



KEMENTERIAN PENGAJIAN TINGGI

**DEPARTMENT OF INFORMATION TECHNOLOGY &
COMMUNICATION**

**DIPLOMA IN INFORMATION TECHNOLOGY
(DIGITAL TECHNOLOGY)**

PSP ISLAM I-DONATE SYSYEM

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SESSION : 1 2022/2023

DECLARATION

We hereby declare that the work presented in this project report titled "PSP Islam I-Donate System" submitted to Seberang Perai Polytechnic in partial fulfilment of the requirement for the award of Diploma in Information Technology is an authentic record of our own work carried out during the period from 29th September 2022 to 20th December 2022 under the supervision of Puan Izziani Binti Azizan. We declare that this submission is our own work and that, to the best of our knowledge and belief, it contains no material previously published or written by another person, nor material that has been accepted in substantial part for the award of any other institute's degree or diploma.

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ABSTRACT

PSP Islam I-Donate System goals are to help staff and students of Islamic Centre PSP to have an easier system in managing Islamic Centre PSP and the donations received. A donation system that can saves time, increase efficiency of donating inside this system. Donations through QR Code can lead to error free, reliable, and fast management system. This system can help users in viewing activities via photos that will be organized by the admins. The Agile Model method that used in this system also will make sure the development of system is smooth and according to plan. The expected result of this system is users will find the system to be very user-friendly and easy to use. The system also will run smoothly without any trouble. Basically, the project describes how to give better services for the users.

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1.1 INTRODUCTION

Donations is one of the parts that we can contribute into our community to create the benefits among others. The PSP Islam I-Donate system will be the great project to create because this project will help many students or staff who's want to make the donation through to the PSP Islamic centre. This system will help to solve the problems of PSP Islamic Centres such as errors in calculating monthly contributions from the public by using manual methods. The PSP Islam I-Donate system is supported to create the automatically calculate, this also will help jobs of admin PSP Islamic centre easier.

This system also can use as a note for student who wants to find the information about Islamic noted. Admin of PSP Islamic centre can manage the activities into this system. With this latest information, it makes easier for PSP students who want to participate in any activities that organized by the PSP Islamic centre and subsequently to create a good relationship between the administrators of the PSP Islamic Centre and also the PSP students.

Every organization, whether big or small, has challenges to overcome of managing the information. So, this system will use QR code that will help users to go through to the website of PSP Islam I-donate system. It can save more time to users to go to website because it will not take long time to find the website. These systems will help organization to record all the information of donator and it also can show the target of monthly donations achievement.

1.2 PROBLEM STATEMENT

From interview and observations from the process owner in Seberang Perai Polytechnic, there are a few problems that was found.

2.1.1 Difficulties in donations received and donor details by admin

- ✓ Every month, the amount of donations donated by students and staffs are different. It is important for the donators so they can plan activities if the month in advanced properly using the donations received. Based on the record of donation received monthly, they also need a method that can predict the amount of donation received to avoid any confusion and waste while planning their finance and activities.

2.1.2 Admin must make monthly financial reports about the amount of donations manually

- ✓ Since the admin to make monthly reports manually every month, there might be miscalculation in calculating the donation received. By using this system, the report will be generated automatically, and the risk of miscalculation will be lower.

2.1.3 Staff or Students may miss any activities organized by admin PSP.

- ✓ Staff and students may miss any activities announcement that usually will be posted via social media, brochure or posters pasted on the hallway PSP. By using this system, the user can view the activities via photos that will be held months before the event for anytime and its organized by admin

1.3 OBJECTIVE

To improve our PSP Islam, I-donate system, the objectives of the projects are to:

- To develop a system that makes it easy for admins to view the records of donor details.
- To evolve a system that makes it easy for donors to donate online.
- To displays the latest amount of donations by monthly.

1.4 PROJECT SCOPE

Scopes for the system are:

4.1.1 Admin

a) Able to login into the system

- Owner login into system. The owner must login with his username and password to this system. If they are invalid, the owner is not allowed entering the system.

b) Able to update any activities into the system

- Admin can update any programmes and activities via photos inside the gallery section in the system followed by date and time.

c) Have access and manage monthly donation details and reports

- The owners can make the monthly reports for the one who donates.

4.1.2 Staff / Students

a) Able to donate through the system

- Users have two options to donate inside the system which is by manually or scan QR Code that is provided.

b) Able to view the activities that will be held

- Users can be able to view any activities and programmes that is provided in Islamic centre PSP.

1.5 LITERATURE REVIEW

1.5.1 Introduction

This chapter reviews on existing system, make the comparison and the solution.

1.5.2 Existing system

i) ZAKAT PULAU PINANG

ZAKAT PULAU PINANG is one of the example website donations. This system help user to check zakat payment records, user can also make zakat payments as well as check the status and assistance records of users' zakat assistance application. Features found in Penang Zakat Portal is, Review of Zakat, Calculate Zakat, Pay Zakat on property, Pay Zakat Fitrah, Sakinah Scheme and Kafalah Mahabbah Scheme.



ii) **HUMANITARIAN CARE MALAYSIA BERHAD (MyCARE)**

A Non-Profit Organization (NPO) registered with the Companies Commission of Malaysia (SSM) [no. 729288-P]. In 2017, MyCARE has been granted a Special Consultative Status from United Nations Economic and Social Council (ECOSOC). MyCARE is also a member of South East Asia Humanitarian Communities (SEAHUM).

MyCARE humanitarian relief works cover Southeast Asia Archipelago including Myanmar, The Philippines, Cambodia, Thailand and Vietnam; war-torn countries in the Middle-East such as Palestine, Syria, Lebanon, Iraq and Yemen; as well as disaster-stricken areas in Malaysia, Southeast Asia and other parts of the world. MyCARE actively provides humanitarian relief such as flood disaster relief, temporary shelters, rebuilding homes, food pack and education.

MyCARE transparency and integrity in managing fund has been recognized by Bank Negara Malaysia (BNM), Financial Action Task Force (FATF) and Binder Dijker Otte (BDO). MyCARE will continue to practice the highest standards of corporate governance to ensure the provision of effective and professional humanitarian care services to both our rightful benefactor and deserving beneficiaries.



1.5.3 Comparison Between The Proposed System And Existing System

System Parameter	ZAKAT PULAU PINANG WEBSITE	MYCARE WEBSITE	PSP ISLAM I- DONATE SYSTEM
User friendly	✓	✓	✓
paperless	✓	✓	✓
Instant database record	✓	✓	✓
Notes about Islamic	✗	✗	✓
QR code	✗	✗	✓

1.5.4 Solution Approach

Solution approach part explained about the possible approach that will be applied in this system. This, the technique that we will be used is QR Code.

- i) **QR Code Technology-** QR Code, stands for Quick Response Code, is a two-dimensional code used to record thousands of characters and numbers in a small image created by Denso-Wave Corporation of Japan in 1994. The QR Code is arranged in columns and rows of black and white colours designed to be read by smartphone users. Users utilize the QR Code can simply use the software decode built-in into the applications to convert scanned code images into the coded information and save it into the database. QR Code systems have been used widely in many application areas, such as transport ticketing, entertainment, commercial tracking, or product labelling, etc. In this system, the users will scan the QR Code that will go direct to the website. The system records the activities based on user information extracted from the QR Code. The code that will be used here is to save time for users who wants to make the donation

1.6 METHODOLOGY

The development of this project is carried out based on the formation of phases found in the System Development Life Cycle (SDLC). The development of this PSP Islam I-donate system is based on the Agile model because of the short period of 15 weeks to develop this system.

There are several advantages of using the Agile model in developing systems. Among them are as follows:

- I. This model is very suitable for medium system development
- II. This agile the ability to find problems and create solutions is efficiently and more quickly.
- III. Next, continuous attention to technical excellence and good design.

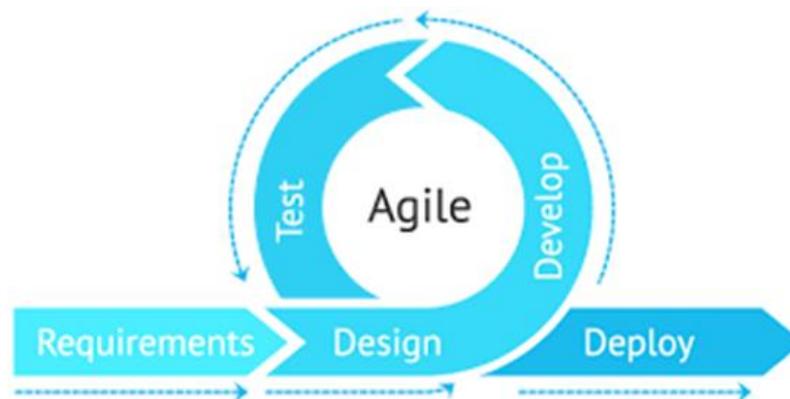


Figure 1.1 shows the agile development model

1. Requirements

In this phase, it begins with brainstorming session with the team member to come up with the idea and the title for the proposed project. The proposed project was listed and finally title have been decided which is the PSP Islam I-donate system. We also perform a process such as data collection, qualitative and quantitative or descriptive data analysis, and identifying everything that is required to proceed to the next stage. Moreover, we also figure out the potential problem for the mosque before proceed to next phase.

2. Design

The design stage is the process of creating a system based on the findings of the analysis. The system design documents are created in accordance with the requirements, which aids in the definition of the overall system architecture for PSP Islam I-donate system.

The design of the web interface is now being processed. By using the ideas that have been collected in the requirements analysis phase. Thus, a client's opinions will also be heard to improve the system interface better.

3. Develop

At this phase, the developing process of the interface. All the function required for the project is also implemented. We will give the fully support at this stage to maintain the system's functionality and address any new defects.

4. Testing

Before the system is made available to users, the testing procedure is helpful for identifying flaws that may exist.

- **Functional Testing**

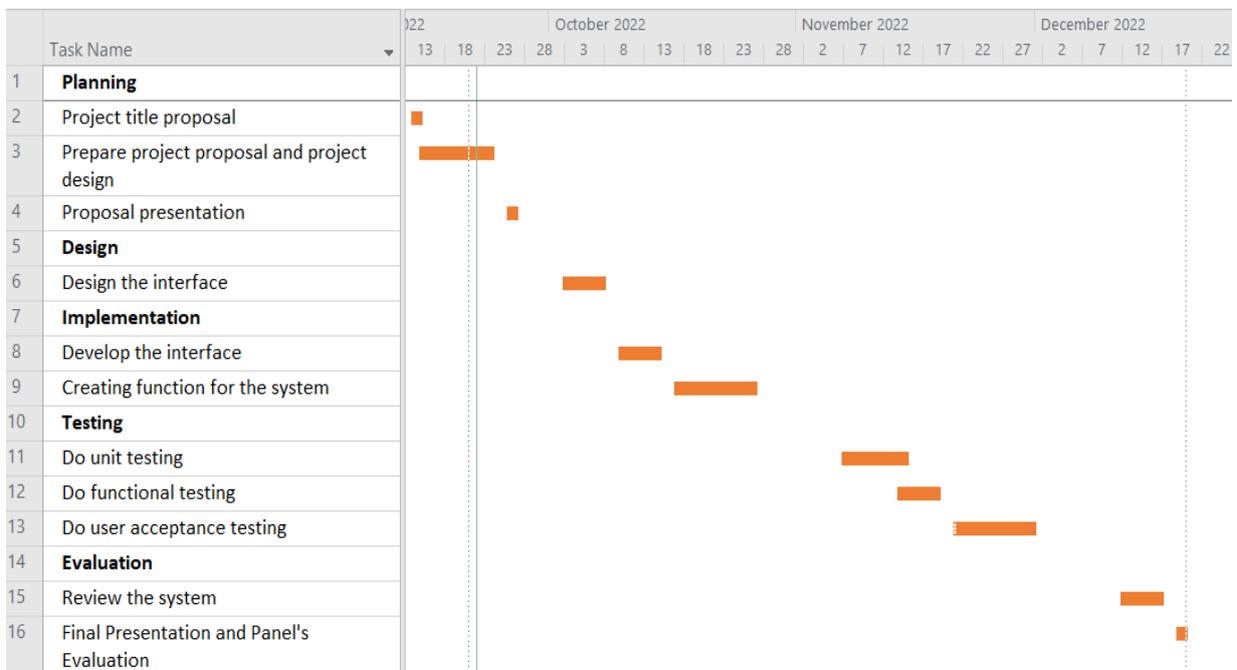
This phase is used to determine whether the system's features function as expected. The main function of this system is to test whether the output is consistent with Seberang Perai Polytechnic Mosque's expectations.

5. Deploy

At this phase, we will explain to the management the result achieved in meeting the requirements. This stage helps maintain functionality and prevent bugs. There will be opportunities to gather input and make modifications that can be included in upcoming revisions of the system as people interact with it.

1.7 GANTT CHART

	Task Name	Duration	Start	Finish
1	Planning			
2	Project title proposal	1 day	Wed 14/9/22	Wed 14/9/22
3	Prepare project proposal and project design	7 days	Thu 15/9/22	Fri 23/9/22
4	Proposal presentation	1 day	Mon 26/9/22	Mon 26/9/22
5	Design			
6	Design the interface	5 days	Mon 3/10/22	Fri 7/10/22
7	Implementation			
8	Develop the interface	5 days	Mon 10/10/22	Fri 14/10/22
9	Creating function for the system	8 days	Mon 17/10/22	Wed 26/10/22
10	Testing			
11	Do unit testing	6 days	Mon 7/11/22	Mon 14/11/22
12	Do functional testing	5 days	Mon 14/11/22	Fri 18/11/22
13	Do user acceptance testing	8 days	Mon 21/11/22	Wed 30/11/22
14	Evaluation			
15	Review the system	5 days	Mon 12/12/22	Fri 16/12/22
16	Final Presentation and Panel's Evaluation	1 day	Mon 19/12/22	Mon 19/12/22



2.0 REQUIREMENT SPECIFICATION

2.1 Functional Requirements

- ✓ Admin must enter username and password to enter into the system
- ✓ After clicking login, it will be redirected to the main page.
- ✓ The password that admin clicked should be hidden from others while typing it in the field.
- ✓ Admin can insert activities that will be held anytime via photos that user can view and take notice.
- ✓ User can make donations manually or scan qr code that provided in the system

2.2 Non-functional Requirements

Non-Functional Requirements	Explanation
Security	Sufficient security has been applied to the system. The system should not indicate any information leaking risk. In this system the admin password is encrypted.
Usability	The system's user interface is user-friendly and simple to use by the staff or students.
Performance	For a user to perform an action, the system load time should not take longer than one or two seconds. It needs to react to the action immediately. For example, it should not take more than five seconds for a QR Code donation scanner to donate.

2.3 Hardware and software requirements

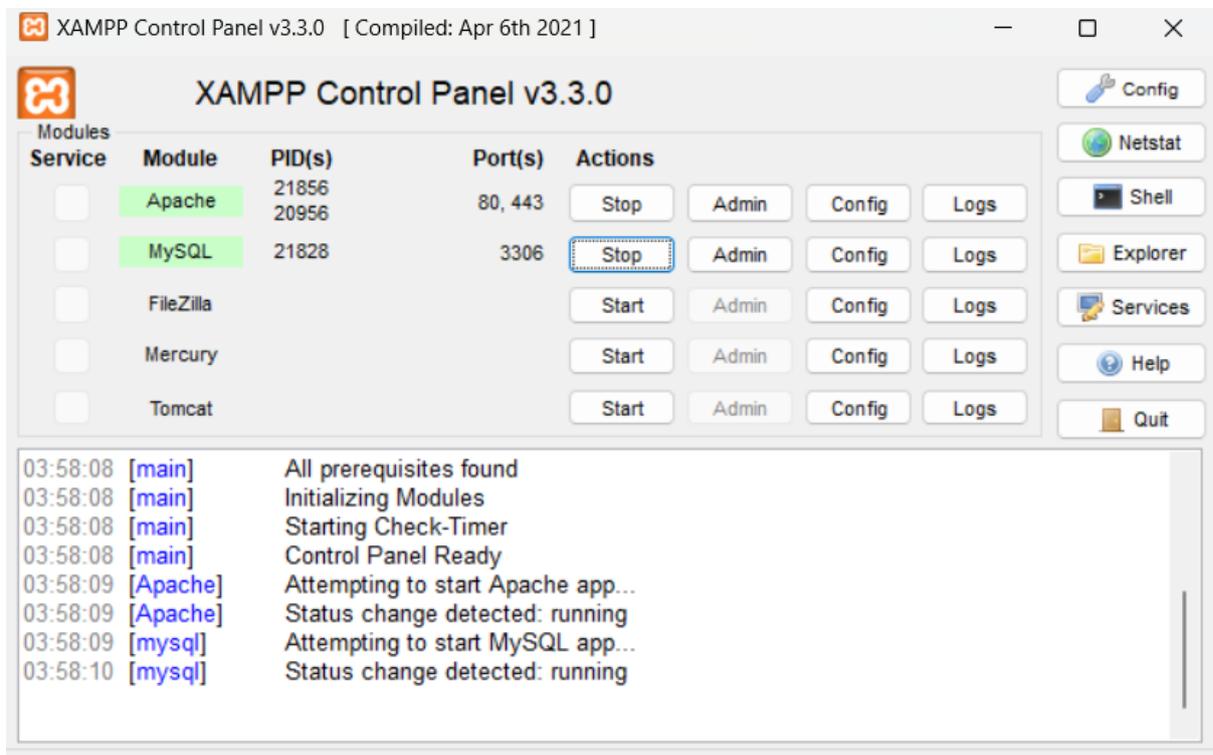
This is the list of software and hardware that have been used when developing this system

Hardware	Software
Laptop	Visual Studio Code
	Notepad++
	XAMPP Control Panel v3.3.0
	PhpMyAdmin
	Google Chrome & Brave

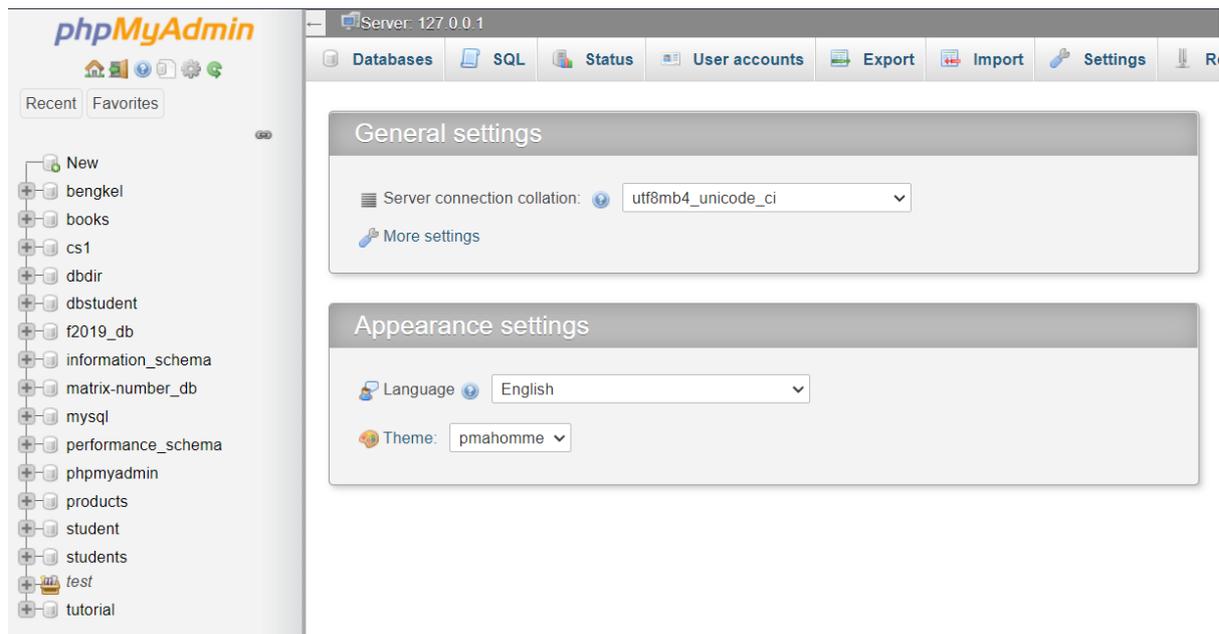
2.4 System Configuration

2.4.1 Database and Main Components

- ✓ Firstly, run Apache and MySQL after opening XAMPP Control Panel. Wait for them to turn green and then click on Admin that's to be directed to the phpMyAdmin page.



- ✓ Click 'New' to create the database for this system



- ✓ After that, create table and add the column followed by the system.
- ✓ Next, link the database to the system
- ✓ Finally, admin can login their system in secure.

2.5 Security Requirements

1) Login Page

- ✓ Only admin can login to the system with username and password.

2) Encryption

- ✓ Passwords stored in the database where all encrypted because of security issues

3) Client Side and Server-Side Validation

- ✓ Before submitting data to the server, it is important to ensure all required controls are filled out in the correct format. In Server-Side Validation, the admin input is sent to the server and validated using one of the server-side scripting languages such as PHP.

4) Exception Handling – Error Message

- ✓ Error message when admin input invalid password or empty inputs.

3.0 FINAL DESIGN

3.1 Control flow diagram

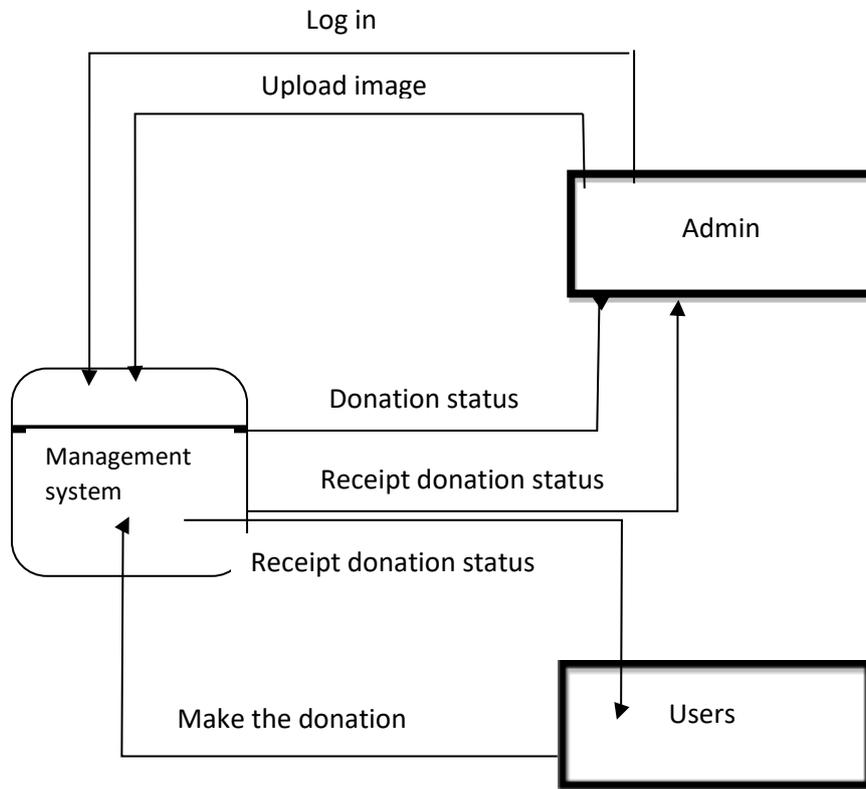


Figure 3.1 control flow diagram (CFD)

Figure 3.1 show the control flow of PSP ISLAM I-CENTRE SYSTEM. In this system have two users participate which is admin and user. There are eight data streams involved in the interaction between processes and entities. For admin, there are two output data (Login and upload image) There are also two data inputs (donation status and receipt donation status). For users, there are one data out (make donation). There also one data input (receipt donation status).

3.1.1 Conclusion

Conclusion of this topic is this method is used to develop the proposed system. The control flow diagram that has been make is to show how our website system working. The perfection of the control flow diagram preferably can help project development going smoothly.

4.0 TEST DESCRIPTION AND RESULTS

4.0.1 Introduction

This is the design of the proposed system, in which we plan how the system interface will look. This page may not be the final design of our website but can helps user to understand how our system working.

4.1 Interface of PSP ISLAM I-DONATE SYSYEM

This page will show about the main page of PSP ISLAM I-DONATE SYSTEM





SUMBANGAN

Sumbangan ini akan digunakan bagi aktiviti umum, selenggaraan dan pengurusan masjid

"Sebaik-baik manusia adalah yang paling banyak memberi manfaat kepada manusia lain"
(HR. Imam Thabrani)

Dengan ini Hamba mendermakan wang sumbangan ini bagi kegunaan masjid kerana ALLAH SWT

Derma atas talian

Derma melalui QR code

Galeri



Kuliah magrib yang diadakan pada 18 Oktober 2022 di pusat islam



Program Karnival Malidur Rasul yang diadakan pada 19 Oktober - 18 November 2022



Kuliah magrib yang diadakan pada 31 Oktober 2022 di pusat islam

Exco Pusat Islam Politeknik Seberang Perai



SR. HARITH FADHILAH BIN
ABD KHALID
PENGARAH PSP



ENCIK MAZLAN BIN CHE
MUSTAFA
TIMBALAN PENGARAH



USTAZ HJ ABD RAHMAN
BIN MAMAT
PENGERUSI



HUBUNGI KAMI



Pusat Islam Politeknik Seberang Perai



Politeknik Seberang Perai, Jalan Permatang Pauh, 13500 Permatang Pauh, Pulau Pinang



pislam.psp@gmail.com



Figure 4.1 interface of PSP ISLAM I-DONATE SYSTEM

- ✓ When user visit this page user can scroll down to see the little of information about PSP Pusat Islam and user also can make donation through online at this page.

4.1.1 Program page

LOG MASUK
UTAMA
PROGRAM
CARTA ORGANISASI
NOTA
GALERI
HUBUNGI



SUN	MON	TUE	WED	THU	FRI	SAT
30 Kilab Sekolah Ustaz Rahman	31 Kilab Masjid Ustaz Rahman					1 Kilab Sekolah Ustaz Rahman
2 Kilab Sekolah Ustaz Rahman	3 Kilab Masjid Ustaz Rahman	4 Kilab Masjid Ustaz Fahmi	5 Kilab Masjid Ustaz Najwa	6 Kilab Masjid Ustaz Ali	7 Kilab Sekolah Ustaz Rahman	8 Kilab Sekolah Ustaz Rahman
9 Kilab Sekolah Ustaz Rahman	10 Kilab Masjid Ustaz Rahman	11 Kilab Masjid Ustaz Suhaimi	12 Kilab Masjid Ustaz Fahmi	13 Kilab Masjid Ustaz Ali	14 Kilab Sekolah Ustaz Rahman	15 Kilab Sekolah Ustaz Rahman
16 Kilab Sekolah Ustaz Rahman	17 Kilab Masjid Ustaz Rahman	18 Kilab Masjid Ustaz Fahmi	19 Kilab Masjid Ustaz Ali	20 Kilab Masjid Ustaz Suhaimi	21 Kilab Sekolah Ustaz Rahman	22 Kilab Sekolah Ustaz Rahman
23 Kilab Sekolah Ustaz Rahman	24 Kilab Masjid Ustaz Rahman	25 Kilab Masjid Ustaz Suhaimi	26 Kilab Masjid Ustaz Najwa	27 Kilab Masjid Ustaz Ali	28 Kilab Sekolah Ustaz Rahman	29 Kilab Sekolah Ustaz Rahman

Majlis Ilmu November 2022

SUN	MON	TUE	WED	THU	FRI	SAT
		1 KULIAH MADHUB USTAZ ALI	2 KULIAH MADHUB USTAZ RAHMAN	3 KULIAH MADHUB USTAZ ALI	4 KULIAH SUBUH USTAZ RAHMAN	5 KULIAH SUBUH USTAZ RAHMAN
6 KULIAH SUBUH USTAZ RAHMAN	7 KULIAH MADHUB USTAZ RAHMAN	8 KULIAH MADHUB USTAZ RAHMAN	9 KULIAH MADHUB USTAZ RAHMAN	10 KULIAH MADHUB USTAZ ALI	11 KULIAH SUBUH USTAZ RAHMAN	12 KULIAH SUBUH USTAZ RAHMAN
13 KULIAH SUBUH USTAZ RAHMAN	14 KULIAH MADHUB USTAZ RAHMAN	15 KULIAH MADHUB USTAZ RAHMAN	16 KULIAH MADHUB USTAZ RAHMAN	17	18	19
20 KULIAH SUBUH USTAZ RAHMAN	21	22 KULIAH MADHUB USTAZ RAHMAN	23 KULIAH MADHUB USTAZ RAHMAN	24 KULIAH MADHUB USTAZ ALI	25 KULIAH SUBUH USTAZ RAHMAN	26 KULIAH SUBUH USTAZ RAHMAN
27 KULIAH SUBUH USTAZ RAHMAN	28 KULIAH MADHUB USTAZ RAHMAN	29 KULIAH MADHUB USTAZ RAHMAN	30 KULIAH MADHUB USTAZ ALI			

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Figure 4.1.1 Program Page

✓ This page will show what the program will do in PSP Pusat Islam in monthly.

4.1.2 Organization chart page

LOG MASUK
UTAMA
PROGRAM
CARTA ORGANISASI
NOTA
GALERI
HUBUNGI

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SR. HARITH FADHILAH BIN ABD KHALID
 PENGARAH PSP

ENCIK MAZLAN BIN CHE MUSTAFA
 TIMBALAN PENGARAH

USTAZ HJ ABD RAHMAN BIN MAMAT
 PENERUSI

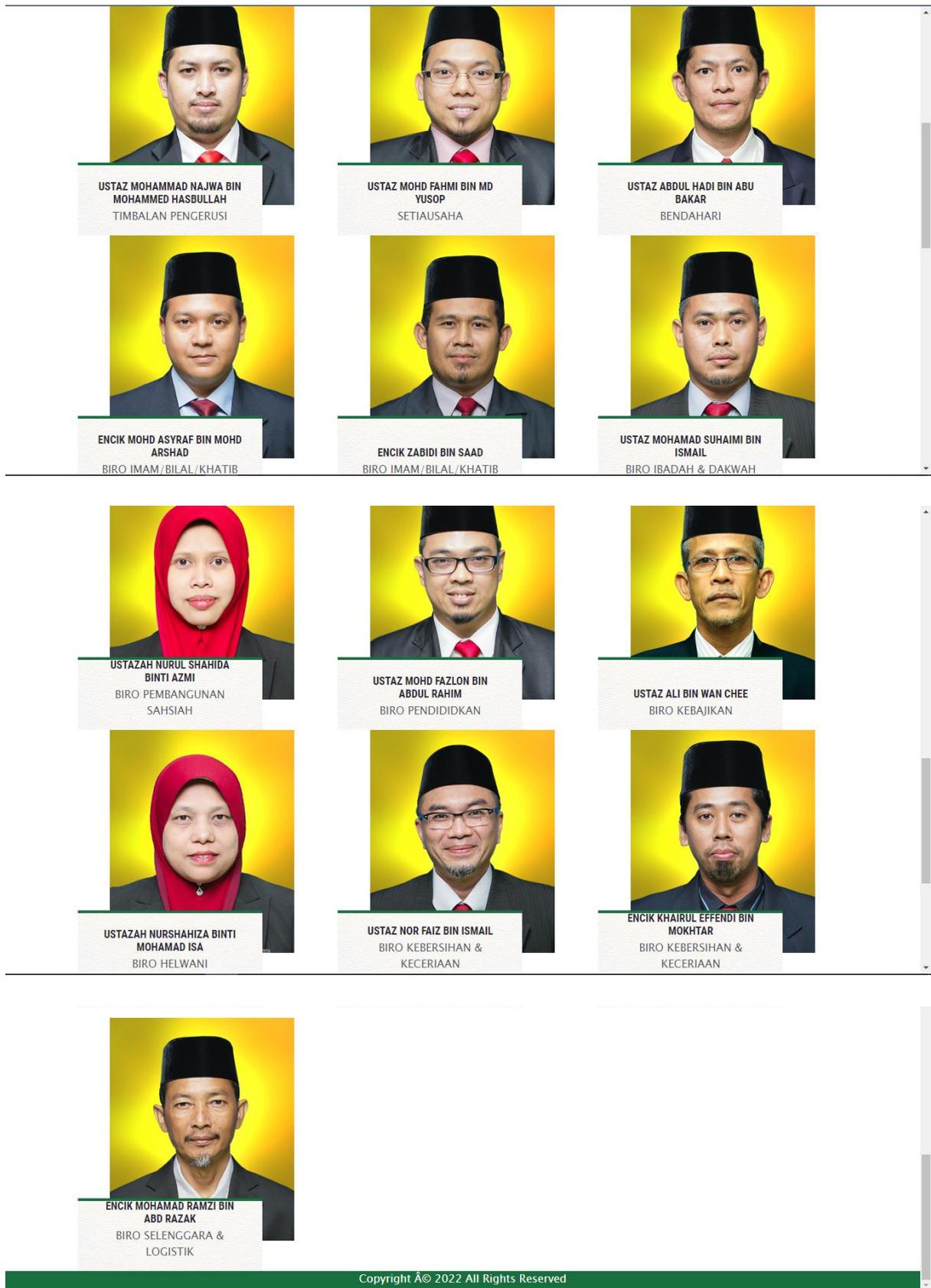


Figure 4.1.2 Organization Chart Page

- ✓ This page will show committee member of PSP Pusat Islam. This will help user know who's in charge of PSP Pusat Islam.

4.1.3 Note page



Figure 4.1.3 Note page

- ✓ When user click on “Tekan Sini” button this page will go direct to YouTube and show the information in video format. User can spend their free time to watch and learn more about Islam religion.

4.1.4 Gallery page

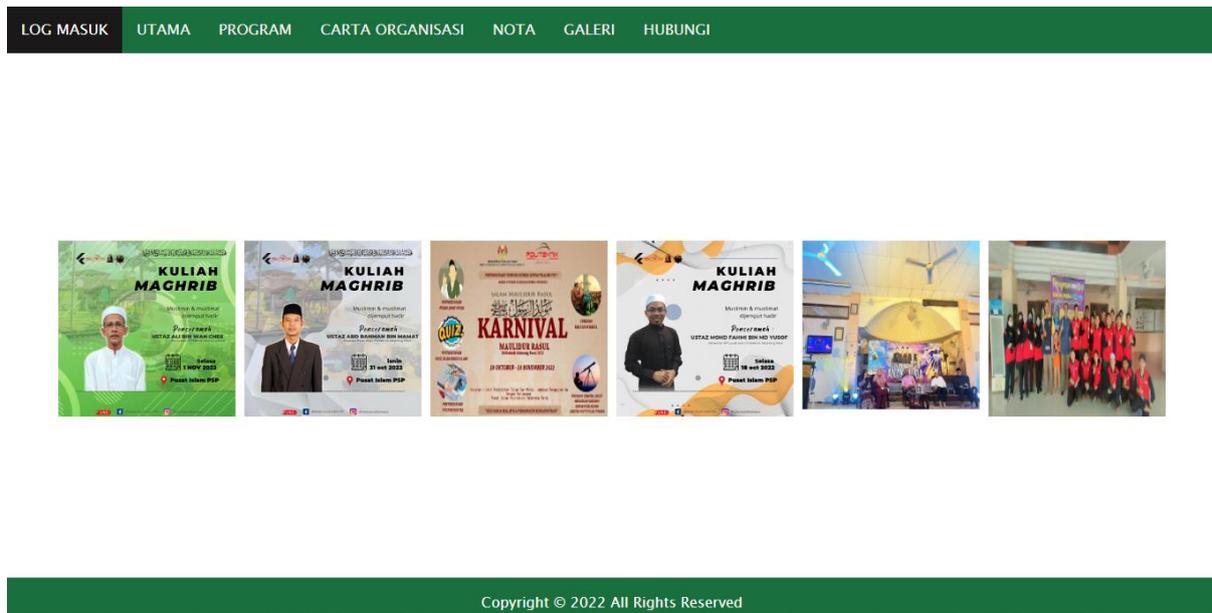


Figure 4.1.4 Gallery page

- ✓ Show the event that have been make at PSP Pusat Islam. This page will show how interesting activity and can make more user to participate in next event at PSP Pusat Islam.

4.1.5 About us page



Figure 4.1.5 About us page

- ✓ This interface shows the location of PSP Pusat Islam. This page will help user to show the direction and user also can interact with owner of PSP Pusat Islam through email or call.

4.1.6 Log in page

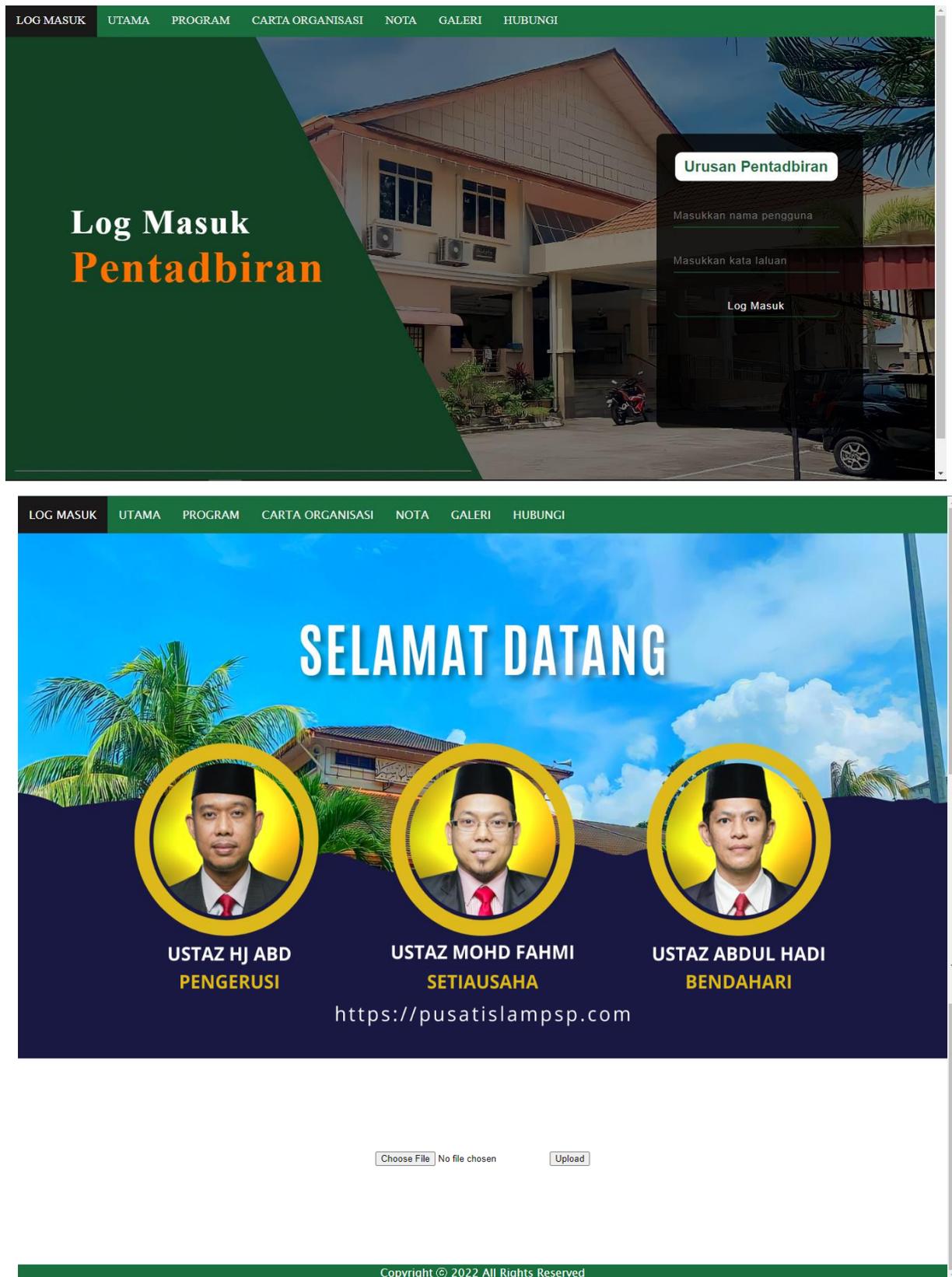


Figure 4.1.6 Login page

- ✓ This page is create only for admin of PSP Pusat Islam to upload image on website

4.2 Conclusion

In conclusion, the implementation of this PSP ISLAM I-DONATE SYSTEM has achieved its main objectives as a web-based system in automating the entire workflow. It has reached a stable state in which all bugs have been removed. The system operates at a high level of efficiency. It has helped in monitoring and managing the monthly donation. The system not only allows admin to managing monthly donation, but also makes it simple for them to manage idea for PSP pusat islam. Furthermore, this project has provided an excellent opportunity to learn and practice programming skills, particularly web-based programming languages such as PHP and HTML. Finally, this system is said to be successful because all the organization's requirements have been met.

5.0 MAJOR FINDING AND DISCUSSIONS

5.0.1 Advantage of this project

- **Donations manually**
 - ✓ Users have two button options to donate inside the system which is by manually and scan QR Code.
 - ✓ If users choose to click to donate manually button inside the system, then users must enter their full name, mobile number, email and amount they want to donate.



PUSAT ISLAM POLITEKNIK SEBERANG PERAI
Politeknik Seberang Perai, Jalan Permatang Pauh, 13500 Permatang Pauh, Pulau Pinang.
013 457 6085 pislam.psp@gmail.com

Full Name	<input type="text" value="Rhubnessvaran Kelundapyan"/>
Mobile Number	<input type="text" value="0149604136"/>
E-mail	<input type="text" value="blackgunners02@gmail.com"/>
Amount (Min. RM 3.00)	<input type="text" value="RM 3.00"/>
<input type="button" value="Create Bill"/>	

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- ✓ After users enter their details, they should click create bill to proceed to online banking payment details.



PUSAT ISLAM POLITEKNIK SEBERANG PERAI
Politeknik Seberang Perai, Jalan Permatang Pauh, 13500 Permatang Pauh, Pulau Pinang.
013 457 6085 pislam.psp@gmail.com

➔ Online Banking Payment

Bill ID	QZ39CB55DD
Collection	SUMBANGAN UMUM
Email	blackgunners02@gmail.com
Full Name	Rhubnessvaran Kelundapyan
Mobile Number	0149604136
Amount	RM 3.00

Please select consumer bank..

Proceed to Payment →

You are about to be redirected to your preferred bank. By clicking Proceed to Payment, you agree with [FPX's Terms & Conditions](#).



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Waiting for infaap...

- ✓ It displays all our information that we click on input section, and it asks to choose bank option to proceed to payment.
- ✓ Next, it's now being redirected to the online banking page and then you must make payment inside your bank.
- ✓ Finally, the process of payment that users made will be displayed completely in a page and users can download it in pdf file.



PUSAT ISLAM POLITEKNIK SEBERANG PERAI

Politeknik Seberang Perai, Jalan Permatang Pauh, 13500 Permatang Pauh, Pulau Pinang.
013 457 6085 pislam.psp@gmail.com

✔ Payment Completed

Bill ID

QZ37A2B7C4

Collection

SUMBANGAN UMUM

Email

blackgunners02@gmail.com

Full Name

Rhubnessvaran Kelundapyan

Mobile Number

0149604136

Amount

RM 3.00

Buyer Bank Name

Bank Islam

FPX Transaction ID

2211202128410206

Transaction Date and Time

20 Nov 2022 21:28:41

Status Description

Approved

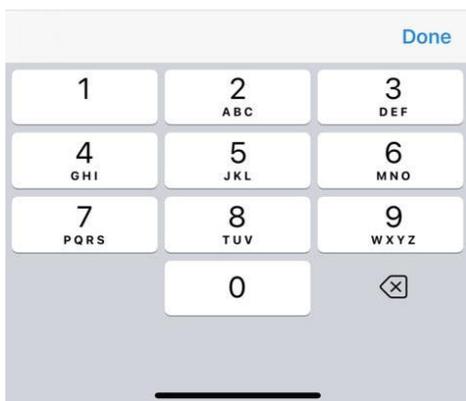
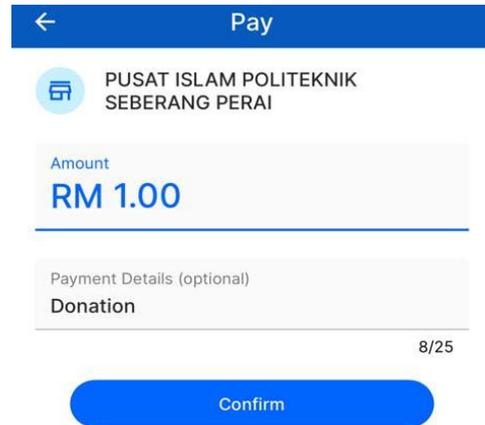
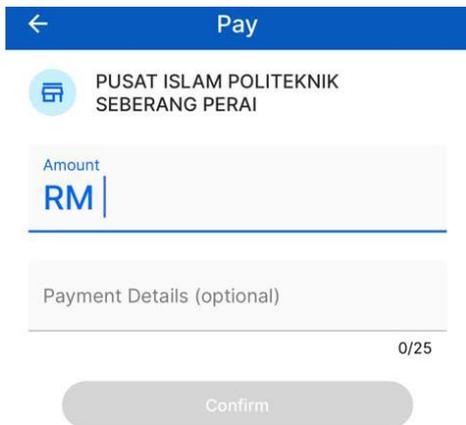
Print This Page

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- **Donations using QR Code**

- ✓ Next option if users donate using QR Code in TnG E-Wallet, then they have to enter the amount of donation and also the payment details and it will proceed to next step after click confirm button.



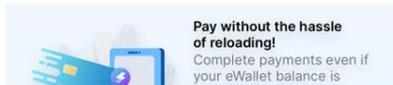
- ✓ If users have money on their wallet, it will be deduct automatically on that money, if users does not have it will be redirected to the online banking page.



RM 1.00

Paid

Merchant	PUSAT ISLAM POLITEKNIK SEBERANG PERAI
Payment Details	Donation
Transaction Type	 DuitNow QR
DuitNow Ref No.	20221123TNGDMYNB030OQR7 6245150
Date/Time	23/11/2022 09:19:38
eWallet Ref No.	2022112310110000010000TNGO W3MY171036240751904
Payment Method	eWallet Balance



Done

- ✓ Finally, admin can view user details in a short period of searching time as it is listed.
- ✓ Besides that, by using this donation methods it will reduces as much as possible to avoid errors while entering the data.

5.0.2 Limitation of the project

- ✓ The users must have an internet connection to make donations via online banking in both donation option is the only restriction of this project
- ✓ The admin unable proceed to main page without accessing login page.

6.0 CONCLUSION

Finally, conclusion of this PSP Islam I-donate system is based on owners need. An online Islamic centre PSP is developed to avoid the human error while calculate the monthly donation.

Therefore, by using this system, student can directly make the donation to Seberang Perai Polytechnic Mosque's and all the information that they have make the donation will appear on receipt. In the last word, this system will give more benefits to the people in Seberang Perai Polytechnic and can able develop healthy relationship between Seberang Perai Polytechnic Mosque's and PSP students.

Furthermore, this project has provided an excellent opportunity to learn and practice programming skills, particularly web-based programming languages such as PHP. Finally, this system is said to be successful because all the organizations requirements have been met. Hopefully this system can help to overcome the problem in order to make a new donation system.

7.0 RECOMMENDATIONS REFERENCES

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