Alonso, 2022).

4) This method does cover fund leasing operations that are related to renters and rented owners both directly and indirectly.

The following can be used to create the goal of the investigation conducted for the website that offers details on leased homes in Shah Alam.

1) To make it simpler for people looking to rent housing that matches their budget and desired amenities.

2) To make it simpler for students to advertise or provide information about their rentals.

3) Using the data, the system provides to assist tenants in finding rentals.

The following are the advantages of conducting research on the website that offers details on rental properties in Shah Alam.

1) It facilitates renters' access to numerous details regarding rental properties in Shah Alam.

2) Facilitates the rental owner's ability to market his rental property.

1.3 PROBLEM STATEMENT

The topic of housing is crucial to address since the distance between residences near to the institution can support study activities and other campus activities. Aside from the distance from campus, other factors to consider when selecting a rental house to rent include pricing, room size, and the facilities offered to encourage student productivity and comfort. Problems encountered by students looking for rental house include ignorance of the location of the rental housing and the price range in the area around campus. However, some rental housing owners are unaware of the price range of rental housing nearby because they do not view the survey results or hunt for information on rental fees in the area. In general, there are many different rental housing rivals with a variety of and competitive rental pricing, especially if the rental housing is situated in the near of the campus (Wahyu et al., 2021).

With students entering University and Polytechnic soon, fraud or 'scammers' are using the tactic of spreading fake rental house ads before making a profit from deposit payments. They advertise a non-owned house for rent in a somewhat strategic housing area close to the college or polytechnic. In the first seven months of the year, online fraud had the highest number of losses in the county when compared to other fraud crimes, with victims as young as 18 years old. According to Muallim District Police Headquarters (IPD) records, a total of 26 criminal cases involving a total loss of approximately RM266,700 was reported between January and this month (Berita Harian, 2022).

For those without a car, particularly students, traveling anywhere might be challenging. While some students are fortunate enough to be able to go to the University without driving or taking public transportation, others do not. Students that attend University experience a variety of issues. Students who take the bus or subway, for instance, possibly miss it or the bus is not show up on time. These students also have to face hot or rainy weather while waiting for public transportation that might took too long to arrive. Realizing this, design a website platform for rental house as to provide housing information that is

useful for tenants, as well as owners to advertise the rental house on the website effectively, and up-to-date. A house reservation feature on the Rented House Information Provider website makes it simpler for potential renters to rent a home without having to go outside and search for the rent house (Sidik et al., 2022). Also, students can use car rental to solve these problems (Kamaruddin & Rozlis, 2019).

Cognitive limitations in user information processing result in lost users in the information environment and inefficient decision-making. In recent years, website personalization has emerged as an effective solution to the problem of information overload (Desai, 2018).

Based on Statista.com, variety of website design has been introduced. As of December 2020, Wix was the leading website builder technology in Malaysia, with 428 websites using its technologies. Wix is a cloud-based website builder that allows its users to create HTML5 websites and mobile sites by using drag and drop tools.
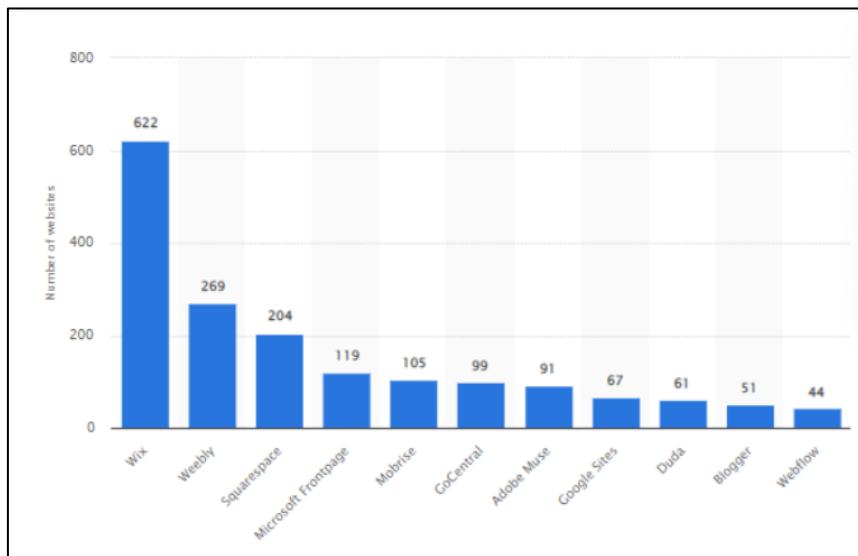
Figure 1 Graph of statistics on Leading website builder technologies Malaysia 2020.

Sources: Muller,2021.

1.4 RESEARCH OBJECTIVE

This study aimed at the development of the students using website to find their rental of property and transportation in Shah Alam. These are the main objectives of the research: -

1) To develop a website for information sharing of rental among PSA students
2) To identify students' satisfaction level in using the website as information sharing for rental platform

RESEARCH QUESTIONS

This study aimed what are the effect and the satisfaction of the students using website to find their rental of property and transportation in Shah Alam. These are the main questions of the research: -

1) What are the tools to develop a website for information sharing of rental among PSA students?
2) What is student's satisfaction of the website as information sharing platforms?

1.5 SCOPE OF THE STUDY

The scopes for this project are identified to make the website development process easier. The scope will be explained about student's aspect of view and website function.

Currently, all information on rental properties including house details, booking information, and payment information, is recorded manually. The information about the students and the house will be easier to lose by following the current procedure. Other than that, the student does not pay the rental residence on a regular basis because they are unable to do so via an online payment system. In order to solve this issue, a website called rental property website system has been suggested.

Once a student logs in, three forms which is housing form, a rent payment form, and a tenant's registration form automatically appear on the website. There are multiple command buttons on each form including new, save, cancel, delete, next, previous, and exit. The command buttons allow student to modify the database. All student need to do to add data to the database is click on new, enter the data in the textboxes supplied, and click save. The data will then be saved automatically. Student only need to click next or previous to see the data in the database if you wish to view it. It can erase any record that want by clicking the delete button.

1.6   SIGNIFICANCE OF THE STUDY

The value of this study to the institution, the society, and the body of knowledge makes it crucial that it be conducted. The study's implementation opens up a host of brand-new research opportunities for this polytechnic's academic staff and students to investigate. This chance ought to be viewed as a benefit the institution will receive in the future.

This project will help students easily find their own accommodation through website. This is because everyone needs a place to sleep, but students in tertiary institutions and those who have travelled from other locations to attend their class especially in need.

Other than that it can makes navigation easy. As you know websites such as online auto parts businesses that obligated to provide more navigational alternatives for students in finding information sharing of rental

It will also protect students from scams. Scammers list a rental at an attractively lower price. They offer you photos but will never agree to show the property in person or virtually. The scams will ask you to send money or a check to secure the property before no one else takes it.

1.7 SWOT ANALYSIS

The SWOT framework is credited to Albert Humphrey, who tested the approach in the 1960s and 1970s at the Stanford Research Institute. SWOT analysis was originally developed for business and based on data from Fortune 500 companies. It has been adopted by organizations of all types as a brainstorming aid to making business decisions. SWOT analysis is a framework for identifying and analysing an organization's strengths, weaknesses, opportunities and threats. These words make up the SWOT acronym. The primary goal of SWOT analysis is to increase awareness of the factors that go into making a business decision or establishing a business strategy. To do this, SWOT analyses the internal and external environment and the factors that can impact the viability of a decision. Businesses commonly use SWOT analysis, but it is also used by non-profit organizations and, to a lesser degree, individuals for personal assessment. SWOT is also used to assess initiatives, products or projects. As an example, CIOs could use SWOT to help create a strategic business planning template or perform a competitive analysis (Bigelow et al., 2022).

Strengths	Weaknesses
- Strong and professional branding - User-friendly design and navigation - Relevant and updated content - Quick sign up and check out process - Easy-to-find contact information - Optimized for mobile - Visually appealing website	- Weak data protection - Heavy traffic that can cause crash to the website - Not user-friendly for mobile phone - No copyright notice on the website
Opportunities	Threats
- New technology to enhance the user experience - New design concepts to improve information sharing - Upgrade a server - Generate revenue from advertisement - Innovative marketing strategy	- Cybersecurity threats such as spyware, hackers and virus - Fraud activities - Competitors that have better and well-known website rental such as Mudah.my - New entrants easily can copy the ideas and layout design - Copyright infringement

Table 1 SWOT Analysis of Website

1.8 OPERATIONAL DEFINITIONS

These are the terms and its operational definitions:

Website

A text-related entity that extends over one or more connected browser windows, the connection of which is based on semantic, formal, and physical-performative links (Brügger, 2009).

Property

A system of rights that gives people legal control of valuable things (Powell et al., 2009).

Transportation

The movement of humans, animals and goods from one location to another. Transportation moves people and goods from one place to another using a variety of vehicles across different infrastructure systems (Prakash, 2022).

Residential Rental Property

Residential rental property refers to homes that are purchased by an investor and inhabited by tenants on a lease or other type of rental agreement (James, 2022).

1.9 CONCLUSIONS

The design of websites represents an excellent framework for online firms to generate users' satisfaction, trust and positive intentions towards the website. Besides, the importance of web atmospherics has been revealed to attract users' attention to the website, to improve users' knowledge about what Protechnic is offering and to encourage users' engagement intentions. Therefore, the role played by web design is crucial for getting website's success.

CHAPTER 2 – LITERATURE REVIEW

2.1 INTRODUCTION

Easier access to technology, the modernization of society, and the increasing availability of smartphones allowed individuals to log on to the Internet with greater frequency, speed, and convenience. As of April 2018, more than 4 billion people worldwide were actively using the internet. According to Statista, the world's largest statistics portal, Internet access is most frequently used to visit social networks and make online reservations and purchases (Semerádová & Weinlich, 2020).

Website

A website is defined as a collection of related web pages, including multimedia content, usually identified by a common domain name and published on at least one web server or Internet-connected location that maintains one or more web pages. A website is a place where people can find information about an institution or company. Nowadays, people tend to look at the website first rather than going directly to the institution or calling to get more information. The website also serves as a tool to influence public perception and promote products or services. Therefore, when developing such a website, we should follow existing website generation models and also conduct research associated with website development (Trihanondo & Endriawan, 2019). Website creation requires some features, skills, and innovative and creative design to present a good website that attracts visitors on the internet. Many websites are designed to provide data and information on the World Wide Web so that viewers can easily access and retrieve the information. It is known that students nowadays are accustomed to a computer environment and have technological skills, especially in terms of Internet browsing, mobile communication, and the World Wide Web (www). The most important medium today is online communication, where data and information can be collected in a shorter time frame than traditional study. Nowadays, most students carry a

smartphone, an I-pad, and a notebook as their daily communication devices. On the other hand, they benefit from the facilities in faculty areas that are covered and surrounded with wireless fidelity (Wi-Fi) and internet communication (Kassim & Idris, 2018).

Website Development

Website development is an important application today where data is stored and published on the World Wide Web and viewed by users. A multimedia project that consists of the elements of text, animation, image, audio and video is well designed on websites. Website development features involve planning, design and publishing on a free domain. Today, they are most quickly accessed and easily used to develop online websites called website hosting, such as Weebly, BlogSpot, Wix, and others. These are sometimes referred to as blogs (Kassim & Idris, 2018).

Affordable and widespread Internet access has made the World Wide Web an important source of information. Therefore, building a strong online identity has become an important marketing tool for any institution. A facility's web presence can be built through an official website, social media accounts, and other related media. These channels need to be carefully designed, structured, implemented, and managed to maintain a good organizational reputation and attract the attention of many visitors (Al-Hawari et al., 2021).

Website design

Web design is one of the most important things a business can have. Websites can build the credibility of a business. Web design can also increase the professional value of a business. Web design is not only important for e-commerce but also for a company that wants to show its character. When a brand image successfully does its job, it can have a positive impact on the company. Web design is the presentation of creations with interesting content on a website that users can access, and it plays an important role for online businesses or online stores. Information is the most important and useful thing

for users or business people in this online world. This very useful information can facilitate the search. Through the quality of information, you can also persuade the users or customers to buy the products offered on the website. It is not only about information, but also about marketing. In marketing, the customer uses the information to find a business strategy and ways to offer good services. Responsive web design is generally a modern evolution of the existing web design. It is a state where the display looks good when accessed from any device. It is suitable even if the resolution is different. When we access the website from a smartphone, the display is different from when we open it on a computer. With responsive web design, this view looks similar to what we see when we open a website on a computer. Web design is not only about how it looks on a computer screen, but also how it looks when you open a website or a website on a smartphone. Since people have sophisticated cell phones, it is inevitable that the smartphone is very helpful in doing their tasks. For example, when they want to buy something from an online store through a website. This is how responsive web design is developed. When developing such a web design, some things should be considered: a good user experience for the customer and easy management of the website itself. The benefits of web design for businesses are that websites can enhance the credibility of your business. This is important because the website can save your expenses on promotions. In addition, websites are easy to renew, although this is only a general advantage, but a web design is very influential for the self-expression of the company and also for the customers. As already described, we can present both a user-friendly web design and the right information? A website that is soberly designed does not suit the company. The duration of the seller's response also confuses the order in which the website is left, and customers look for websites that better guarantee that the customer's desire is also a satisfactory service to customers. This is evident from the importance of the website designed to attract customers and provide a good start and also a satisfactory service. Without realizing it, the web design is very important for the continuity of the company, especially for a company that is still developing. This web ad shows the features of a company, by which the buyer can see which online store he can trust to buy something from. Through its interesting web design, it can lead to cooperation with larger companies or remaining customers because it is more promising and

reliable when we see it from the testimonials or suggestions of some customers. It has indirectly built a brand image for the website itself (Iskandar & Sholihat, 2018).

Website design leads to three outcomes, including emotional responses, perceptions, and behaviors. These outcomes can be attributed to one or more objects, including consumers, websites, and products or vendors. The underlying processes that drive the impact of design features are categorized as follows: cognitive process (i.e., perceptual evaluation and processing of information), affective process (i.e., emotions and feelings), experiential process (i.e., related to the overall user experience), and conative process (i.e., behavioral intentions). The conditions under which the design-outcome relationship changes are categorized as consumer attributes, website attributes, and product attributes (Chan et al., 2021).

ADDIE Model

ADDIE is an instructional design model (ISD) most commonly used for training programs among instructors, software developers, and university principals (Yeh & Tseng 2019). The model consists of 5 steps which are Analysis, Design, Development, Implementation, and Evaluation (Iswati, 2019). It suggests revisions after every stage to minimize errors and foster continuous improvement (Quigley, 2019).

Many ISD models have been developed and used over the last few decades. Models differ in terms of the number of steps, the names of the steps, and the recommended sequence of functions. ADDIE is still one of the most popular ISD models, and it is updated and utilized in a variety of major organizations. "ADDIE," which stands for Analyze, Design, Develop, Implement, and Evaluate, is a common phrase used to define a systematic method to instructional development; thus, ADDIE does not follow a rigid linear progression. The model's phases are made up of many procedural processes. Analysis, for example, often involves needs analysis, learner analysis, context analysis, and content analysis. The analysis step produces learning objectives, which are used as input into the design process. The

researchers followed every phase in order to produce an effective instructional product and to achieve the desired goals (Abdul Ghani & Wan Daud, 2018).

The ADDIE model was first created for the U.S. Military during the 1970s by Florida State University. The ADDIE model represents a flexible guideline for building effective training and instructional materials (Kavitha & Lohani, 2018). The ADDIE model is now widely used by instructional designers to deliver tech training, and it works well for developing expertly, effective, and high-quality distance learning programes (Bamrara & Chauhan, 2018).
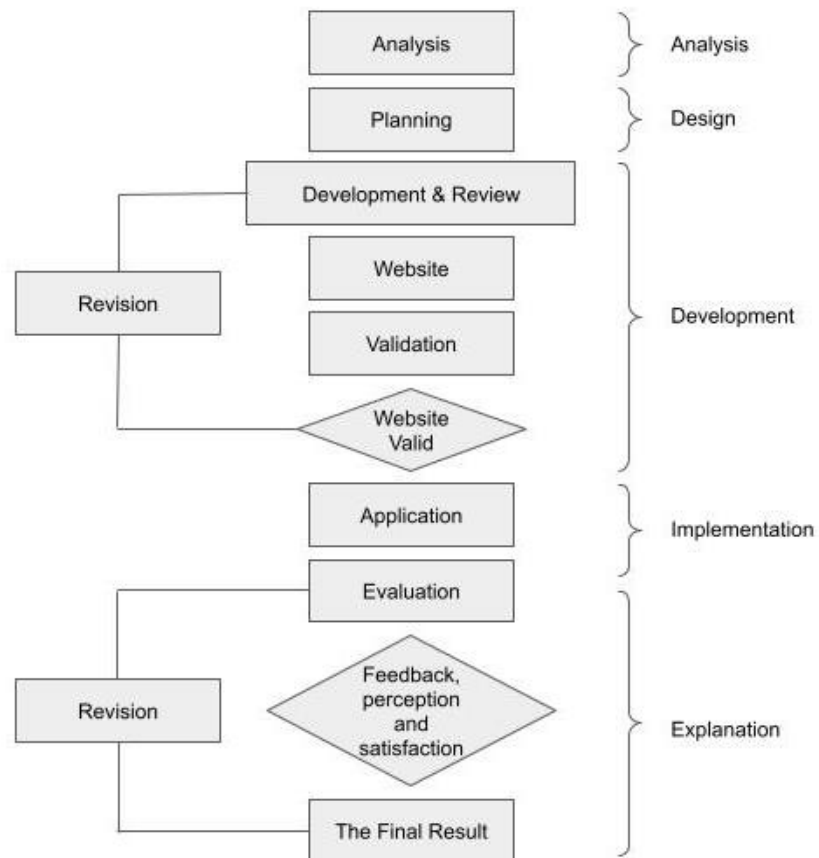

Figure 2 ADDIE Model for Website

Structure (Bouchrika, 2022)

Analysis

Before developing an instructional program, course developers are to analyze the current setting, be it in the office or a classroom. It starts with probing questions like "Who and how many are the learners?", "Which areas have knowledge gaps?", "How can those gaps be filled?", "What is the timeframe of the course?", "How much is the budget?", and the like. The logistics should also be accounted for.

The goal of this phase is to clarify the issues faced by the organization as well as the objectives of the learning course to be developed (Mazhar, 2018).

Design

After analyzing the situation, course developers will have to come up with the format of the program. They have to think of learning activities that bridge knowledge gaps, the media used for those activities, the order in which those activities will be administered, and the structure of the course (Apostolopoulos, 2018).

For instance, developers can determine the length of each lecture, the number of quizzes needed, the lessons that would require educational videos and those that necessitate face-to-face teaching, and the structure of the curriculum.

Before proceeding to the next stage, the development team has to analyze the course's framework and then adjust it as needed.

Development

This phase is all about putting the course design and the ideas behind it into action (Apostolopoulos, 2018). For courses with numerous components, it is advisable to create a storyboard so that the team has a point of reference through the course of development (Quigley, 2019). The curriculum is to be developed while its content is produced and arranged, as planned in the previous stage. The same goes for the course's branding and design scheme, which includes the graphics, color patterns, and the layout of lectures and quizzes.

Also, a page dedicated to collect student feedback about the course is added at the end of the program.

After developing the course, the next step is to check for grammatical and design errors. The effectiveness of the learning activities and the program as a whole will also be tested, with revisions performed as needed.

Implementation

With the course developed and fully tested, applying it to learners comes as the next phase (Gutierrez, 2018). The program is uploaded to a learning management system (LMS) or delivered face-to-face based on what was planned in the previous stages. Since the course is new, scripts and cue cards might have to be prepared to help instructors in face-to-face lectures and discussions. The functions and links of the uploaded course are also checked for errors.

When everything's ready, classes can finally be held. Learners are asked for feedback at the end of the course as they point out the program's strengths and areas of improvement (Mazhar, 2018). This is instrumental in the succeeding phase.

Evaluation

Feedback analysis from students and members of the course development team is central to the Evaluation stage. In processing their comments, improvements can be made to the course. Further testing of the program may also be performed to identify new training requirements or a possible change in approach to the lessons (Quigley, 2019).

An evaluation report is prepared to highlight the strengths and weaknesses of the program as well as recommend and quantify actionable changes if necessary.

Advantages

Versatile. The model is flexible enough to accommodate online, offline, and blended learning (Apostolopoulos, 2018).

Widely accepted. Being commonly used for training programs (Yeh & Tseng 2019), this model has delivered results and is responsible for many of the effective learning materials on the market.

Promotes analysis. With this model, course developers can assess the needs and performance of an educational course in nearly all of its stages (Apostolopoulos, 2018).

Clear and simple. Categorizing activities is a straightforward process since the model only has five clearly defined phases (Quigley, 2019).

Disadvantages

Potentially costly and takes too much time to accomplish. Each of ADDIE's stages is broad and may involve its share of consultations, so accomplishing all of them could cost a lot of time and money (Mazhar, 2018).

Possibly dated. As 0ne of the earliest instructional design models, ADDIE has been the subject of discussions on its relevance as a model for modern training/educational programs (Gutierrez, 2018).

Rigid structure. Broad as its phases may be, ADDIE strictly follows a linear structure. This could curtail ideas for its latter stages if the development team is following a rigid workflow (Mazhar, 2018).

2.3   CONCLUSION

A solid page design is vital in today's Web development. A poor design will result in fewer visits, which will result in less sales. A good page layout must, in general, meet the essential components of a good page design. Although it might be difficult to create a design that is suitable for all users, there will be one that is suitable for the majority of the audience. The better a page's design, the more visitors it will attract. The most frequent framework in instructional system design is the ADDIE model. The ADDIE model serves as the foundation for the majority of instructional design models. In terms of educational growth, educators must continue to make progress on instructional design models.

CHAPTER 3 – RESEARCH METHODOLOGY

3.1 INTRODUCTION

Methodology is the process, step or stages used to collect information and data for the purpose of making decisions. The methodology is chosen from the ADDIE Model. In this chapter, it will explain more detail about every phase that involve on this project development.

3.2 RESEARCH DESIGN

ADDIE Model

ADDIE stands for a five-step process: Analysis, Design, Development, Implementation, and Evaluation. ADDIE is an instructional systems design framework that many instructional designers and training developers use to develop courses**.**

Analysis

At the first step, activity done such as analysing the issue had by the students and the solution for thee issue that student had. Analysing the students' needs relate to their comfort, pleasure, economy and analysing the relevant materials for the information sharing desired relate to what students deeded. The solution discussed is to create a platform for information sharing, Protechnic. Analysis result of this step is self-evaluated and continued evaluation with colleagues for the improvement of analysis results.

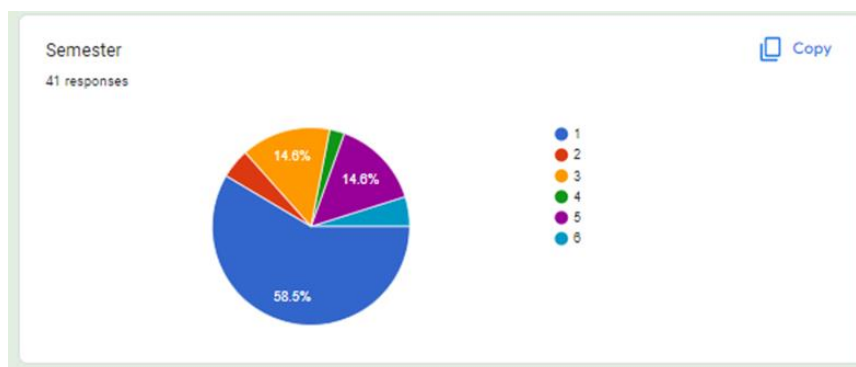**Figure 3** Semester (1-5)
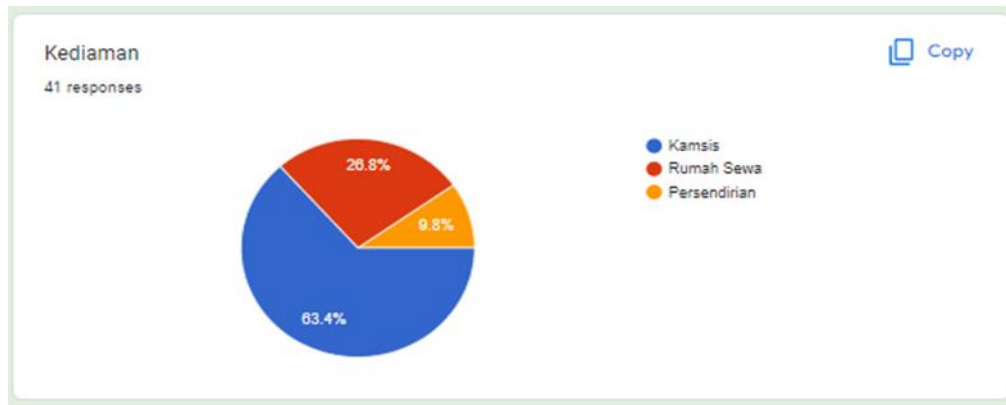
Figure 4 Types of residence (College, Rental House, Own House)

Figure 5 Do you think it is hard to find rental room & house around Politeknik Shah Alam? (yes/no)
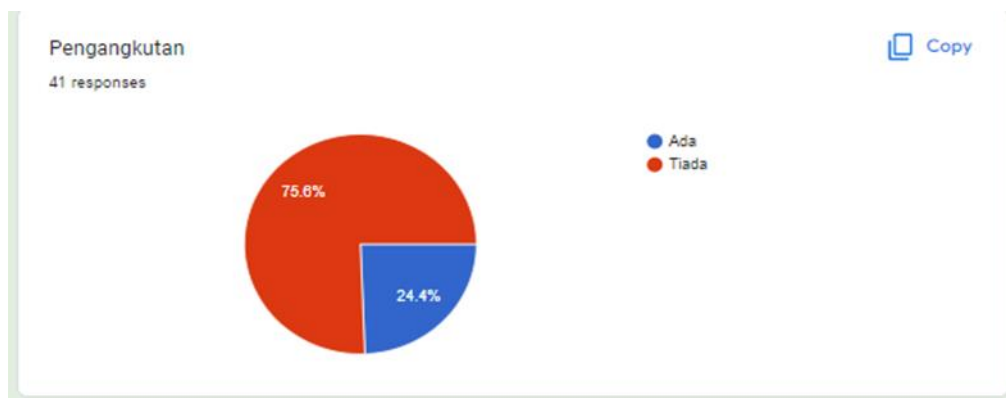
Figure 3 Possession of transportation (yes/no)

Figure 4 Do you think owning a transportation is a necessary to go back and forth from your institution to your home? (yes/no)

Figure 5 Which of the following transaction method would ease rental process for students?

Figure 6 If an online rental platform is provided for only Politeknik student for house/room & car/motorcycle would it ease your burden and hassle in finding accommodation?(yes/no)

Design

The second step is focused on three activities those are material choice relevant for the information sharing platform and the competence to be achieved, learning strategy, assessment form and method and also evaluation. In this step, platform and draft are designed. The result will be self-evaluated and also with colleagues for the improvement of design results.
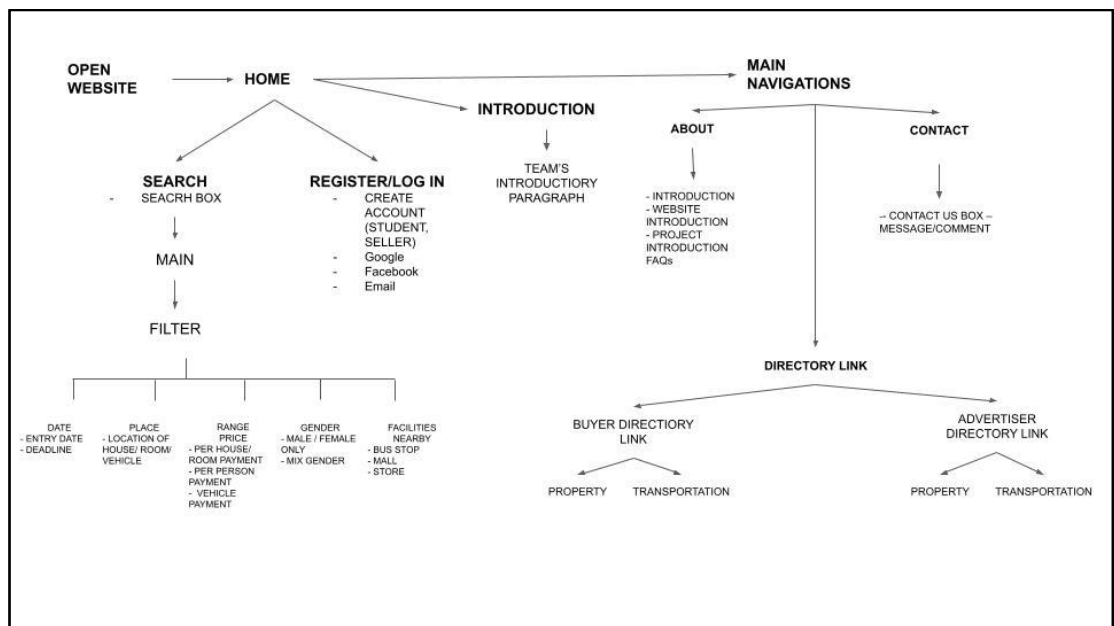
Figure 7 Flowchart website

DESIGN RESOURCES FOR THE WEBSITE

Function:

Rental platforms for property and transportation that are highly curated only for politeknik. This is because PSA have no the body of organisation that rental property & transportation management for student. ProTechnic are meant to ease the accommodations for politeknik student after their semester 1 as they are no longer entitled to stay in Kamsis throughout the rest of their upcoming semester.

Logo:

Figure 8 Logo Website

A logo is a graphic identity vector, and it has its place in a communication strategy of a company. It is about the signature of a company. That is why is very important to be able to create a harmony between colours and shapes concerning the universe of logos.

The logo design is a creative work which allows to a company to be seen through a symbol as a visual and graphic message. We think there for many opportunities to build an image using such a graphic symbol. As you see the logo" lifting" try to rebuild a new "face" of a company using the already existing elements or other new, unknown. Size, colours and shape are three important elements in a design activity. If someone wants "to picture" a logo must know the attributes and functions of it, suggestive induction of shapes and the number and meanings of colours. When someone talks about corporate identity cannot imagine this without speaking about logo and graphics. The two stages, the research and creative graphic work have to be developed by any logo designer to obtain best results (Ad"r et al., 2012).

ProTechnic are the combination of 2 words which is Property & Polytechnic. The fonts that are used for ProTechnic Logo is Bolded Fraunches. The logo design is made by using Editor X software to reduce the quality reduction and timesaving.

Colours Combination:

Figure 9 Colours Combination Website

A person's mood, emotions, feelings, sensations, and perception have always been greatly influenced by colour, and it seems to offer rather than allowing for a single interpretation, provide opportunities for multiple interpretations. Colours influence consumers' purchase decisions, how they perceive the world, their emotions, and their behaviour, so they are essential to the worlds of marketing and advertising. Different signs combine in a person's experience of a product because colours don't work separately and individually but rather from multi-layered references. (Singh & Srivastava, 2011)

The colours combination for ProTechnic are orange and green. As the bright tone orange is the primary colour & the darker tone green is the secondary colour. This is to bring contrast between 2 colours in the user interface.

Orange - Orange colour signifies a happy, balanced and an enthusiastic mind. It is used to portray energy, heat, fire, playfulness, gaudiness, arrogance, warning, danger, desire, royalty and religious ceremonies and rituals. It is also used to signify orange and citrus flavour. (Singh & Srivastava, 2011)

Green - Green signifies a balanced and a rejuvenated mind. It symbolizes growth, rebirth, renewal, nature, fertility, youth, good luck, generosity, health, abundance, stability and creative intelligence. It ais also used to symbolize lemon flavour. (Singh & Srivastava, 2011)

Font Combination

Designers vouch for the value of fonts. They frequently notice things that others miss. It can appear on the surface that fonts are all about the aesthetics of the written word. It does, however, represent the writing style and personality of an entity, according to designers.

The processing of information is a huge topic of research in psychology. That brings us to typography, which is an inherent characteristic of the written word which represents information. Font psychology is all about the interaction between mental & neural processes, the environment which contains the typography, the typography, and the behavior associated with it.

The font that are frequently being used in ProTechnic are 'Helvetica' to bring out the clean aesthetic in the typography of ProTechnic Site. Helvatica immersed smoothly with the color combination of Orange and Green. The color of Helvetica are black and the fonts are bolded to increase the readability of the content shown.
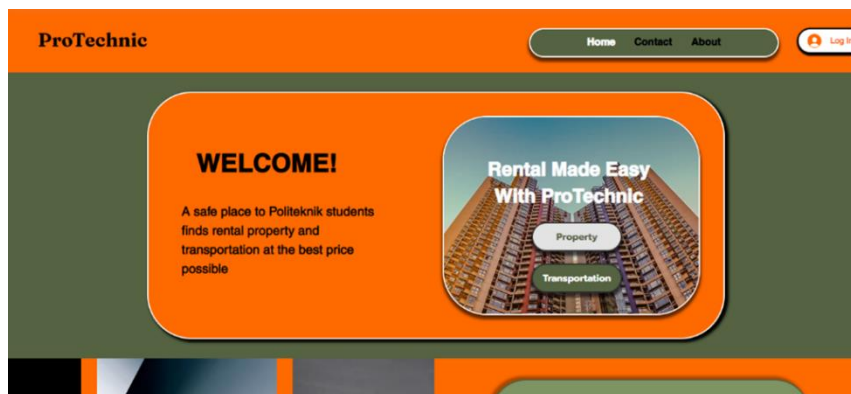
Development

Figure 10 Development 'ProTechnic' Website

There are several activities such as Create factual sample for the platform design; collecting relevant data resources to enrich the module, Develop the materials of the project; making illustration, scheming, and creating form needed, typing, editing, is performed. Run through the conduction of the design; validating the draft of development product and revision after expert input will be performed.

Implementation

Figure 11 Implement prototype of 'ProTechnic' Website to students

In this step, development result is applied in information sharing to know its influence on the quality of receiving information covers the effectiveness, attractiveness, and efficiency. Implementation is applied on small group to get input from the students and lecturers as input for the revision of product draft

3.3   DATA ANALYSIS METHOD

Students tend to have problem seeking rental property and transportation. Given the problems, a data analysis using quantitative method carried out gathering data about students' difficulties in rental property and transportation.

Figure 15 shows the result of students' semester. Semester 1 has the highest responses with 58.5% out of 41 respondents.
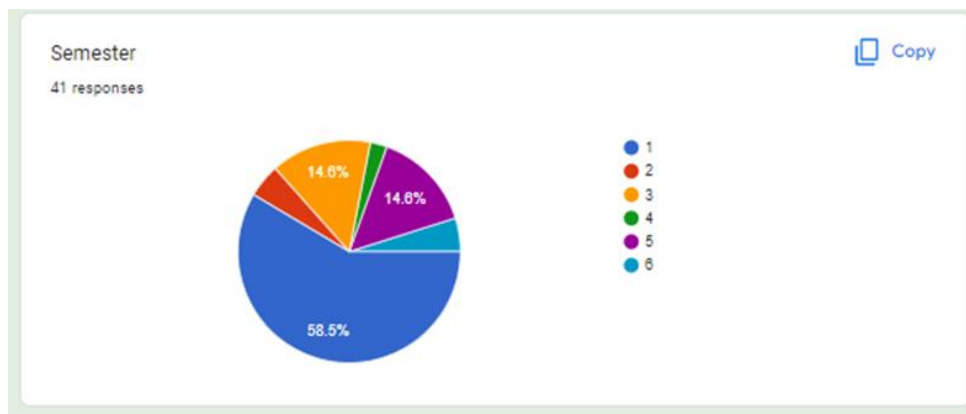
Figure 15 Semester

Figure 16 shows the result of types of residence. The Kamsis has the highest responses with 63.4% out of 41 respondents.
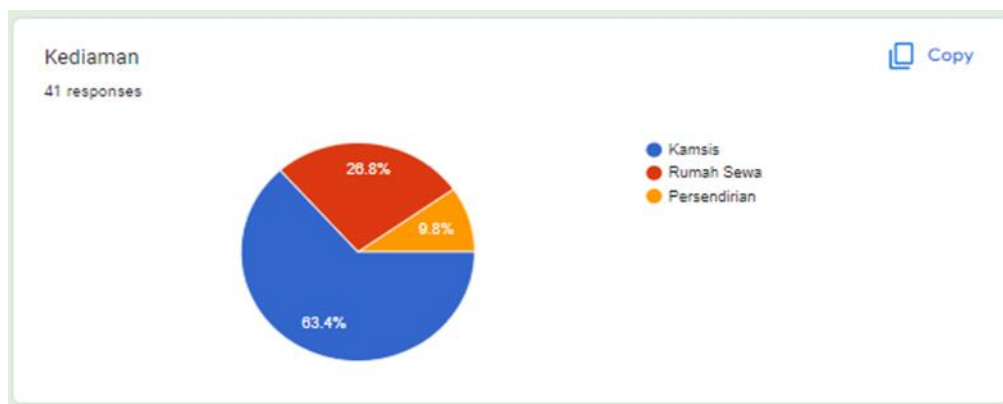
Figure 16 Types of residence

Figure 17 shows the result of difficulties seeking rental property near
Polytechnic Shah Alam. The answer "ya" or yes has the

highest responses with 82.9% out of 41 respondents.

Figure 17 Do you think it is hard to find rental room & house around
Polytechnic Shah Alam?

Figure 18 shows the result of possession of transportation. Mostly, students do
not own any transportation based on the result which show 75.6% out of 41
respondents.
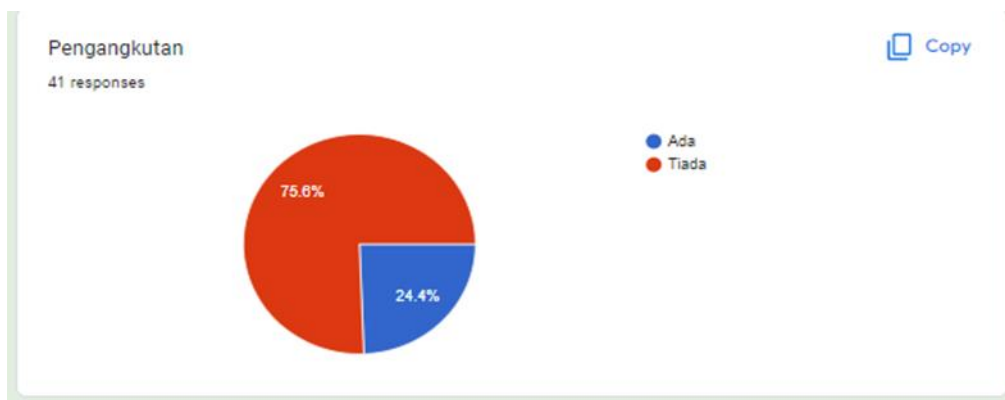
Figure 18 Possession of transportation

Figure 19 show the result of necessity having transportation. Based on the result, 90.2% out of 41 respondents choose yes.

Figure 19 Do you think owning a transportation is a necessary to go back and forth form your institution to your home?

Figure 20 shows the result of transaction method preferred. Students preferred low-transaction fee which resulted 85.4% out of 41 respondents.

Figure 20 Which of the following transaction method would ease rental process for students?

Figure 21 show the result of necessity of online rental platform. 95.1% out of 41 respondents answer yes based on the data collected.

Figure 21 If an online rental platform is provided for only Polytechnic student for house/room & car/motorcycle would it ease your burden and hassle in finding accommodation?

3.4 CONCLUSION

Based on the analysis, students of Polytechnic Shah Alam are having trouble seeking information on acquiring rental property and transportation. Also, often students missed or financially trouble on agreements when seeking a rental property and transportation. The result from the data analysis showing that a platform that provide information on rental property and transportation is needed by students.

CHAPTER 4 – DATA ANALYSIS AND RESEARCH FINDING

4.1   INTRODUCTION

This chapter will represent the results that has been obtained to see the effectiveness of our project of PROTECHNIC WEBSITE which has been produced in website given. The result from our online questionnaire were analysed in more detail to draw the conclusions based on our objectives which has been stated. This project will be conducted by all students from Politeknik Sultan Salahuddin Abdul Aziz Shah. The intention of this Protechnic Website is for those who want to find the rental property and rental transportation. There are several aspects that are the main focus in this project namely Respondent Demographic Profile, Central Tendencies Measurement of Constructs and Measurement Scale.

4.2   DESCRIPTIVE ANALYSIS

The descriptive analysis is a type of data analysis that serves to explain, describe, or summarise data points in a constructive way so that patterns might emerge that satisfy all of the data's requirements. One of the most important steps in statistical data analysis is this one. This analysis takes into account the semester, program, and age.

4.3 RESPONDENT DEMOGRAPHIC PROFILE

Researchers distributed online surveys to Politeknik Sultan Salahuddin Abdul Aziz Shah students and collected responses from them. The purpose of the questions on the respondents' behaviour is to determine how well they can recall the data. In order to complete this study, respondents were asked for personal information about themselves, including their gender, age, department, semester, accommodation, and mode of transportation.

Demography	Category	Frequency	Percentage (%)
Gender	Male	39	38.2
	Female	63	61.8
Age	18-20	91	89.2
	21-23	10	9.8
	24-26	1	1
Department	JKA	15	14.7
	JKM	19	18.6
	JKE	14	19.7
	JPG	54	52.9
Semester	1	19	18.6
	2	30	29.4
	3	10	9.8
	4	9	7.9
	5	34	33.3
Accommodation	Rental house	52	51
	Rental room	4	3.9
	Parents house	14	13.7
	College KAMSIS	32	31.4
Transportation	Own vehicle	43	42.2
	Public transport	55	53.9
	Rental car	4	3.9

Table 2 Respondent Demographic Profile

Based on the Table 2 above, it has shown that the profile of respondents for this project. According to the gender, there are 38.2% of male and 61.8% of female respondent which equivalent for two genders to 102 people. According to the age group, there are 89.2% that comes from the ages between 18 until 20 years old and 9.8% comes from the ages between 21 until 23 years old. According to the department group, the largest average for department of respondents in this study is 52.9% from the JPG following with 19.7% of the respondents from JKE. Next, is 18.6% respondent is from JKM and lastly 14.7% respondent is from JKA. According to the semester's group, the largest percentages come to semester 5 which is 33.3% with 34 respondents continued with semester 2 with 29.4% with 30 respondents. Meanwhile there are 18.6% from semester 1 with 19 respondents only. According to the accommodation group, many students stay at rental house with 51% of 52 respondent. Following by college Kamsis there are 31.4% and for students that stay at parent house only 13.7% with 14 respondents. Lastly according to transportation group, the largest percentage in this study is the students using public transport with 53.9% of 55 respondents. Followed by the students that have their own vehicle is 42.2% with 43 respondents and 3.9% is students using rental car.
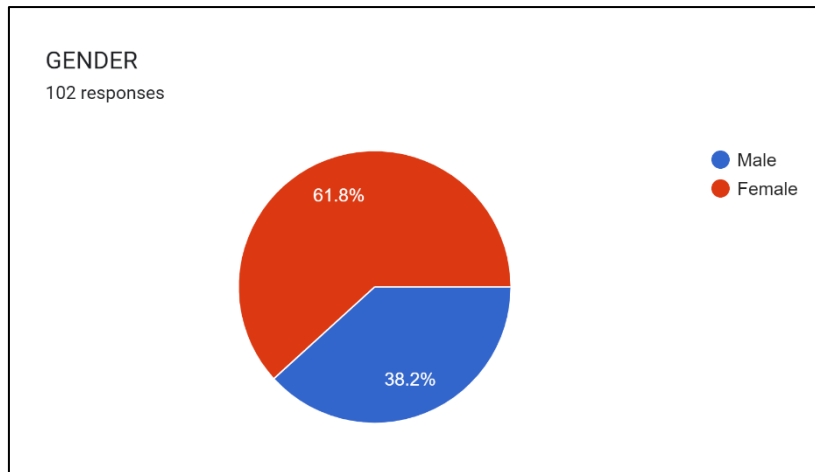
Figure 22 Gender

This survey had 102 respondents, with 63 (61.8%) of them women and the remaining up to 38.21% men (39 people). We can infer from the Figure 22 above that there are generally more female respondents than male respondents. Regarding the gender gap in student enrollment, this has developed. It is very difficult to find the same number of respondents by gender.
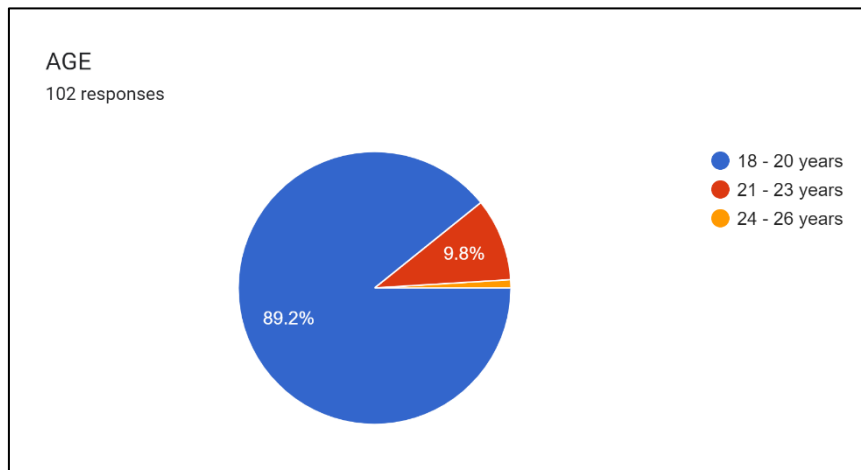
Figure 23 Age

The age of the respondents is depicted in the Figure 23 above. The respondents' ages range from 18 to 26 and are broken down into 3 age groups. The first circle is made up of the department's 89.2% (91 persons) of people between the ages of 18 and 20. The second level comes from the group of respondents aged 21 to 23, which comprises only 9.8% (10 persons) of respondents for the entire department. There are no age categories for those between the ages of 27 until 30. In conclusion, the respondents' ages range from 18 to 20 on average.
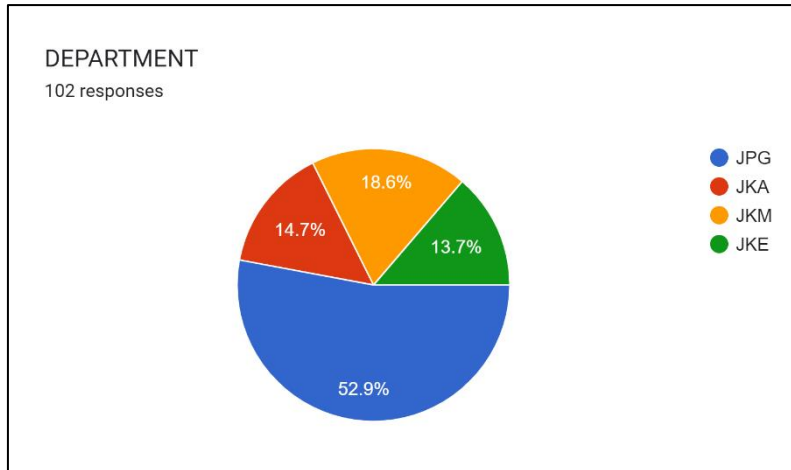
Figure 24 Department

The respondents for department displayed in Figure 24. 54 individuals (52.9%) from the JPG, while 19 individuals (18.6%) from JKM. Following by JKA is 14.7% (15 individuals) and from JKE is 14 individuals with 13.7%. It shows that JPG, or Jabatan Perdagangan, is where the majority of respondents come from.
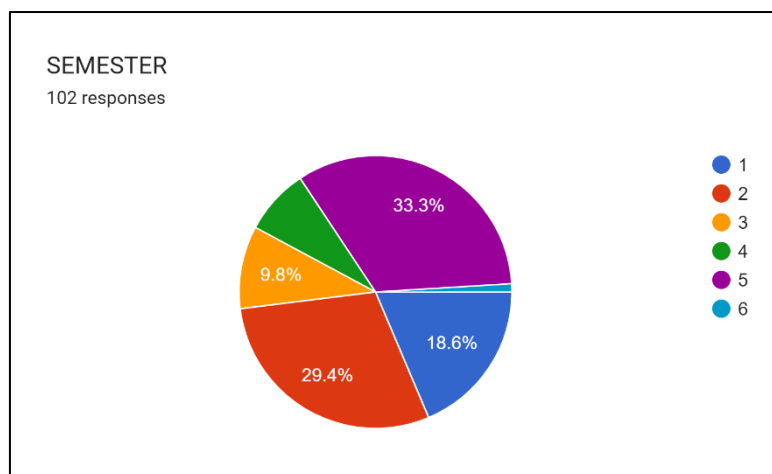
Figure 25 Semester

Figure 25 reveals that students from semester 5 make up the bulk of survey responses with 33.3% (34 students), with the remainder coming from semesters 2 and 1. 29.4% (30 respondents) of the respondents are second semester students, whereas 18.6% (19 respondents) are first semester students. 10 responders, or 9.8% of the total, are in their third semester. In conclusion, compared to the previous semesters, semester 5 had the most replies.
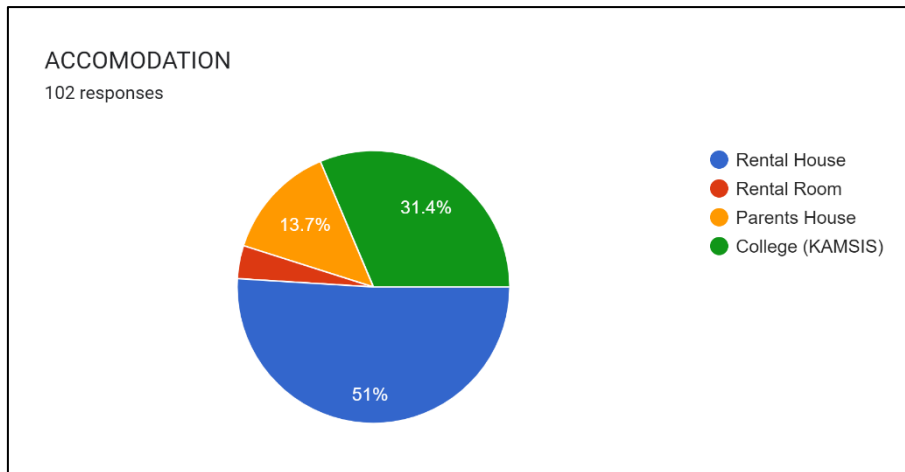
Figure 26 Accommodation

The respondent for accommodation displayed that mostly students stay at rental house with 51% of 52 respondent. Following by college Kamsis, there are 31.4% and for students that stay at parent house only 13.7% with 14 respondents.
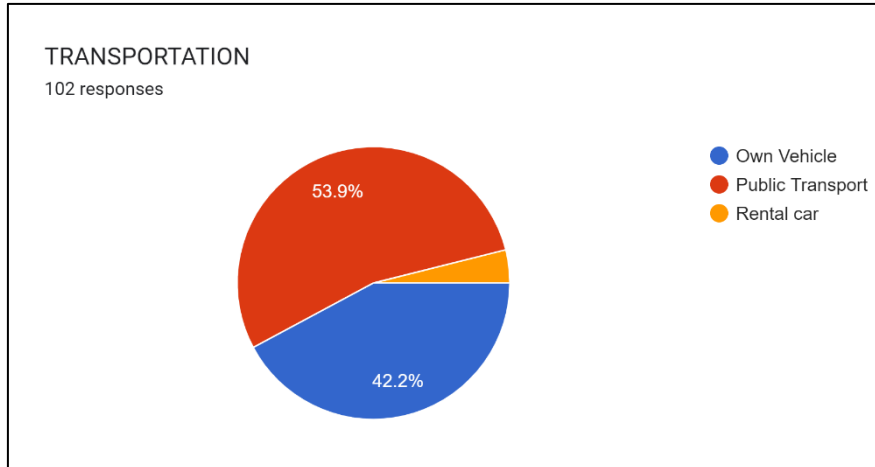
Figure 27 Transportation

According to Figure 27, the largest percentage in this study of transportation is the students that mostly using public transport with 53.9% of 55 respondents. Followed by the students that have their own vehicle is 42.2% with 43 respondents and 3.9% is students using rental car.

4.4   CENTRAL TENDENCIES MEASUREMENT CONSTRUCTS

In this part, the researcher assigned 6 statements from the PROTECHNIC WEBSITE to respondents in order of relevance responses. The central tendency measurement of constructs, also known as measurements of center or central placement summary measure that seeks to characterize an entire collection of data with a single value that corresponds to the middle or center of its distribution. We can see from this project that the standard deviation is used to measure and describe the mean. The mean will be used to calculate each score and the following examples are provided as support:

| VARIABLES	ITEM	MEANS STATISTIC	MEANS STD. ERROR	STANDARD DEVIATION STATISTIC
Design and colours combination satisfaction on PW	1	3.97	0.090	0.906
Does PW meet your needs?	2	3.96	0.082	0.832
Does PW presented in the right format?	3	4.03	0.083	0.838
Usability rating on PW	4	4.07	0.84	0.847
Does PW takes too long to load the website?	5	3.39	0.110	1.109
Content search difficulty in PW	6	3.95	0.085	0.860
TOTAL AVERAGE		3.895	-	-

Table 3 Mean statistic

From Table 3, the highest mean is from item 4 which is the usability rating on PW (4.07), standard deviation of 0.847 with high interpretation. While the lowest mean is item 5 (3.39), standard deviation of 1.109 with high interpretation. The conclusion is all the variables is high interpretation with mean 3.39 to 4.07. The mean average for aspect of presentation design of the website was 3.895.

Based on Table 3 above, the researcher will examine each of the 6 items individually and show the results as a bar chart.

How satisfied are you with the design and the combination of the colors for PROTECHNIC WEBSITE?

102 responses
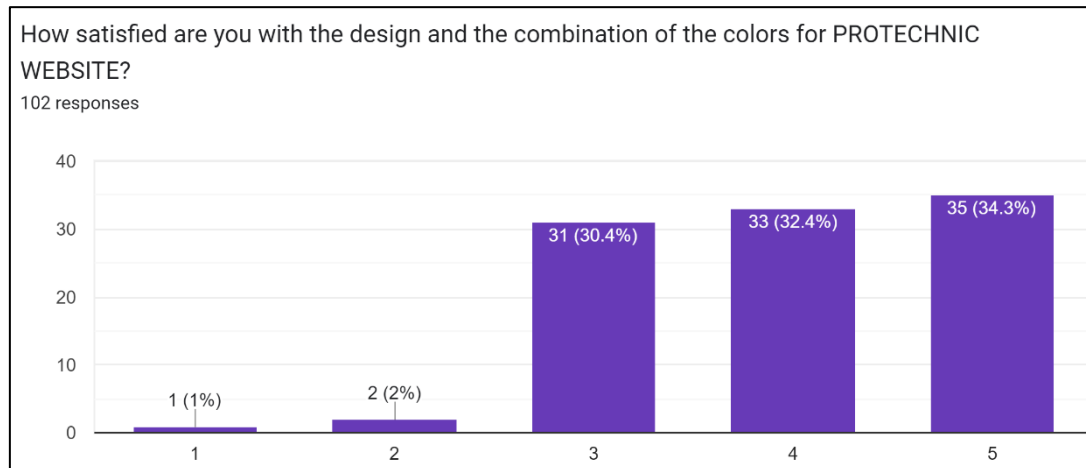
Figure 28 How satisfied are you with the design and the combination of the colors for PROTECHNIC WEBSITE?

Figure 28 shows the number of the respondents who strongly disagree (1), disagree (2), neutral (3), agree (4) and strongly agree (5) with How satisfied are you with the design and the combination of the colors for PROTECHNIC WEBSITE? Most respondents agreed that they satisfied with the design and the combination of the colors for Protechnic Website. A total of 34.3% respondents strongly agreed and 32.4% choose agreed. In conclusion, more than 50% of respondents support that they satisfied with the design and the combination of the colors for Protechnic Website,
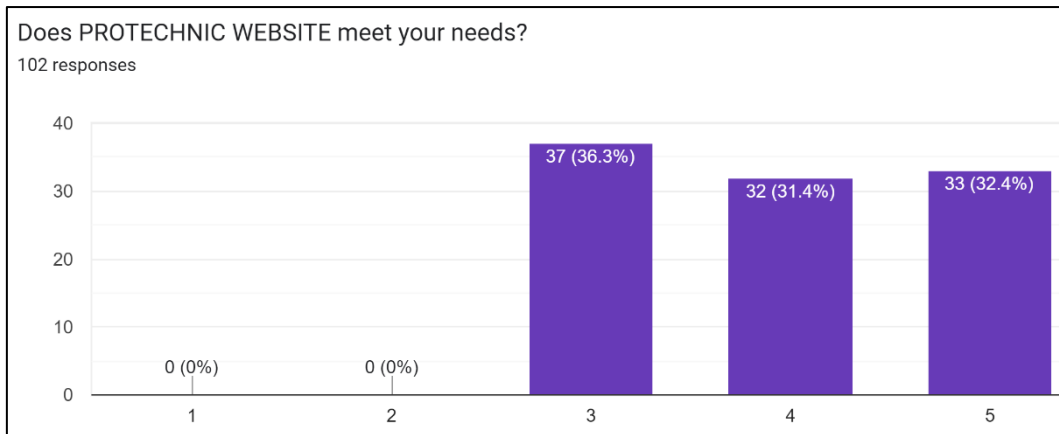
Figure 29 Does **PROTECHNIC WEBSITE** meet your needs?

The result shows 32% agreed that Protechnic Website meet their needs. Only 36.3% (37 respondents) of those polled picked neutral in response to the assertion. However, 65respondents, or 63.8%, said they strongly agreed with the statement 'Does **PROTECHNIC WEBSITE** meet your needs?'. The conclusion is Protechnic Website give the best recommendation of respondent needs.
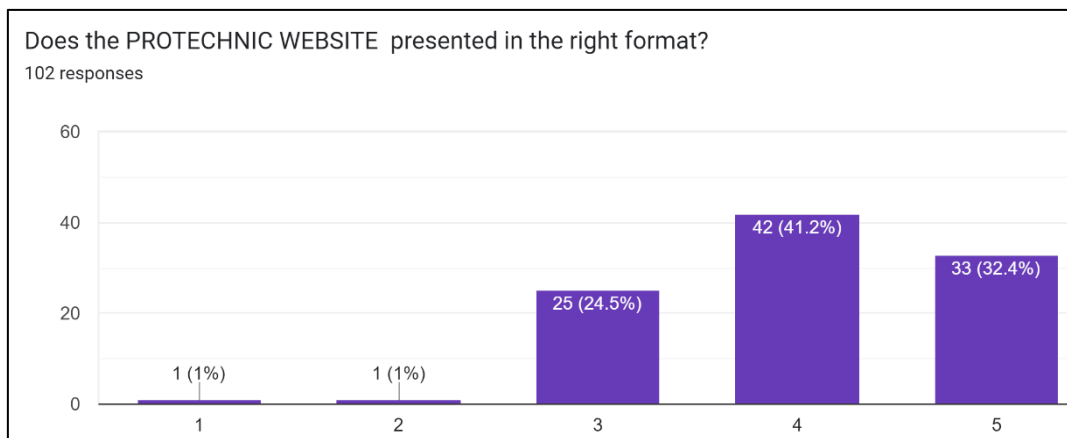
Figure 30 Does the **PROTECHNIC WEBSITE** presented in the right format?

Based on the analysis in Figure 30, the best option is mostly agreed with the Protechnic Website presented in the right format which is 41.2% (42 people). While 32.4% (33 people) of respondents strongly agreed with the statement and 24/5% (25 people) of the respondents choose neutral about the right format that Protechnic Website has been presented. Only 2 students disagreed with the statement.

Based on Figure 31 to 33, the researcher will examine the Aspect of Usability and show the results as a bar chart.

How good is it that you would rate the usability of our PROTECHNIC WEBSITE ?

102 responses
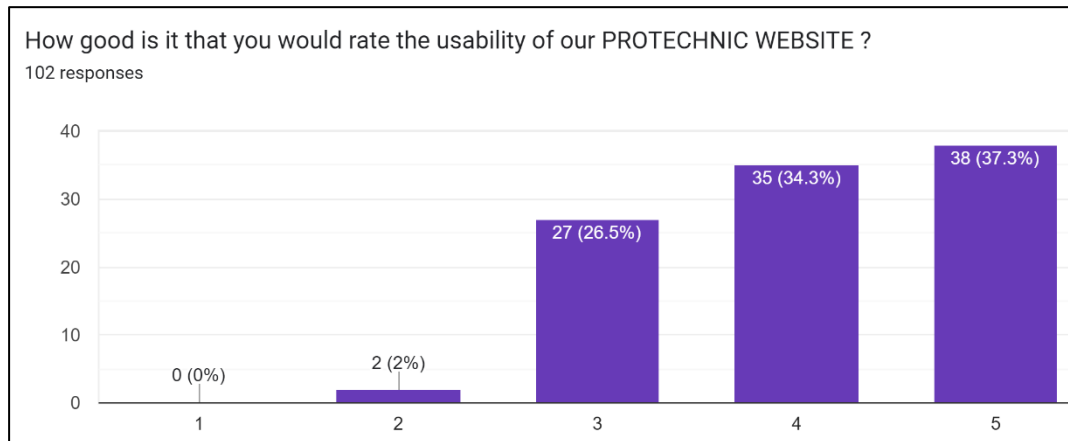
Figure 31 How good is it that you would rate the usability of our **PROTECHNIC WEBSITE**?

Figure 31 shows the number of respondents who strongly disagree (1), disagree (2), neutral (3), agree (4) and strongly agree (5) about how good is it that you would rate the usability of our Protechnic Website? Most respondents strongly agreed that there was good usability in Protechnic Website. A total of 35 respondents agreed and 27 choose neutral. In conclusion, more than 50% of respondents support that there was good usability in Protechnic Website and one individual disagree with that statement.
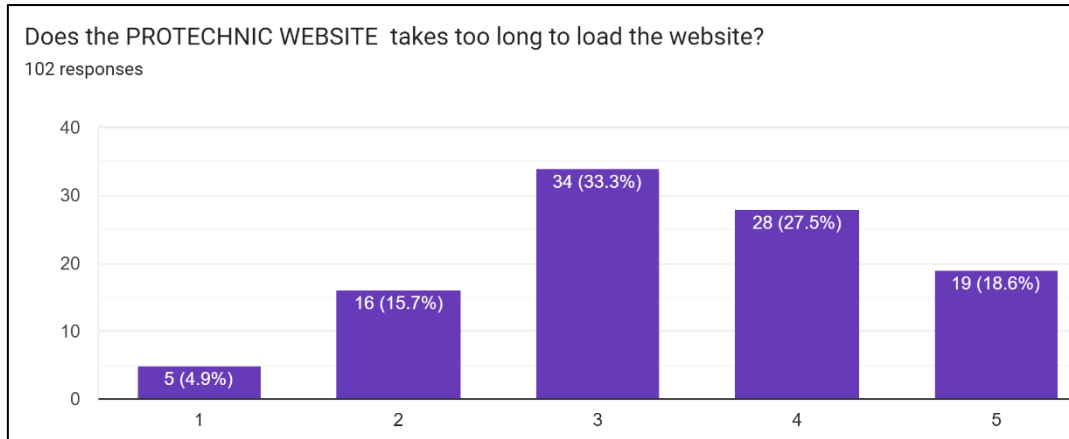
Figure 32 Does the **PROTECHNIC WEBSITE** takes too long to load the website?

In figure 32, a total of 33.3% (34 people) neutral and 27.5% (28 people) agree about the Protechnic Website takes too long to load the website. While 18.6% (19 people) gave a strongly agreed and there were also a few students who disagreed, which is only 20.6% or 21 people. This mean that our Protechnic Website still need to improve the smoothness of load.
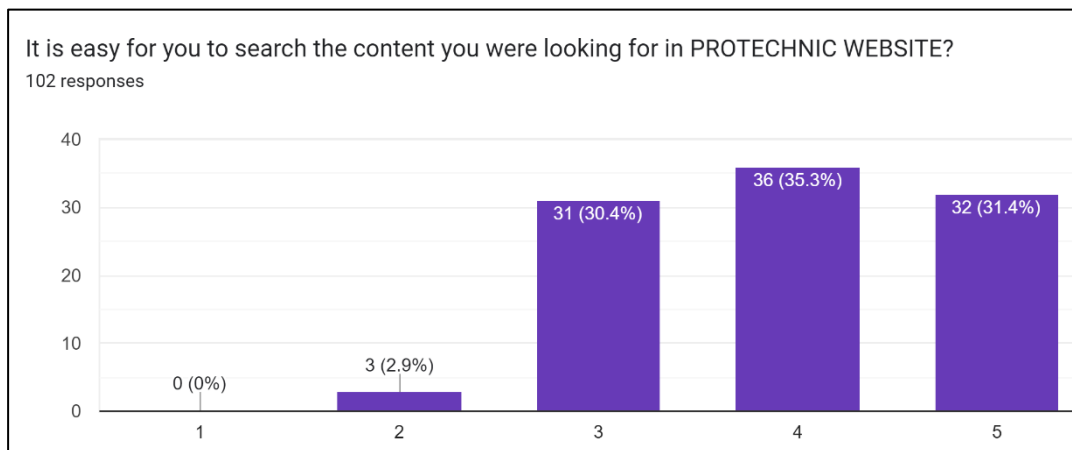
Figure 33 It is easy for you to search the content you were looking for
in **PROTECHNIC WEBSITE?**

Figure 33 shows that the students easy to search the content they were looking for in Protechnic Website**?** 31.4% (32 people) strongly agreed and 35.3% (36 people) agreed with the statements. But still another 30.4% with 31 respondents choose neutral and the rest disagreed disagreed by 2.9% (3 person).

Based on Figure 34, the researcher find the Mean of the Reliability Statisitics.

Reliability Statistics

Cronbach's Alpha	N of Items
.841	6

Figure 34 Reliability Statistics

Figure 34 shows that our Cronbach's Alpha for this questionnaire is good which is 0.841

4.5   DISCUSSION

The data presented is about how to evaluate this project based on our questionnaire that has been given to all students from Politeknik Sultan Salahuddin Abdul Aziz Shah. Based on our mean and standard deviation, the highest average mean that has been concluded is from the aspect of usability rating on Protechnic Website which is (4.07). This aspect focuses on how significant and beneficial this project is to our polytechnic students, particularly those who are looking for rental housing and transportation., which has been based on the terms and concepts that meet the requirements we provide in our website.

The second highest was the aspect of presented the right format (4.03). The most major element of website design is its visual appeal since it makes it easy for students to find every content.. The graphics in Protechnic Website are simple to understand have also attracted the interest of students to using the website. The feature of presentation design and colour combination (3.97) discussed the general look design that has been established for this website to make it more appealing and easier for students to understand. Alert transitions and arrangements are necessary to prevent complications for the pupils when using it. And this data has answered our main significance and objectives.

4.6 SUMMARY

This chapter's conclusion gives a clear view of the entire data analysis and research findings. Questionnaires we developed for students at Politeknik Sultan Salahuddin Abdul Aziz Shah were used to collect explanations and descriptions regarding the data analysis, which were then included into the table and made apparent in this chapter.

CHAPTER 5 – CONCLUSION AND RECOMMENDATION

5.1   CONCLUSION

The protechnic website development for rental of property & transportation among PSA students is an information sharing tool for students to find an information about rental of property & transportation in easiest way because the Protechnic website has centralized the information of rental in Shah Alam area for Politeknik Sultan Salahuddin Abdul Aziz Shah student. We used an instructional design of ADDIE MODEL's framework originally developed in 1975 by Florida State University to develop the Protechnic website.

To conduct our research, we used a questionnaire that came with two online questionnaire forms, namely pre-test and post-test questionnaires, which we analysed using the Likert Scale via Google Forms. To collect all of the data and information, a quantitative analysis method was established. Questionnaires were distributed to all department students from the first semester to the fifth semester of Polytechnic Sultan Salahuddin Abdul Aziz Shah in order to determine whether or not it was necessary for us to design and develop a website for students. The Polytechnic Sultan Salahuddin Abdul Aziz Shah students were the target audience for the creation of this Protechnic website, which allows them to quickly access details on housing options and transit options close to the university. Pre-test questionnaires indicate that the majority of them desire us to create and carry out this project.

There are two objectives for this website to be created. For the first objective, we want to develop a website for information sharing of rental among PSA students that allows the students to access and find the information needed wherever they are at any time. The second objective is that, to identify students' satisfaction level in using the website as information sharing for rental platform. The website may carry out every planned function during its implementation and evaluation without any issues or mistakes. The website's ease of use and accessibility also allowed users to evaluate it without any difficulties.

The post-test data was collected from 102 respondents, and the results were implemented and evaluated for the Protechnic website development. The post-test questionnaire was designed to inform students about whether they successfully implemented and evaluated the Protechnic website development, whether it was effective or not, and to leave students impressed with this information sharing tool. As a result of viewer feedback, the Protechnic website development has proven to be a highly beneficial information sharing tool for polytechnic students seeking information on rental housing and transportation. The data that was obtained is to show whether it was successful or not and to meet our objective which is to identify students' satisfaction level in using the website as information sharing for rental platform.

5.2   RECOMMENDATION

There are several recommendations for how to improve the Protechnic website's development as a platform for information sharing that enables students to access more reliable sources for housing and transportation. This takes into account every factor to make the websites we design at Protechnic always the best instruments for sharing information. The aim of this recommendation is to enhance this information-sharing platform going forward. This is a recommendation that will be made, and some of them are:

1.   The development of this Protechnic website can be used not only by students of Polytechnic Sultan Salahuddin Abdul Aziz Shah, but also to the other polytechnic located in different areas and regions. Therefore, more categories and options of the rental house and transportation will be added to that website in the future so that it may be utilized by students from various polytechnic.

2.   Regularly update the content by sending out a monthly reminder to visit the website and make changes to the homepage content. This is to guarantee that the students receive the most recent information about rental housing and transportation in their areas. Additionally, it can avoid miscommunication between the tenants and the landlord as well as misleading information.

3.   Optimized the website for mobile devices because site visitors prefer a pleasant experience while using their cellphones to check out items or services, optimizing the website for mobile users can provide a competitive advantage over company rivals. There is a good chance that people who visit the website will share the posts, products, etc. on social media. They might also begin to follow the brand page. With this invention, it allows student to browse the site from anywhere without having to download or install anything. The key benefits include better user experience, increased conversion rates, and greater brand visibility.

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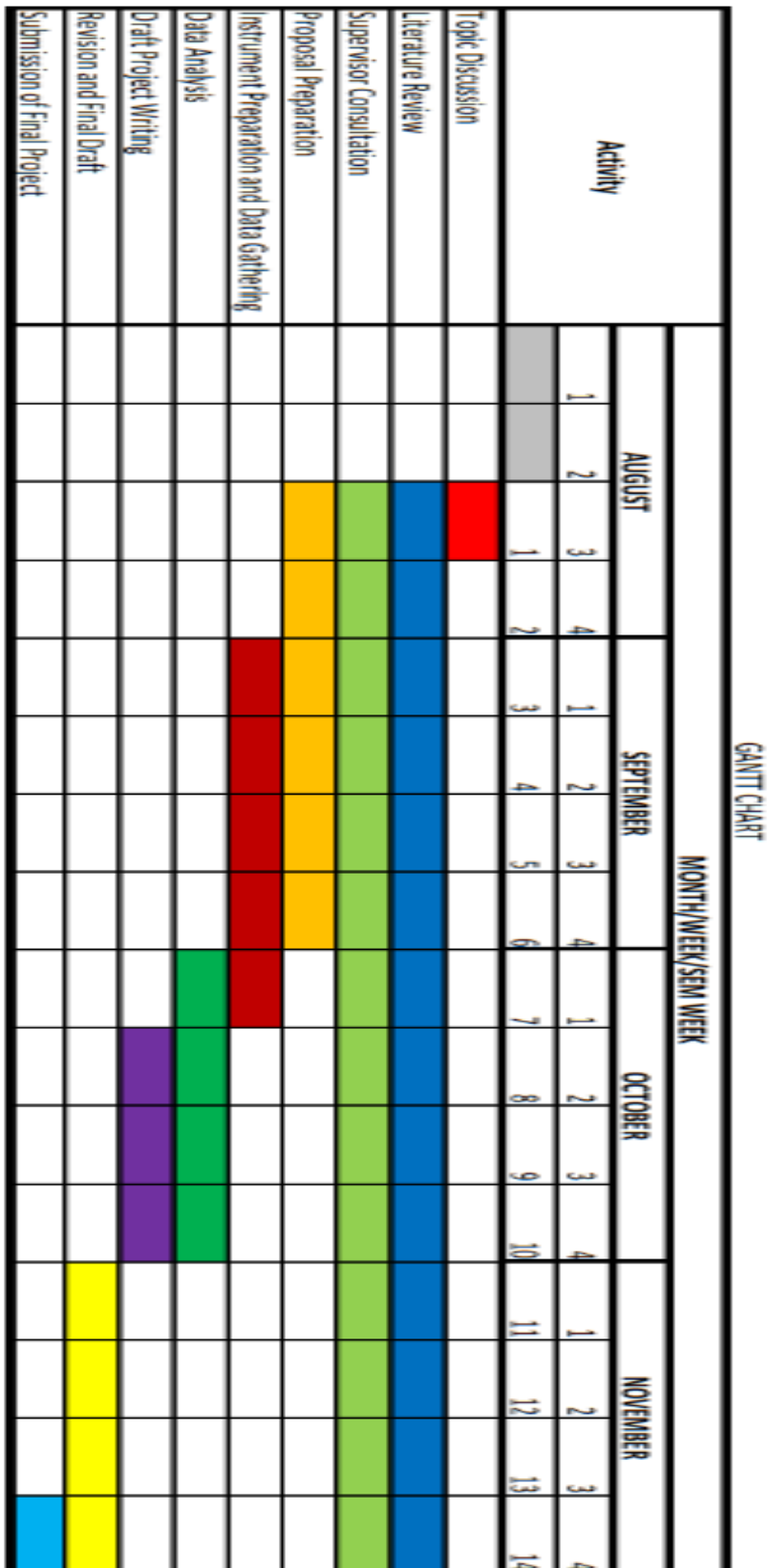
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GANTT CHART

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Activity	AUGUST		SEPTEMBER				OCTOBER				NOVEMBER			
MONTH/WEEK/SEM WEEK	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Topic Discussion	▒	▒	■(red)											
Literature Review			■(blue)	■(blue)	■(blue)	■(blue)	■(blue)	■(blue)	■(blue)	■(blue)	■(blue)	■(blue)	■(blue)	■(blue)
Supervisor Consultation			■(green)	■(green)	■(green)	■(green)	■(green)	■(green)	■(green)	■(green)	■(green)	■(green)	■(green)	■(green)
Proposal Preparation			■(orange)	■(orange)	■(orange)	■(orange)								
Instrument Preparation and Data Gathering					■(red)	■(red)	■(red)							
Data Analysis							■(green)	■(green)	■(green)	■(green)				
Draft Project Writing								■(purple)	■(purple)	■(purple)				
Revision and Final Draft											■(yellow)	■(yellow)	■(yellow)	■(yellow)
Submission of Final Project														■(cyan)

QUESTIONNAIRE GOOGLE FORM

ProTechnic Questionnaire

Sila jawab semua soalan.

Nama *

Your answer

Email *

Your answer

No. Matriks *

Your answer

Jabatan *

- ○ JPG
- ○ JKE
- ○ JKA
- ○ JKM

Semester *

○ 1

○ 2

○ 3

○ 4

○ 5

○ 6

○ Other: _____

Kediaman *

○ Kamsis

○ Rumah Sewa

○ Persendirian

Pengangkutan *

○ Ada

○ Tiada

Adakah anda rasa pencarian rumah/bilik sewa di sekitar Politeknik Shah Alam   *
sukar?

○ Ya

○ Tidak

Adakah pengangkutan persendirian keperluan bagi anda untuk ulang-alik ke politeknik dan kediaman? *

○ Ya

○ Tidak

Diantara pilihan dibawah, transaksi manakah yang memudahkan urusan sewa-menyewa anda sebagai pelajar? *

○ Low-transaction Fee (Bayaran Transaksi Rendah, Bayaran Ansuran)

○ High-cost Deposit (Deposit Kos Tinggi, Bayaran Down Payment)