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Bachelor of Computer Engineering Technology (Computer Systems) with Honours

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DEVELOPMENT OF HOSTEL COMPLAINTS SYSTEM FOR UTeM USING PHP MySQL DATABASE

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A project report submitted in partial fulfillment of the requirements for the degree of Bachelor of Computer Engineering Technology (Computer Systems) with Honours



UNIVERSITI TEKNIKAL MALAYSIA MELAKA

DECLARATION

I declare that this project report entitled "Development of Hostel Complaints System for UTeM using PHP MySQL Database" is the result of my own research except as cited in the references. The project report has not been accepted for any degree and is not concurrently submitted in candidature of any other degree.



APPROVAL

I hereby declare that I have checked this project report and in my opinion, this project report is adequate in terms of scope and quality for the award of the degree of Bachelor of Computer Engineering Technology (Computer Systems) with Honours.

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DEDICATION

To begin, I would want to express my gratitude to Allah SWT for bestowing upon me strength, passion, time, mental strength, abilities, health, and protection.

This project is dedicated to my loved ones, who have been my pillars of support and inspiration throughout the most trying times of working on it. When I needed it most, they were there for me every step of the way.

Thank you to my supervisor, who has been a tremendous help to me while working on this project. He is always there for me, even when I'm feeling low, and he doesn't make me feel



ABSTRACT

In the current era of technology, all management is typically managed by using an appropriate database. In this article, a UTeM hostel web-based complaint system was developed. This project aims to create a system called "Hostel Complaint System for UTeM" that can be accessed by student, admin and technician. This method may be helpful for users to report online regarding damaged equipment in the hostel. The idea comes when all students have difficulty complaining about the damage in their room or hostel since all students must come to the hostel office first before writing manually about the damage to the hostel. Furthermore, this outdated approach often causes delays in repair time because sometimes the complaint forms kept in the administrative office were missing or the administrator forgets to submit the complaints to the technician. Therefore, all these issues can be addressed with this system. This system uses a MySQL connection database with PHP language and use XAMPP as a server platform. This system uses XAMPP as a local host server as a testing development. This project has successfully functional for all three users which is admin, student and technician. To implement this project, it should be uploaded to the actual domain server so that it can be used for desktop and phone.

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فيكنيكل مليسيا ملاك

ABSTRAK

Pada era teknologi sekarang, semua pengurusan biasanya dikendalikan dengan menggunakan pangkalan data yang sesuai. Dalam artikel ini, sistem aduan berasaskan web asrama UTeM telah dibangunkan. Projek ini bertujuan untuk mewujudkan sistem yang disebut "Sistem Aduan Asrama untuk UTeM" yang dapat diakses oleh pelajar, pentadbir dan juruteknik. Kaedah ini mungkin berguna bagi pengguna untuk melaporkan secara dalam talian mengenai peralatan yang rosak di asrama. Idea ini timbul apabila semua pelajar mempunyai kesukaran untuk mengadu tentang kerosakan bilik atau asrama mereka kerana semua pelajar mesti datang ke pejabat asrama terlebih dahulu sebelum menulis secara manual mengenai kerosakan di asrama. Selain itu, pendekatan yang ketinggalan zaman ini sering menyebabkan kelewatan masa pembaikan kerana kadangkala borang aduan disimpan dalam pentadbiran pejabat hilang atau pentadbir lupa untuk mengemukakan aduan kepada juruteknik. Oleh itu, semua masalah ini dapat diatasi dengan sistem ini. Sistem ini menggunakan pangkalan data sambungan MySQL dengan bahasa PHP dan menggunakan XAMPP sebagai platform pelayan. Sistem ini menggunakan XAMPP sebagai pelayan hos tempatan sebagai pembangunan ujian. Projek ini telah berjaya berfungsi untuk ketiga-tiga pengguna iaitu pentadbir, pelajar dan juruteknik. Untuk melaksanakan projek ini, ia harus dimuat naik ke pelayan domain sebenar supaya ia boleh digunakan untuk desktop dan telefon.

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Thank you to my supervisor, Mr Radi Husin bin Ramlee, for his invaluable assistance, words of wisdom and patience as we worked together in implementing this system.

In addition, I owe a debt of gratitude to UTeM and FTKEE for their assistance in making this project a reality. I would also want to thank my fellow 4BEEC students for their openness to share their ideas and opinions on the project.

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CHAPTER 1

INTRODUCTION

1.1 Background

A hostel complaints system is a set of procedures used by institutions to deal with complaints by students and resolve conflicts. Although managing complaints is difficult, an institution's performance can be measured by how quickly it responds to student complaints. The UTeM hostel is one of the institutions that receives complaints from students on a daily basis. They currently still use a manual form to file a complaint and the damage can take up to three days to be resolved. This might cause mistakes and make it difficult for the administrator to keep track of and manage everything in the hostel. Students have to meet with the administration at the hostel office for any complaints and wait a few days to guarantee the damage is fixed within the current system. For students with busy schedules, this is a waste of time. Although UTeM already provides full-facilities accommodations for students placed in the Durian Tunggal main campus, there are some UTeM's students still have to face the problems of damaged facilities in their hostel such as clogged sink, broken lamp and poor condition of door. To solve this problem, the project will develop a system to make it easier for UTeM students to lodge complaints online on damaged facilities in hostel. On top of that, this system will help them to make complaints through UTeM official website anytime and anywhere. Besides, it will be easier for the administration to check the list of complaints and its details and then assign the complaints to technicians. It will also lead the technicians to do the maintenance as soon as possible and update progress. Indirectly, this technique can help in saving the environment by reducing the usage of paper.

1.2 Problem Statement

The paper-based complaints system for hostels is inconvenient for both administrators and students. Keeping up with the database and responding to repair requests are both experiencing problems. As for UTeM, all students face problems to make a complaint about the problem in their room or toilet in the hostel since they have limit of time. Students have to go to the class in the morning and come back to the hostel in the evening. So, they do not have enough time to report the problems since the hostel's office only open from 8 A.M. until 5 P.M. and break during lunch time. There are also some students that have to go to their faculty which is outside of the main campus in Durian Tunggal everyday such as FTK, FKM and FPTT students. This situation also become a hassle for all those students since they have to go to the faculty as early as 7.30 A.M. when the office is not open yet since they have to follow the UTeM bus's schedule. Furthermore, usually they will return to the hostel by five or six in the evening when the office already closed. Thus, the problem here is these students do not have free time to go to the office to make complaints. Therefore, this project will utilize the web application as the medium to replace the paper-based complaint form by using PHP and MySQL web application so all students can make the complaints through UTeM official website anytime and anywhere. On the other hand, they do not have to wait for a long time for the problem to be solved since this system will make sure the technician will repair the problems in the hostel in the estimated time.

1.3 Project Objective

The main objectives of this project are:

- a) To develop a hostel complaints system for UTeM by using PHP and MySQL.
- b) To develop a web-based complaint system for hostel's students with a proper database.
- c) To give access for UTeM's hostel student to check the progress of their complaints.

1.4 Scope of Project

The scopes of work for the project include the following areas:

- a) This complaint system is specific for UTeM's hostel only.
- b) All data will be stored in MySQL and phpMyAdmin.
- c) The system can be accessed by students, admin and technician.
- d) Only admin can view the complaint list by all students, assign the complaints to certain technician and view the progress done by technician.
- e) Technicians can only view the tasks that already assigned for them and its details then update the progress.
- f) Students can make complaint, edit and delete the complaints that have been made and check the complaint's status

CHAPTER 2

LITERATURE REVIEW

2.1 Introduction

Analysis from different sources linked to a given research subject may be discussed as part of the literature review. This chapter also contains current knowledge, theoretical, and methodological contributions on a specific issue for this project. As part of the research brand, this chapter will explain the relationship between the previous study and the current study. Prior research in the field is researched in order to gain a better understanding and a suitable plan on how to improve this project. Articles, journals, theses, books, internet tools, newspapers, and other related sources that can be cited for this issue are the focus of the literature review.

2.2 Past Related Project Research

2.2.1 Think Hostel Maintenance System (THMS) Using Dynamic Graphic – 2007

Saifulnizam (2007) proposed a paper on the use of dynamic graphics as a medium of issue reporting instead of utilizing the text. The goal of this research is to use graphical images to report problems in the hostel maintenance system. This system might be used to record accommodation issues, assign tasks to the appropriate person, and track the issue's resolution. The idea of this medium comes since dynamic graphic has been commonly applied by the other web based system notably in weather and natural catastrophe prediction system[1]. According to the author, web pages that combine text with pictures is the most effective way to improve the user's interest[1]. The text-based system only benefits the people who know the technical thing in one field of technology and some other people might be not understand what is all about[1]. National Weather Services is one system that uses dynamic visual mapping. The National Weather Service has utilised this type of technology to predict weather and sound warnings in earthquake-prone areas in the United States.



Source: www.nws.noaa.gov



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Based on Figure 2.2 above, this is one of the results of this system which is for administrator module. Administrator was able to choose which block, floor, house and room to be viewed by map. The system will display a map of the specific house when the administrator selects the relevant block, floor, and home. As a conclusion, this THMS were successfully build and able to transform the usage of paper-based into electronic means and the reports could be reviewed graphically and dynamically. Even though this THMS were success, there are several aspects of the project could be improved to make it more robust in terms of usability and functionality such as mobile integration was recommended by author to enable students to view and use the whole system via PDA or other mobile gadgets.

2.2.2 Web Application for Complaint Tracking and Resolving – 2017

This research focus on how to track complaints by develop web application to handle a variety of complaints at the hostel and college. The system's objective is to simplify the organizing, monitoring, management, and handling of complaints while also providing enterprises with a helpful tool for tracking complaints, identifying problem areas, and improving service. This method is internet-based. This system is divided into three components, each of which allows users to submit a complaint along with a photo, which is then handled by the appropriate authorities[2]. Users may view the progress of past complaints and provide comments to the system based on the quality of the service. According to Alve et al., (2017), sometimes responsible persons fail to settle the issues that have been reported in a timely manner, and higher authorities are unaware of this. So, this web application allows administrators to access to all complaints from all categories as well as feedbacks given by users and can take necessary action to enhance the service's quality.

This web application has two modules: one for the user and another for the administrator/authority. The Figure 2.3 below shows the flow of user side from log in to check status and the Figure 2.4 shows the flow of Admin/Authority side from selection to update.



Figure 2.3 Flow of User side[2]



Figure 2.4 Flow of Admin/Authority side[2]

After user register and log in into the system, user can make and post complaint from the complaint form given as shows in Figure 2.3.

and the second s		
TERI TERI	Complaint Required Fields Complaint Type Hostel Complaint Subtype	
) ملاك	تيكنيكل مليسيد SITI TEKNIKAL MALA	اونيوم سيتي SIA MELAKA
	Date When Problem Occured	
	Hostel Name	
	Girls Hostel FE	
	Room No*	
	1	•
	Upload Photo Here Browse No file selected.	
	Post Complaint	

Figure 2.5 Complaint form for user[2]

Conclusively, this system considered successful since it achieves the objectives but this web applications is too simple and basic.

2.2.3 Integration Telegram Bot on E-Complaint Applications in College – 2018

M A Rosid et. al, (2018) proposed a research attempt to connect a telegram sender's application service with an e-complaint application at a college. The benefit of this application is users can easily submit a complaint via Telegram without have to visit the E-compliant application URL since the Telegram will then be routed to the E-complaint application[3]. IoT which represent for Internet of Things play the main role for this application to be successful since it allows the connection between Telegram smartphone messenger and the Arduino platform using Telegram Bot[3]. This paper's major contribution was to show the possibilities of Telegram apps built on IoT using the Bot Telegram API on various platforms for communication between web platforms and Telegram.

Based on the experimental methods in this article, Telegram API was used to build the Telegram Bot. Then, the Bot token (UmsidaBot) was used to allow the communications between the Telegram Bot and e-Complaint application. Referring to the Figure 2.6, we can see that the system is divided into two flows. The user's complaint information was transmitted to the telegram bot for the first flow. The telegram is then used to convey the message to the e-complaint server. To ensure that complaints are regularly updated, the ecomplaint system must be updated periodically. When the e-complaint server gets a message from the user, it sends a response to the telegram, which then delivers the response to the user.



Figure 2.6 Architecture of Bot token[3]

2.2.4 Hostel Management System with RFID – 2018

This project is anticipated to minimize people's labor and make the distribution of hostels simpler for students and hostel managers with the aid of the hostel web application, pick students from the waiting list and mess accounts, discharge generation, complaint registration and so on[4]. The Hostel Management System is an internet website designed to manage various activities in the hostel. With a user-friendly GUI, it is effortless to automate, organize and manage all operations to administrate hostel bureau[4]. The website will be a massive relief to the staff. It is advantageous in big institutional organizations with a high number of hostels. In this system, four languages were used to develop the website which is HTML, CSS, JavaScript and PHP. Analyzing the inadequacies of the current system and designing a computerized system with a user-friendly GUI and efficient performance will assist in the resolution of the current system's challenges.

Radio Frequency Identification (RFID) labels were first developed to replace barcode readers in supply chains. RFID tags function as the RFID device's receiver, emitting electromagnetic radiation that induces a current in the tag's antenna. RFID technology has the potential to become widely used sooner rather than later. It is now being used efficiently as a component of inventory network management to monitor. It enables us to monitor any material, object, or human person by applying it correctly, and it also allows us to save time without the participation of any human effort. The planned system's primary goal is to assist in the automation of fundamental hostel administration functions. The actual hostel administration operations include entering student information and other data, enrolling complaints on the complaints page, and monitoring student mobility using RFID.



Figure 2.7 System Architecture[4]

Based on the Figure 2.7 above, there are three different modules which is administrator, employee/warden and student. Some of the functionalities can also be used in my project since there are three users and there is complaint function. The only downside of this system is the current programming's functioning demands an appropriate approach to programming progress

2.2.5 Smart Complaint Management System (SCMS) – 2018

Some customers may feel unsatisfied with the service when they receive the service delay, do not know how the complaint can be filed, and also have difficulties with the present complaint processing within businesses. The creators of this project have thus built the Smart Complaint Management System (SCMS), which includes the mobile, chat board and online application, to resolve customer disappointment. Furthermore, the SCMS features a service that categorizes the complaint and then automatically sends it to the appropriate department and service that finds a similar issue to avoid a repeated complaint.

Customers' complaints are increasingly crucial to the firm. Thus it is imperative that it pay attention to them and deal with any issues quickly.



Figure 2.8 Complaint Management Process[5]

A complaint management process is a series of procedures used in businesses to address complaints and address problems. Figure 2.8 depicts the complaint handling process.



The complainant reports the problem or complaints using the mobile app or chatbot. The complaint was then directed to the cloud computing system, which analysed it and saved the data in a database. The web application retrieves all classified complaints from the database on the staff side, allowing the responsible individual to view all open complaints via the system dashboard. Additionally, the liable individual may take notes on the remedial procedure and update the complaint status before returning to the complainant. Figures below are some of the interface designs for this system.



Figure 2.10 Mobile Application of Home Page (Left) and Complaint Status Page (Right) [5]

	([0]		
and the second se				
SCMS FOR STAFF	Q C.Search Account Dropdown - Log out			
DANNER CONTANTS	The Second Completer - Conjugated	Softby/Recenty + Ranger Lait	Week * Qilourn	
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	2 Air conditioner is too cold, can you higher the temperature?	(T204 2018-02-21 22:47:31	Engineer Pend	ing 🕑 🖊
She and	3 Air conditioner is too hot	1T334 2018-02-21 22-47-54	Engineer Pend	ing 🕑 🏕
	4 Air conditioner leaking water and not cooling	1T302 2018-02-21 22-48-33	Engineer Pend	ing 🕑 🏕
A recon	5 Bidet hanger is broken in the first room	1T107 2018-02-21 22-48-52	Engineer Pend	ing 🕑 🖊

Figure 2.11 Web Application of Manage Complaint Page for Engineer Department[5]

As a conclusion for this system, the test results indicate that it has the potential to significantly reduce complaint processing time and procedures, increase the channel for filing complaints, and enhance the channel for progress reporting and monitoring the status of the complaint.

2.2.6 The Android Based Mobile Application to Manage Student Complaints – 2020

The researchers created a mobile Android application to manage student complaints in this study. With mobile applications, the administration can avoid the loss of complaint forms and keep track of the registrations. This technology provides comments and alerts directly to students' cell phones. The mobile phone is a frequently used device, and it does not take much time to use the mobile app. The biggest difference between manual and automated complaints is throughout the procedure. The existing approach is longer and more inefficient than mobile apps, which will shorten the length of time and give the students a faster answer. The creation of PNSCares, a mobile app for managing student concerns is discussed in this paper. They used Android to construct PNSCares as a mobile platform. Android is commonly utilised at Politeknik Nilai as a result of a brief survey conducted by the HEP officer himself [6]. Figure 2.1.2 shows the comparison between the three existing complaint systems and Figure 2.1.3 is an overview of PNSCares activity diagram.

No.	Functions	eAduan (UiTM)	eAduan (UMK)	eAduan (USM)
1	Sign Up	xv, c	۱و دیو x رست	Х
2	Login	1 V. Q	X	X
3	Make complaint	1	1	1
- 4J \	Choose category of complaint	AL MANAYSI		1
5	Upload picture	х	X	х
6	Auto date/time	1	X	х
7	List of history	1	X	х
8	Received notification	X	X	X
9	Check feedback	1	~	1

Figure 2.12 Comparison between existing complaint system[6]



Figure 2.13 An overview of PNSCares activity diagram[6]

Based on the SUS results and user testing, they determined that PNSC ares is a musthave mobile app at the institution. The applications are simple to use, user-friendly, and wellfunctioning. The developers were able to create a prototype of PNSC ares by adhering to the ten (10) guidelines for successful complaint processing. User Focused, Visibility, Accessibility, Responsiveness, Objectivity and Fairness, Confidentiality, Remedy, Review, Accountability, and Continuous Improvement are the principles[6]. The eight (8) previously listed principles do not include the Remedy and Review.

2.2.7 Design and Implementation of Hostel Management System Using Java and MySQL – 2020

This project encourages students and the management group to save records of all things in hostels. This application needs students and administrators to log in data via the application dashboard to quickly view information on their hostel room registration, fees payment, student records and update as needed. This project works in the languages JAVA and SQL. JAVA is an object-oriented programming language that has minimal implementing requirements and SQL is a structured query language which allows you to access and manage a database[7].



Figure 2.14 Data Flowchart of registration process[7]



Figure 2.15 Data Flow Diagram[7]

The proposed system consists of three different modules which is administrator module, warden module and student module. One of the advantages of the suggested system is that the existing Hostel Management System is highly user friendly and efficient. In addition, the database use makes it easy and fluent to retrieve data. Eventually, this project also meets the aims.

2.3 Comparison Table of the Past Project Related to Hostel Complaint System

	ALA	YSIA	Characteristics				
No.	Title	Year	Method used	Interface	User friendly	Security	Feedback Space
1.	Think Hostel Maintenance System (THMS) Using Dynamic Graphic	2007	Dynamic Graphic	Good	Yes	Yes	No
2.	Web Application for Complaint Tracking and Resolving	2017	Not stated	Too simple	Yes	No	Yes
3.	Integration Telegram Bot on E- Complaint Applications in College	2018	Telegram Bot	Fixed	Yes	Yes	No
4.	Hostel Management System with RFID	2018	PHP, MySQL, RFID	Not displayed	Yes	Yes	No
5.	Smart Complaint Management System (SCMS)	2018	Mobile application, web application	Interesting	Yes SIA MEI	Yes	No
6.	The Android Based Mobile Application to Manage Student Complaints	2020	Android based	Not displayed	Yes	Yes	Yes
7.	Design and Implementation of Hostel Management System Using Java and MySQL	2020	Java, MySQL	Too Simple	No	No	No

Table 2-1 Comparison table

2.4 Summary

Online complaints system is one of the crucial technologies that should be implemented to all organizations out there. By reading the complaints, action can be taken and some improvement to the organization can be applied. Based on the past related project research above, some systems can be applied in my hostel complaints system project. As example, the web-based interface by using PHP and MySQL as mentioned in the title. There are some functionalities that I can add to my system for the admin, student and technician such as managing password, feedback space and dynamic graphic to send the pictures of the location or damaged facilities. More details about my system will be discussed in the next

chapter.



CHAPTER 3

METHODOLOGY

3.1 Introduction

In this chapter, we will go through the methods that we have been conducted to get the preliminary results of this project. All work process, methodology and techniques which were implemented in developing the hostel complaint system will be describe in this chapter. The objective of this project is to develop a hostel complaints system for UTeM by using PHP and MySQL. Basically, four types of software were used to build this system which are PHP, MySQL and XAMPP and HTML. The next section will provide an overview of the work process before delving into the specifics of software development.

3.2 Design of Experimental

The flowchart of Figure 3.1 shows that the flow of process of this project. The project is started by doing some research about the title which is 'Development of Hostel Complaints System for UTeM using PHP MySQL Database'. Many articles have been found about this system, but only a few of them were about hostel complaints. Those articles have been reviewed in the chapter 2, literature review. The next step after doing research is the problem statements and objectives have been decided and was written in chapter 1, introduction. After I understand the flow of this project by referring to a few videos in YouTube, the flowchart was built to make us more understand about the whole process and how the system works. Then, I have been looking for suitable codes that can be used for this project by using 'bottom-up approach' method. After the codes were found, I will discuss about the flowchart and codes with my supervisor to ask for his guidance and troubleshoots

any errors before the codes were modified and run corresponding to the title. Then, I will troubleshoot the codes again and again until the codes were successfully function. Lastly, the results were analyzed with its data and report was written.



Figure 3.1 Flowchart of project
3.3 Elaboration of the Flowchart

This system consists of three users which is admins, students and technicians. Each flowchart will be elaborated below to make sure we become more understand about each user's page.





Figure 3.2 Flowchart of Admins

Based on Figure 3.2, to log in the system, admins have to enter the username and password. Then, if both username and password is correct, the system will display the front page or otherwise the admins have to log in again with the correct username and password. At the front page, admins have to choose between three options which is the account management, the complaint management and log out. If the admins choose account management, admin can view the technician list, user or student list and add new account. If admin choose the complaint management, admin can view new complaint, in-progress complaint and old complaint. For the new complaint part, admin have to assign the complaint to the certain technician suitable with their job scope.



3.3.2 Students



Figure 3.3 Flowchart of Students

As for students, they have to use their username and their password to log in. After they already log in into the system, the front page will be shown with three options which is make new complaint, view report history and log out. To make a complaint, they have to fill the complaint's details in the form such as email, date of complaint, phone number, location and problem description. After the complaint has successfully submitted, they were brought back to the front page and they can choose another option which is view report history or just log out. In the view report history part, they can also check the complaint status and progress updated by technician, edit the old complaint or delete complaint.

3.3.3 Technician



Figure 3.4 Flowchart of Technicians

The same way used for technicians where they have to log in using their username and password. Then, the front page will also show three options which is to view task assigned, view task assigned history, and log out. Their tasks will be shown when admins have assigned the complaint to them and they need to do the maintenance as soon as possible since admin and student can check their progress day by day. Besides, technician also have to update their progress for the maintenance.

3.4 Implementations of Software and Languages

There are three types of softwares were used to build this system which are phpMyAdmin, MySQL and XAMPP and two types of languages which are PHP and HTML. All these softwares must be installed to make sure the system can be run and function well.

3.4.1 PhpMyAdmin

PhpMyAdmin is the PHP-written open-source software utility. It is a third-party tool for managing tables and data in the database that supports several MariaDB and MySQL operations. The primary function of phpMyAdmin is to manage MySQL web management. PhpMyAdmin is the most common MySQL database administration tool. We may use this tool to create, update, change, delete, import, and export MySQL database tables with this program. These actions can be performed via a user interface while any SQL query is still being executed. PhpMyAdmin provides a wide variety of operations on MySQL and MariaDB, such as managing databases, relationships, tables, columns, indexes, permissions and users.



Figure 3.5 Logo of phpMyAdmin

3.4.2 MySQL

MySQL is a relational database management system (DBMS) that stores data in tables, which are database objects. A table is a collection of linked data items comprised of columns and rows. When it comes to classifying data, databases come in useful. We may query a database for detailed information and get a record set in response using MySQL. MySQL is advantageous in that it can be scaled down to suit embedded database applications. MySQL is the de-facto industry standard database for websites that handle large quantities of data and have many end-users (such as Yahoo and Google). As a consequence of this reputation, many people think MySQL can only operate small to medium-sized systems.



3.4.3 XAMPP

XAMPP are the acronyms for Cross-Platform (X), Apache (A), MySQL (M), PHP (P), and Perl (P). It is a compact and lightweight Apache package that simplifies the process of setting up a local web server for testing purposes. It is a development tool that enables web designers and programmers to test their work on their computers without an internet connection. Additionally, XAMPP is cross-platform, meaning it may operate on any operating system, including Linux, Mac OS X, and Windows. Since most existing server installation systems share many of the same components as XAMPP, migrating from a local test server to a live server is simple.



Figure 3.7 Logo of XAMPP

3.4.4 PHP

PHP is a server-side programming language that is used to create both static and dynamic webpages as well as online applications. PHP is an acronym for Hypertext Preprocessor, which was previously abbreviated for Personal Home Pages. To run a PHP script, we must have PHP installed on the server where we want to run it. A web browser is all that is needed to access the PHP scripts on the client machines. The file ending ".php" signifies a PHP file, which contains PHP tags.

3.4.5 HTML

HTML, or Hypertext Markup Language, is a markup language used to describe the structure of publications for retrieval over the Internet using World Wide Web technologies (WWW). HTML utilizes a range of tags and attributes to define the web page structure and layout. The head and body are the two main elements of every HTML page. The HTML tags are not displayed in the browser but are used to understand the website's content. A browser would not be able to format an HTML page. HTML is the World Wide Web Consortium (W3C), which is usually adopted by major browsers such as Internet Explorer.

CHAPTER 4

RESULTS AND DISCUSSIONS

4.1 Introduction

This chapter presents on how to use Hostel Complaints System for UTeM and how it works for all three users which is admin, technician and student. Besides that, this chapter will also show and explains the database and some source codes of the systems.

4.2 Interface of The System

ملاك

AALAYS/A

Firstly, we have to make sure all the files and database that we need to run this system is complete and put in the htdocs folder in xampp files. Then we can run it by using link <u>http://localhost/compsys/index.php</u>. Noted that the 'compsys' is the example of the folder name in htdocs and it need to be included in the source codes.

اويوم سيخ

UNIVERSITI	TEKUTeM Hostel Complaint	MELAKA
	System	
	Sign in to start your session	
	Username	
	Password	
	Sign In	
	Register a new Account	
		_

Figure 4.1 Login page

To login, all the users need to insert their username and password. For students, they needs to register their account first before they login if they do not have any account yet.

Uy S	
Reg	ister
Username	<u>•</u>
Password	A
Retype password	A

Figure 4.2 Register Page

For register page, students just need to input their username, password and retype the password and make sure both of the passwords is same.

Lieu		
Complaint System	≓ //home	admin 👻
admin	اوينوم سيخ تنكنك ملسbashboard	Home / Dashboard
🕰 Dashboard	2	
🐣 Account management 💙	Total Technician ITI TEKNIKAL MALAYSIA MELAKA	
Luser/Student List		
🚨 Technician List	3	
+ Add new Acc	Total User/Student	
🖹 Complaint management		
🖽 New		
In Progress		
🖽 Old		

Figure 4.3 Admin Front Page

Based the figure 4.2 above, admin can see total numbers of technician and students at the admin front page. Then, admin can choose either to click the account management, complaint management or log out.

Complaint System	≡ Home				admin 👻
admin	User List				Home / User List
Dashboard	Show 10 🗢 entries			Search:	
🐣 Account management 💙	No	↑ ↓ Username	$\uparrow \downarrow$	Action	↑↓
Luser/Student List	1	B081810492		Delete	
+ Add new Acc	2	Asliza		Delete	
Complaint management	No	Username		Action	
	Showing 1 to 2 of 2 entries				Previous 1 Next
	Copyright © 2021 Complaint Sys	stem. All rights reserved.			Version 0.1

Figure 4.4 Admin Page - User/Student List

For figure 4.3 above, it show the page of account management in admin page for user/student

list. Admin can de	elete the user or stu	dent from the list.		
IT TER				
Complaint System	E Home			admin 👻
admin	Technician List			Home / Technician List
2 Dashboard	Show 10 ¢ entries	سيتي ٽيڪنيڪ	وينونر search:	
🖶 Account management <	VERSITI TEK	VSername NIKAL MALAYSIA M	Action Delete	^↓
	2	Amir	Delete	
	No	Username	Action	
	Showing 1 to 2 of 2 entries			Previous 1 Next
	Copyright © 2021 Complaint System.	All rights reserved.		Version 0.1

Figure 4.5 Admin Page - Technician List

Same as the user/student list, admin can also view the list of technician and delete their account. Technician account can only be registered by admin. Technician cannot register the account by themselves.

Complaint System	≡ Home	admin 🔻
admin	Add New Acc	Home / Add Acc
🕐 Dashboard	Add New Acc	
🐣 Account management 🤇	Username	
🖹 Complaint management<	Enter Username	
	Password	
	Password	
	Confirm Password	
	Confirm Password	
	Role	
	Select Role 🗸	
	Submit	

Figure 4.6 Admin Page - Add New Account

If admin click add new account, admin can register a new account and select a role which is

either for technici	an or s	student.		T		M		
Complaint System	。 デディー Hor	ne						admin 👻
admin 2 Dashboard	New Co	omplaint • • entries	ڪنيڪل.	بي تيھ	; 	ونبوبه	Ho Search:	ome / New Complaint
Account management Account management User/Student List	V _{No} ≁	User 🗠	EaKNIKAL M	Date Complaint	Phone No	Residential ᠰ	Location 💠	Complaint Category ↑↓
E Technician List	• 1	B081810492	B081810492@student.utem.edu.my	03 Jan 2022 : 11:01:02	0183597921	Satria	Lekiu SQ-Q- 3-2.E	FACILITY
+ Add new Acc	Proble	m Description D	loor cannot be locked					
	Status	Assign						
🖽 In Progress	No	User	Email	Date Complaint	Phone No	Residential	Location	Complaint Category
⊞ Old	Showing	1 to 1 of 1 entries	s				Prev	ious 1 Next

Figure 4.7 Admin Page - New Complaint

For the new complaint part, admin have to assign the complaint made by students to the certain technician based on their job scope.

admin	Assign Task	Home / Assign Task
Dashboard	Task	
🛎 Account management 🤇	Residential	
🖹 Complaint management<	Satria	
	Location	
	Lekiu SQ-Q-3-2.E	
	Complaint Category	
	FACILITY	
	Problem Description	
	Door cannot be locked	
	Assign To:	
	Technician	
	Amir	

Figure 4.8 Admin Page - Assign Task

Based on the figure 4.7, admin can view the details of each complaint made by students and then assign the complaint to suitable technician based on the complaint category.

E						H			
Complaint System	Hom	e		<u> </u>					admin 👻
admin admin Dashboard	n-Goi Show 10	ng Comp + entries	laint	کنید	-	سيتى	نيوس	Home , Search:	On-Going Complaint
Account management <		an 1777 1. 1		<	Date	Phone		1. Mar. 11	Complaint
Complaint management	NO T	User	Email	<u>(AL N</u>	Complaint	SAT	Residential	Location TV	Category 🖘
	• 1	B081810492	B081810492@studer	nt.utem.edu.my	03 Jan 2022 : 11:01:02	0183597921	Satria	Lekiu SQ-Q- 3-2.E	FACILITY
	Probler	n Description D	oor cannot be locked						
	Status	On-Going							
	Progres	s Door has be	en checked						
	Person	In Charge Amir							
	No	User	Email		Date Complaint	Phone No	Residential	Location	Complaint Category
	Showing 1	L to 1 of 1 entries	5					Prev	ious 1 Next

Figure 4.9 Admin Page - On-going Complaint

After admin have assigned the complaint to certain technician, technician can view the task assigned to them and update the progress. Then, the updated progress will be shown on the admin page at on-going complaint section.

Complaint System	≡ Hon	ne						admin 👻
admin	Old Co	mplaint					н	ome / Old Complaint
🕜 Dashboard	Show 10	entries					Search:	
Account management <	No ≁↓	User 🖴	Email 🖴	Date Complaint ↑↓	Phone No 🖴	Residential 🖘	Location $\uparrow \downarrow$	Complaint Category ↑↓
	• 1	B081810492	B081810492@student.utem.edu.my	03 Jan 2022 : 11:01:02	0183597921	Satria	Lekiu SQ-Q- 3-2.E	FACILITY
	Proble	m Description D	oor cannot be locked					
	Status	Work Done						
	Done B	y Amir						
	Solutio	Door knob l	has been replaced with the new one					
	No	User	Email	Date Complaint	Phone No	Residential	Location	Complaint Category
	Showing	1 to 1 of 1 entrie	S				Prev	ious 1 Next

Figure 4.10 Admin Page - Old Complaint

After technician choose 'work done' on the progress part, the complaint will be considered done and the complaint will be listed on the old complaint section of admin page.



Figure 4.11 Admin Page – Logout

For the last part of admin page, admin can also logout and update password for the 'admin' account. After logout, admin will be back to the login page.

Complaint System	≡ _{Hor}	E Home Asliza -						
	Report	History					н	ome / Report History
Dashboard	Show 10	● ♦ entries					Search:	
📰 New Complaint	No ≁⊹	Email 🔸	No Phone ↑↓	Date Complaint ↑↓	Residential ᠰ	Location $\uparrow \downarrow$	Complaint Category 🖴	Problem Description ↑↓
	• 1	B081810492@student.utem.edu.my	0183597921	03 Jan 2022 : 06:01:38	Satria	Lekiu SQ-Q- 3-2.E	TOILET	Flush cannot be used
	Status Progre Action	Work Done S Flush has been repaired Edit Delete						
	No	Email	No Phone	Date Complaint	Residential	Location	Complaint Category	Problem Description
	Showing	1 to 1 of 1 entries					Prev	ious 1 Next

Figure 4.12 Student Page

For student page, after student has login into their account, the page will show the report history where the old complaint that the student has made. Student still can edit or delete the complaint's details.

	11/00	
🖽 New Complaint		Email
	رك	Phone number
		0183597921
	UN	VRESIDENTIASITI TEKNIKAL MALAYSIA MELAKA
		Satria
		Location
		Lekiu SQ-Q-3-2.E
		Complaint category
		ELECTRICITY
		Problem Description
		Lamp keep blinking
		Send Report

Figure 4.13 Student Page - New Complaint

To make a new complaint, students have to fill the details in the form such as in the figure above. For the complaint category, student can choose either electricity, toilet, facility or others. Then, student can send the report to be checked by admin.

Asliza	Report	History					Home / Report Histor				
🕜 Dashboard	Show 10	Show 10 + entries Search									
New Complaint	No ↑↓	Email 🕂	No Phone 🖴	Date Complaint 🖴	Residential ∿	Location 斗	Complaint Category 🖴				
	• 1	B081810492@student.utem.edu.my	0183597921	03 Jan 2022 : 06:01:38	Satria	Lekiu SQ-Q-3- 2.E	TOILET				
	• ²	B081810492@student.utem.edu.my	0183597921	03 Jan 2022 : 07:01:31	Satria	Lekiu SQ-Q-3- 2.E	ELECTRICITY				
	Proble	Problem Description Lamp keep blinking									
	Status	Status Pending									
	Progre	SS									
	Action	Edit Delete									
	No	Email	No Phone	Date Complaint	Residential	Location	Complaint Category				
	Showing	1 to 2 of 2 entries					Previous 1 Next				

Figure 4.14 Student Page - Report History

After student has successfully send the report of the new complaint, student will be brought again to the report history and the new complaint will be shown with the pending status. Admin have to assign the complaint to technician first so that the technician can update the progress.

		30WD
 Dashboard New Complaint 	لك	Edit Complaint Email B081810492@student.utem.edu.my
	UN	VERSITI TEKNIKAL MALAYSIA MELAKA
		Residential
		Satria
		Location
		Lekiu SQ-Q-3-2.E
		Complaint Category
		ELECTRICITY
		Problem Description
		Lamp keep blinking
		Update

Figure 4.15 Student Page - Edit Complaint

Student can also edit the complaint's details as shown in the figure above and delete the complaint if they want.

Asliza	Report	Report History Home / Report History										
2 Dashboard	Show 10	entries	Search:									
New Complaint	No ≁↓	Email 🖴	No Phone 🖴	Date Complaint ↑↓	Residential ᠰ	Location ᠰ	Complaint Category 🖴	Problem Description 🖴				
	• 1	B081810492@student.utem.edu.my	0183597921	03 Jan 2022 : 06:01:38	Satria	Lekiu SQ-Q- 3-2.E	TOILET	Flush cannot be used				
	Status	Status Work Done										
	Progre	Progress Flush has been repaired										
	Action	Edit Delete										
	e ²	B081810492@student.utem.edu.my	0183597921	03 Jan 2022 : 07:01:31	Satria	Lekiu SQ-Q- 3-2.E	ELECTRICITY	Lamp keep blinking				
	Status	On-Going										
	Progres	ss Check completed										
	Action	Edit Delete	1									

Figure 4.16 Student Page - Report History After Updated

After the assigned technician has update the progress for the complaint, the status and progress will be shown as in figure 4.16. If the complaint is still in progress, it will state the status is still on-going with it progress statement. If the technician has complete the maintenance and update the status to 'Work Done', the status will be change to work done.

راك	Jol	کل ملیسی	کنیج	Ĩ	;č~	ومريه	اوز						
Complaint System	⊟ Hon	ne set set set set set set set set set se	1.5		<u> </u>	V		Asliza 👻					
Asliza	Report	port History TEKNIKAL MALAYSIA MELAKA											
		Logout											
2 Dashboard	Show 10	♦ entries					Search:						
New Complaint	No ≁↓	Email 🖴	No Phone 🖴	Date Complaint ↑↓	Residential ᠰ	Location ᠰ	Complaint Category ᠰ	Problem Description 🖴					
	• 1	B081810492@student.utem.edu.my	0183597921	03 Jan 2022 : 06:01:38	Satria	Lekiu SQ-Q- 3-2.E	TOILET	Flush cannot be used					
	Status	Work Done											
	Progre	ss Flush has been repaired											
	Action	Edit Delete											
	• ²	B081810492@student.utem.edu.my	0183597921	03 Jan 2022 : 07:01:31	Satria	Lekiu SQ-Q- 3-2.E	ELECTRICITY	Lamp keep blinking					
	Status	On-Going											
	Progre	ss Check completed											

Figure 4.17 Student Page – Logout

As in figure 4.17, student can also logout and update their password.

Complaint System	≡ _{Hon}	ne						Abu 👻			
	Task as	ssigned	Ł					Home / Task assigned			
2 Dashboard	Show 10 ¢ entries Search:										
History	No ↑↓	User 👈	Email 🖴	Date Complaint ↑↓	Phone No 🖴	Residential ᠰ	Location 🖴	Complaint Category 🖴			
	• 1	Asliza	B081810492@student.utem.edu.my	03 Jan 2022 : 07:01:31	0183597921	Satria	Lekiu SQ-Q- 3-2.E	ELECTRICITY			
	Proble	Problem Description Lamp keep blinking									
	Action Update status										
	No	User	Email	Date Complaint	Phone No	Residential	Location	Complaint Category			
	Showing 1 to 1 of 1 entries Previous 1 Next										
	Copyright	Copyright © 2021 Complaint System, All rights reserved. Version 0.									

Figure 4.18 Technician Page - Task Assigned

For technician, after they has been login by using username and password given by the admin, they can see the front page with task that have been assigned for them. Then, they can read the details and upgrade the progress as many times as they want.

Complaint System	اونوم سيتي نيڪنيڪل ملسن ^{am} مال	Abu 👻
Dashboard UMI History	Vipdate Progress TI TEKNIIKAL MALAY SIA ELAKA Progress Status In Progress Verse choose the Status In Progress Work Done Vipdate Stat	
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Figure 4.19 Technician Page - Update Progress

To update the progress, technician can choose between two options of the progress status which is 'In Progress' or 'Work Done'. After that, they can type the progress description in the box given. This progress description will be display on the admin and student page.

Complaint System	≡ Hon	ne						Abu 👻				
	Task As	ssigne	d History				Hom	e / Task Assigned History				
2 Dashboard	Show 10 ¢ entries Search:											
E History	No ↑↓	User 🖴	Email 🖴	Date Complaint ↑↓	Phone No 🖴	Residential ᠰ	Location 🖴	Complaint Category 🔨				
	• 1	Asliza	B081810492@student.utem.edu.my	03 Jan 2022 : 07:01:31	0183597921	Satria	Lekiu SQ-Q-3- 2.E	ELECTRICITY				
	Proble	Problem Description Lamp keep blinking										
	Solution Starter has been replaced with the new one											
	No	User	Email	Date Complaint	Phone No	Residential	Location	Complaint Category				
	Showing 1 to 1 of 1 entries Previous 1											
	Copyright @	Copyright © 2021 Complaint System. All rights reserved.										

Figure 4.20 Technician Page - Task Assigned History

Complaint that has be updated as a 'Work Done' will be reviewed in the task assigned history section in the technician page. Technician cannot edit the progress anymore once they have choose 'Work Done' for the progress status.

	0	3AIND										
Complaint Sy	rstem	≡ Høn	ne	1	12	. /						Abu 👻
Abu	2)	Task as	signe	als,	1	2 in	20	in.	ىيۇش	9	Upda	ate Password
						14		~~~	v - 4-		Logo	ut
Dashboard History	UN	Show 10	 entrie 		KNIK	AL M	ALAY	SIA I	MELAK	Search:		
		No ≁∿	User 🖴	Email 秒	Date Complaint ↑↓	Phone No 🖴	Residential ᠰ	Location ∿	Complaint Category ^	Problem Description	$ \leftrightarrow $	Action ∿
						Ν	Io data available ir	n table				
		No	User	Email	Date Complaint	Phone No	Residential	Location	Complaint Category	Problem Description		Status
		Showing	0 to 0 of 0 e	ntries							Previo	us Next
		Copyright @	2021 Com	plaint Syste	m. All rights reserv	ed.						Version 0.1

Figure 4.21 Technician Page – Logout

Lastly, if all the tasks that has be assigned for them is completed, the task assigned table will be empty. On the other hand, technician can also logout and update their password.

Complaint System	≡ Home	Abu 👻
Abu	Update Password	Home / Update Password
2 Dashboard	Update Password	
History	New Password Password Confirm Password Submit	
	Copyright © 2021 Complaint System. All rights reserved.	Version 0.1

Figure 4.22 Update Password Page

The figure above is the example of update password page. All users which is admin, student and technician can change their password.

4.3 Database of The System

Before proceeding to the source codes, first and foremost, a database of the system must be created to be implemented into the codes. The database for this system has been created by using phpMyAdmin. The figure below shows the tables of 'compsys' database that have been created to be implemented in the Hostel Complaints System for UTeM. The database consists of four tables which is *acc* that stand for account, complaint, *kediaman* which represent residential and role.

Table 🔺	Actio	on						Rows 😡	Туре
acc	*	Browse	M Structure	🖎 Search	🚰 i Insert	🗮 Empty	Drop	6	InnoDB
complaint	\Rightarrow	Browse	K Structure	👒 Search	≩•i Insert	🗮 Empty	🔵 Drop	3	InnoDB
kediaman	*	Browse	M Structure	🕞 Search	🚰 i Insert	🗮 Empty	Drop	0	InnoDB
role	\Rightarrow	Browse	🖌 Structure	👒 Search	≩ <mark>∔</mark> Insert	🗮 Empty	🔵 Drop	3	InnoDB
4 tables	Sum							12	InnoDB



←T→			~	id	username	password	role	timecreated 👳 1
	🥜 Edit	Copy	Delete	1	admin	admin	1	2022-01-10 23:08:29
	🥜 Edit	aria Copy	Delete	8	Ali	12345	2	2022-01-10 23:08:21
	🥜 Edit	Copy	Delete	9	Amir	12345	2	2022-01-10 23:08:15
	🥜 Edit	🛛 🖬 Copy	Delete	10	B081810492	12345	3	2022-01-10 23:08:08
	🥜 Edit	Copy	Delete	11	Asliza	12345	3	2022-01-10 23:07:54
	🖉 Edit	⊒ - ĕ Copy	Delete	12	Abu	12345	2	2022-01-10 23:07:40

Figure 4.24 Data for Account Table

Figure 4.24 above shows the data for account table. The table consists of five columns which is id, username, password, role and timecreated. This account table is for all the users account which is admin, students and technicians. When students register their account or when admin add new users in the admin page, the account will be added at this database table. The id will be the primary key where it wil uniquely identify each row in a table.



UNIVER Figure 4.25 Data for Complaint Table ELAKA

Based on figure 4.25 above, there are three columns for complaint table which is id, id_user, email, date_of_complaint, phone_no, kolej_kediaman, location, complaint_category, problem_description, status, id_technician, solution and timecreated. This data will be used when there is new complaint made by student. Other than that, the id_technician column will be updated when admin has assigned the task to certain technician. Lastly, the solution column will also be updated when technician has update the progress for each complaint.

		~	id	role_discription	timecreated
🥜 Edit	at Copy	Delete	1	Admin	2021-12-19 17:51:02
🥜 Edit	🚰 🖬 Copy	Delete	2	Technician	2021-12-19 17:51:02
🥜 Edit	≩ ∎ Copy	Delete	3	User	2021-12-19 17:51:08

Figure 4.26 Data for Role Table

The last table that will be used for this system is role table. This table consists of three columns which is id, role_discription and timecreated. The role_discription column is very important as it will be used when new account has been registered by student or added by admin. This three roles represent the users of this system which is admin, user(student) and technician. The id will be linked with account table and complaint table.



4.4 Source Code of The System

In this subchapter, some of the source codes will briefly discussed and explained.

Full codes will be included in the appendices.



Figure 4.27 Source Code of index.php for Admin

Figure 4.27 shows some of the codes of index.php for admin. Based on lines 78 until 83, its show the codes to run the SQL query/queries on table compsys.acc. Codes role='2' is represent the role for technician. When the SQL database can be connected with the system, it will show the total technician (line 86) at admin page. Lines 95 until 100 is to run the SQL query/queries on table compsys.acc for user since the code used is role='3'. This part will be display the total user/student (line 103) in admin page when the system can be connected with the SQL database.

Figure 4.28 below shows some of the codes for index.php for student where lines 75 until line 78 show the codes to run SQL query on table compsys.complaint using id_user. When the query has successfully connected with the SQL database, it will fetch all the data that have been filled by students in the complaint report. Next, codes line 93 until line 103 shows the status that will be updated by technician. There are four status were used which is 1 is for 'Pending', 2 is for 'Still in progress', 3 is for 'On-Going' or 4 is for 'Work Done'.

75	php</th
76	<pre>\$sq1 = "SELECT * FROM `complaint` Where id_user='\$idu' ";</pre>
77	<pre>\$result = \$conn->query(\$sql);</pre>
78	\$count=1;
79	
80	<pre>while(\$row = \$result->fetch_assoc()) {</pre>
81	?>
82	
83	php echo \$count;?
84	php echo \$row["email"];?
85	php echo \$row["phone_no"];?
86	<pre><?php echo date ("d M Y : h:m:s" , strtotime (\$row["date_of_complaint"]));?></pre>
87	php echo \$row["kolej_kediaman"];?
88	<pre><?php echo \$row["Location"];?></pre>
89	<pre>td class="desc"><?php echo \$row["Complain_category"];?></pre>
90	php echo \$row["Problem_discription"];?
91	d class="desc"> php</th
92	
93	if(\$row["status"]=1)
94	
95	echo "Pending";
96	<pre>}elseif(\$row["status"]==2)</pre>
97	
98	echo "Still in progress";
99	}elseif(\$row["status"]==3)
100	
101	echo "On-Going";
102	}else{
103	echo "Work Done";
104	
405	

Figure 4.28 Source Code of index.php for Student

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Figure 4.29 Source Code of index.php for Technician

Figure 4.29 shows some of the codes in index.php for technician. When technician want to update status of the task which is 'Still in progress' or 'On-Going', the database in complaint table will use id_technician and status columns and connect it with id variable in account table. Hence, it will fetch all the complaint's details from the required username.



Figure 4.30 Source Code of db.php

The db.php is really essential since all of other php codes for this system require to include this part at the beginning of the codes which is *'include 'process/db.php';'*. If we forgot to include this codes for each php file, the database cannot be connected and the system will be error when we run it. The servername at line 2 shows the server that we use for this system which is localhost. To log in, we need both username and password. The database name that was built in this system is compsys.

1	php</th
	session_start();
	<pre>include ("db.php");</pre>
	<pre>\$uname=\$_SESSION['username'];</pre>
	<pre>\$qry="SELECT * FROM acc WHERE username='\$uname'";</pre>
6	<pre>\$result=mysqli_query(\$conn,\$qry);</pre>
	<pre>\$row=mysqli_fetch_array(\$result,MYSQLI_ASSOC);</pre>
	{
	<pre>\$idu=\$row['id'];</pre>
10	<pre>\$name=\$row['username'];</pre>
11	}
12	if(! <i>isset</i> (\$uname)!= ''){
	echo "error ek";
14	<pre>header("location:/index.php");</pre>
15	}
16	?>

Figure 4.31 Source Code of usercheck.php

Besides db.php, usercheck.php is also one of required source code that should be included

in each php file to differentiate each user page based on id and username.



Figure 4.32 Source Code for Connect with db.php and usercheck.php

Figure 4.32 shows the source code used in the beginning of each php file that must be included so that the system can be connected with SQL database in phpMyAdmin and all the users can function as required.

4.5 Summary

This chapter explains the design of the Hostel Complaints System for UTeM and how to use it. Since this system is work without a domain, so we need to make sure we have XAMPP software and the related files with its database. Then, we must start the Apache and MySQL using the XAMPP software. By doing this, we can run the system smoothly using localhost. In other words, everyone that want to access this system must have the files and database. Without it, they cannot run this system at all. Thus, to make it easier for everyone to use this system, this system should be built with its domain and online server so that it can be used by everyone through the website link.



CHAPTER 5

CONCLUSION AND RECOMMENDATIONS

5.1 Conclusion

This system should be implemented by UTeM hostel admin since they are still using a manual way for students to make complaint. There are some advantages of this system which is this system can help student to make a complaint easier and student can also view the status of the complaints that have been submitted to the system. In this way, student don't need to go to the administrative office to take a complaint form and fill it. This system also helps the technicians to view all the complaints that have been assigned for them properly. Moreover, this system also helps to prevent the losing of data because all the complaints that have been submit by the complainant will be keep directly to the database and this can help admin to manage all of the complaints properly without any data loss problem.

5.2 Future Works UNIVERSITI TEKNIKAL MALAYSIA MELAKA

For future improvements, this system can be implemented as follows:

- Student can include images in their complaint form so that admin and technician can see the problem through the complaint form and technician can do the maintenance faster.
- ii) This system should be implemented for mobile applications so this system can be used for both Android and IOS.
- iii) This system should be upgrade to add a notification and alert functions for all the technician after each new complaint that have been received.

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APPENDICES

Appendix A Source Code of index.php for Admin

```
<?php
require('process/db.php');
require('process/usercheck.php');
?>
<html lang="en">
<head>
 <meta charset="utf-8">
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <?php include "title.php"; ?>
 <!-- Google Font: Source Sans Pro -->
 k rel="stylesheet"
href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,70
0&display=fallback">
 <!-- Font Awesome -->
 k rel="stylesheet" href="plugins/fontawesome-free/css/all.min.css">
 <!-- Ionicons -->
k rel="stylesheet"
href="https://code.ionicframework.com/ionicons/2.0.1/css/ionicons.min.css">
 <!-- Tempusdominus Bootstrap 4 -->
 4/css/tempusdominus-bootstrap-4.min.css">
 <!-- iCheck -->
 <!-- iCheck -->
<link rel="stylesheet" href="plugins/icheck-bootstrap/icheck-bootstrap.min.css">
 <!-- IQVMap -->
 k rel="stylesheet" href="plugins/jqvmap/jqvmap.min.css">
 <!-- Theme style -->
 k rel="stylesheet" href="dist/css/adminite.min.css">
 <!-- overlavScrollbars -->
 k rel="stylesheet"
href="plugins/overlayScrollbars/css/OverlayScrollbars.min.css">
 <!-- Daterange picker -->
 k rel="stylesheet" href="plugins/daterangepicker/daterangepicker.css">
 <!-- summernote -->
 k rel="stylesheet" href="plugins/summernote/summernote-bs4.min.css">
</head>
<body class="hold-transition sidebar-mini layout-fixed">
<div class="wrapper">
 <!-- Navbar -->
```

```
<?php include "nav.php"; ?>
<!-- /.navbar -->
<!-- Main Sidebar Container -->
<?php include "sidebarmenu.php"; ?>
<!-- Content Wrapper. Contains page content -->
<div class="content-wrapper">
<!-- Content Header (Page header) -->
<div class="content-header">
 <div class="container-fluid">
  <div class="row mb-2">
   <div class="col-sm-6">
    <h1 class="m-0 text-dark">Dashboard</h1>
   </div><!-- /.col -->
   <div class="col-sm-6">
    class="breadcrumb-item"><a href="#">Home</a>
     class="breadcrumb-item active">Dashboard
    </01>
   </div><!-- /.col -->
  </div><!-- /.row -->
 </div><!-- /.container-fluid -->
</div>
<!-- /.content-header -->
<!-- Main content -->
<section class="content">
 <div class="container-fluid">
  <!-- Small boxes (Stat box) -->NIKAL MALAYSIA MELAKA
  <!-- /.row -->
  <!-- Main row -->
   <div class="small-box bg-info">
     <div class="inner">
   <?php
    $usql3= "SELECT * FROM acc where role='2' ";
    $uresult3 = mysqli query($conn, $usql3) or die(mysqli error($conn));
    $totaluser3 = mysqli_num_rows($uresult3);
   ?>
      <h3> <?php echo $totaluser3; ?><h3>
      Total Technician
     </div>
     <div class="icon">
     <i class="ion ion-person"></i>
```

```
</div>
      </div>
    <div class="small-box bg-info">
       <div class="inner">
     <?php
     $usql3= "SELECT * FROM acc where role='3'";
     $uresult3 = mysqli_query($conn, $usql3) or die(mysqli_error($conn));
     $totaluser3 = mysqli_num_rows($uresult3);
     ?>
        <h3> <?php echo $totaluser3; ?><h3>
        Total User/Student
       </div>
       <div class="icon">
        <i class="ion ion-person"></i>
       </div>
      </div>
     </div>
    </div>
    <!-- /.row (main row) -->
   </div><!-- /.container-fluid -->
  </section>
  <!-- /.content -->
 </div>
 <!-- /.content-wrapper -->
<?php include "footer.php";?>
 <!-- Control Sidebar -->
 <aside class="control-sidebar control-sidebar-dark">
 --- Control sidebar content goes here -->MALAYSIA MELAKA
 </aside>
 <!-- /.control-sidebar -->
</div>
<!-- ./wrapper -->
<!-- i0uerv -->
<script src="plugins/jquery/jquery.min.js"></script>
<!-- jQuery UI 1.11.4 -->
<script src="plugins/jquery-ui/jquery-ui.min.js"></script>
<!-- Resolve conflict in jQuery UI tooltip with Bootstrap tooltip -->
<script>
 $.widget.bridge('uibutton', $.ui.button)
</script>
<!-- Bootstrap 4 -->
<script src="plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
<!-- ChartIS -->
```



Appendix B Source Code of index.php for Student

php</td		
include 'process/db.php';		
require('process/usercheck.php');		
?>		
<html lang="en"></html>		
<head></head>		
<meta charset="utf-8"/>		
<meta content="width=device-width, initial-scale=1" name="viewport"/>		
php include "title.php"; ?		
Google Font: Source Sans Pro		
k rel="stylesheet"		
href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,70		
0&display=fallback">		
Font Awesome		
<link href="plugins/fontawesome-free/css/all.min.css" rel="stylesheet"/>		
DataTables		

```
k rel="stylesheet" href="plugins/datatables-
bs4/css/dataTables.bootstrap4.min.css">
 k rel="stylesheet" href="plugins/datatables-">href="plugins/datatables-
responsive/css/responsive.bootstrap4.min.css">
 <!-- Theme style -->
 k rel="stylesheet" href="dist/css/adminite.min.css">
</head>
<body class="hold-transition sidebar-mini">
<div class="wrapper">
 <!-- Navhar -->
 <?php include "nav.php"; ?>
 <!-- /.navbar -->
 <!-- Main Sidebar Container -->
 <?php include "sidebarmenu.php"; ?>
 <!-- Content Wrapper. Contains page content -->
 <div class="content-wrapper">
 <!-- Content Header (Page header) -->
 <section class="content-header">
  <div class="container-fluid">
   <div class="row mb-2">
    <div class="col-sm-6">
     <h1>Report History</h1>
    </div>
    <div class="col-sm-6">
     class="breadcrumb-item"><a href="index.php">Home</a>
      class="breadcrumb-item active">Report History
     </divJINIVERSITI TEKNIKAL MALAYSIA MELAKA
   </div>
  </div><!-- /.container-fluid -->
 </section>
 <!-- Main content -->
 <section class="content">
  <div class="container-fluid">
   <div class="row">
    <div class="col-12">
     <div class="card">
      <!-- /.card-header -->
      <div class="card-body">
       <thead>
        No
     Email
```

```
No Phone
    Date Complaint
    Residential
    Location
    Complaint Category
    Problem Description
    Status
    Progress
    Action
      </thead>
      <?php
         $sql = "SELECT * FROM `complaint` Where id_user='$idu' ";
         $result = $conn->query($sql);
         $count=1;
         while($row = $result->fetch_assoc()) {
         ?>
          <?php echo $count;?>
           <?php_echo $row["email"]:?>
           <?php echo $row["phone_no"];?>
           <?php_echo date ( "d M Y : h:m:s", strtotime (
$row["date_of_complaint"]));?>
           <?php echo $row["kolej kediaman"];?>
           <?php echo $row["Location"];?>
           <?php echo $row["Complain_category"];?>
           <?php_echo
$row["Problem_discription"];?></rr>
           <?php
           if($row["status"]==1)
           echo "Pending";
          }elseif($row["status"]==2)
           echo "Still in progress";
          }elseif($row["status"]==3)
           echo "On-Going";
          }else{
           echo "Work Done";
           }
           ?>
           <?php echo $row["solution"];?>
```


```
<!-- /.content-wrapper -->
<?php include "footer.php"; ?>
 <!-- Control Sidebar -->
 <aside class="control-sidebar control-sidebar-dark">
 <!-- Control sidebar content goes here -->
 </aside>
 <!-- /.control-sidebar -->
</div>
<!-- ./wrapper -->
<!-- jQuery -->
<script src="plugins/jquery/jquery.min.js"></script>
<!-- Bootstrap 4 -->
<script src="plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
<!-- DataTables -->
<script src="plugins/datatables/jquery.dataTables.min.js"></script>
<script src="plugins/datatables-bs4/js/dataTables.bootstrap4.min.js"></script>
<script src="plugins/datatables-
responsive/js/dataTables.responsive.min.js"></script>
<script src="plugins/datatables-
responsive/js/responsive.bootstrap4.min.js"></script>
<!-- AdminLTE App -->
<script src="dist/js/adminite.min.js"></script>
<!-- AdminLTE for demo purposes -->
<script src="dist/js/demo.js"></script>
<!-- Page specific script -->
<script>
 $(function(){
 $("#example1").DataTable({
    "responsive": true, SITLTEKNIKAL MALAYSIA MELAKA
   "autoWidth": false,
 });
  $('#example2').DataTable({
   "paging": true,
   "lengthChange": false,
   "searching": false,
   "ordering": true,
   "info": true,
   "autoWidth": false,
   "responsive": true,
 });
});
</script>
</body>
</html>
```

Appendix C Source Code of index.php for Technician

```
<?php
include 'process/db.php';
require('process/usercheck.php');
?>
<html lang="en">
<head>
 <meta charset="utf-8">
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <?php include "title.php"; ?>
 <!-- Google Font: Source Sans Pro -->
 k rel="stylesheet"
href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,70
0&display=fallback">
 <!-- Font Awesome -->
 k rel="stylesheet" href="plugins/fontawesome-free/css/all.min.css">
<!-- DataTables -->
 k rel="stylesheet" href="plugins/datatables-
bs4/css/dataTables.bootstrap4.min.css">
 k rel="stylesheet" href="plugins/datatables-">href="plugins/datatables-
responsive/css/responsive.bootstrap4.min.css">
 <!-- Theme style -->
 k rel="stylesheet" href="dist/css/adminite.min.css">
</head>
<body class="hold-transition sidebar-mini">
<div class="wrapper">
 <!-- Navbar -->
 <?php include "nav.php"; ?> EKNIKAL MALAYSIA MELAKA
 <!-- /.navbar -->
 <!-- Main Sidebar Container -->
 <?php include "sidebarmenu.php"; ?>
 <!-- Content Wrapper. Contains page content -->
 <div class="content-wrapper">
 <!-- Content Header (Page header) -->
 <section class="content-header">
   <div class="container-fluid">
   <div class="row mb-2">
    <div class="col-sm-6">
     <h1>Task assigned</h1>
    </div>
    <div class="col-sm-6">
     class="breadcrumb-item"><a href="index.php">Home</a>
```

```
class="breadcrumb-item active">Task assigned
    </div>
   </div>
  </div><!-- /.container-fluid -->
 </section>
 <!-- Main content -->
 <section class="content">
  <div class="container-fluid">
   <div class="row">
   <div class="col-12">
    <div class="card">
     <!-- /.card-header -->
     <div class="card-body">
      <thead>
      No
     User
     Email
     Date Complaint
     Phone No
     Residential
     Location
     Complaint Category
     Problem Description
     Action
      </thead>ERSITI TEKNIKAL MALAYSIA MELAKA
      <?php
          $sql = "SELECT * FROM `complaint` where id_technician='$idu' and
status='2'or status='3'";
          $result = $conn->query($sql);
          $count=1:
          while($row = $result->fetch_assoc()) {
           ?>
           <?php echo $count;?>
            <?php $uid= $row["id_user"];
            $qry4="SELECT * FROM acc WHERE id='$uid'";
            $result4=mysqli_query($conn,$qry4);
            $row4=mysqli_fetch_array($result4,MYSQLI_ASSOC);
            {
            echo $row4['username'];
```



```
</div>
    <!-- /.row -->
   </div>
   <!-- /.container-fluid -->
  </section>
  <!-- /.content -->
 </div>
 <!-- /.content-wrapper -->
<?php include "footer.php"; ?>
 <!-- Control Sidebar -->
 <aside class="control-sidebar control-sidebar-dark">
 <!-- Control sidebar content goes here -->
 </aside>
 <!-- /.control-sidebar -->
</div>
<!-- ./wrapper -->
<!-- jQuery -->
<script src="plugins/jquery/jquery.min.js"></script>
<!-- Bootstrap 4 -->
<script src="plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
<!-- DataTables -->
<script src="plugins/datatables/jquery.dataTables.min.js"></script>
<script src="plugins/datatables-bs4/js/dataTables.bootstrap4.min.js"></script>
<script src="plugins/datatables-
responsive/js/dataTables.responsive.min.js"></script>
<script src="plugins/datatables-
responsive/js/responsive.bootstrap4.min.js"></script>
<!-- AdminLTE App -->
<script src="dist/js/adminite.min.js"></script>
<!-- AdminLTE for demo purposes --> AL MALAYSIA MELAKA
<script src="dist/js/demo.js"></script>
<!-- Page specific script -->
<script>
 $(function(){
 $("#example1").DataTable({
   "responsive": true,
   "autoWidth": false,
 });
  $('#example2').DataTable({
   "paging": true,
   "lengthChange": false,
   "searching": false,
   "ordering": true,
   "info": true,
   "autoWidth": false,
   "responsive": true,
 });
```

});



<?php \$servername = "localhost"; \$username = "root"; \$password = ""; \$database = "compsys"; // Create connection \$conn = mysqli_connect(\$servername, \$username, \$password,\$database); // Check connection if (!\$conn) { die("Connection failed: ".mysqli_connect_error()); } //echo "Connected successfully"; ?> Appendix E Source Code of usercheck.php <?php session_start(); include ("db.php"); RSITI TEKNIKAL MALAYSIA MELAKA \$uname=\$_SESSION['username']; \$qry="SELECT * FROM acc WHERE username='\$uname'"; \$result=mysqli_query(\$conn,\$qry); \$row=mysqli_fetch_array(\$result,MYSQLI_ASSOC); \$idu=\$row['id']; \$name=\$row['username']; } if(!isset(\$uname)!= ''){ echo "error ek"; header("location: ../index.php"); } ?>