

FACULTY OF COMPUTING SESSION 2018/2019 SEMESTER 1

Code & Subject : SCSV 2113 – Human Computer Interaction

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PROJECT PROPOSAL

Masjid Management System

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I.	INTRODUCTION	2
II.	PROBLEMS	2
III.	PROPOSED SOLUTION	3
IV.	TARGET USERS	4
V.	WEBSITE	4

1. Introduction

Our proposed project name is "Masjid Management System". In this project we try to focus on the problems of UTM central masjid. And try to give specific solution of its. By our proposed Masjid Management System the authorities can able to solve their regular problems.

2. Problems

In our UTM central Masjid (Sultan Ismail Mosque) there are lots of problems that have to be solved. In this section we try to focus the major problem of these. There are:

^{*} Lacking's of Donation Systems

^{*} Lacking's of Water Management Systems

- * Lacking's of Security Management System
- * Lacking's of Islamic programs broadcasting system (schedule/News)
- * Lacking's of Islamic Cultures practice

3. Proposed Solution

We can solve these problems in many ways. But in this section we try to solve these problem by technically. In our Proposed Masjid Management System we can able to solve these problems by a software. Now we are trying to describe about this:



- * **Donation Systems:** In our Masjid Management System we have a section for this donation system. One can able to give donation for masjid and also able to see where the donation money are being used.
- * Water Management Systems: In our Masjid Management System we have a section for this water management system. The masjid

authorities can be able to control the all tube-wells by this systems. In our systems we connected all the water tap with IoT devices and sensors, which can help to save the water.

- * **Security Management System:** In our Masjid Management System we have a section for this security system. The masjid authorities can be able to control the all places of the masjid by this systems. In our systems we connected all the places by Closed-circuit television camera (CCTV), which can help the security to the authorities.
- * Islamic programs broadcasting system: In our Masjid Management System we have a section for this Islamic programs broadcasting system. The masjid authorities can be able share their daily activates by this systems. For this reason, people can easily see the schedule of Islamic programs and can be able to participate.

4. Target Users

In a masjid there are various kinds of Muslim ummah come here to attend the prayer. In this circumstance we divided three targeted users group for our masjid management systems. Those are below:

- * Masjid Authorities / Local People: Masjid authorities can be able to management the masjid by our systems very easily from anywhere. They can also be able to see/ predicts the yearly budgets by this systems.
- * **Students:** Students can be able to learn how to management a masjid by this Masjid Management Systems.
- *Travelers / Musafir: By this systems one can easily finds the location and see the facilities of any masjid.

5. Website

www.utm.cyberwort.com

Masjid Management System

Our proposed management system will included these three main tasks:

Task 1:

Islamic programs broadcasting system: In our Masjid Management System we have a section for this Islamic programs broadcasting system. The masjid authorities can be able share their daily activates by this systems. For this reason, people can easily see the schedule of Islamic programs and can be able to participate.

Task 2:

Security Management System: In our Masjid Management System we have a section for this security system. The masjid authorities can be able to control the all places of the masjid by this systems. In our systems we connected all the places by Closed-circuit television camera (CCTV), which can help the security to the authorities.

Task 3:

Water Management Systems: In our Masjid Management System we have a section for this water management system. The masjid authorities can be able to control the all tube-wells by this systems. In our systems we connected all the water tap with IoT devices and sensors, which can help to save the water

In our proposed management system we have three Persona. There are: Masjid Authorities / Local People, Students and Travelers / Musafir.

Masjid Authorities / Local People:

USTAZ MOHD. FIRDAUS BIN PAZIM is the imam of our utm central masjid. During last few years he continue his duty as an imam in our masjid. In that time he faces lots of problems to full fill his duties. Sometimes people claim that, they are not



well informed about the program. That time he feel very much sad, because some people cannot able to attend his beautiful Islamic programs. For that reason, he wants to find a way to share masjid's programs to the ummah.

Students:

Abdullah Ibna Kamal is a first year student of UTM and he lives in Kolej Dato Onn Jaafar (KDOJ). He is the student of software engineering. Because of long distance from KDOJ he is not always able to attend the daily prayers of this central masjid. For that, he just try to attend in jummah prayer. He heard from his local friends that, the authorities of the masjid sometime arrange some Islamic culture and studies program. Though he has a great interest to attend that kinds of program, due to the lack of proper news he cannot able to attend that programs.



Travelers / Musafir:

A person who go to the new places for the vision of Islamic exploration is known as Islamic traveler or musafir. In the modern ages we saw that, some Islamic traveler go to overseas for Islamic visions. In that time it is very hard decision to choice appropriate place for their missions. In this circumstance, if they have to sources of the masjid facilities details then it might be very easy for them to choice right place.



According to our 3 PERSONA, we will have three scenarios:

- 1- USTAZ MOHD. FIRDAUS BIN PAZIM is the imam of our us central masjid. In that time he faces lots of problems to full fill his duties. Sometimes people claim that, they are not well informed about the program. That time he feel very much sad, because some people cannot able to attend his beautiful Islamic programs. For that reason, he wants to find a way to share masjid's programs to the ummah.
- 2- Abdullah lives in Kolej Dato Onn Jaafar (KDOJ). Because of long distance from KDOJ he is not always able to attend the daily prayers of this central masjid. For that, he just try to attend in jummah prayer. One day he was came back from the central library. After he went to masjid for attending prayer. When he entered the masjid he noticed that there is an Islamic program going on. After finished his prayer he heard from his local friends that, the authorities of the masjid arrange Islamic culture and studies program that day. Though he has a great interest to

- attend that kinds of program, due to the lack of proper news he could not able to attend that programs in that day.
- 3- One day some Islamic traveler came to UTM for just visiting purpose. After attend prayer in Sultan Ismail masque they were surprised by the beauty of this masjid. If they know before came that place, they might be able to continue their programs in this UTM masjid. Just for the lack of information they were not able to do that.

HTA – TEXTUAL REPRESENTATION FOR USERS:

Task-01 (Student):

- 0. Register as member
- 1. Open The Masjid Management System
- 2. Go to member Section
- 3. Fill-up Registration Form
- 4. Submit Form
- 5. Make Payment
- 6. Print Member Registration Form



Task-01 (Authority):

- 0. Create Account as Admin
- 1. Open The Masjid Management System
- 2. Go to Administration Section
- 3. Fill-up Form
- 4. Submit Form
- 5. Print Username and Password



Task-01 (Traveler):

- 0. Register as Traveler
- 1. Open The Masjid Management System
- 2. Go to Traveler Section
- 3. Fill-up Registration Form
- 4. Submit Form
- 5. Make Payment
- 6. Print Form



Task-02 (Student):

- 0. Make Donation
- Open The Masjid Management System
 Go to Donation Section
- 3. Fill-up Form
- 4. Submit Form
- 5. Make Payment
- 6. Print Invoice



Task-02 (Authority):

- 0. Publishing Program Schedule
- 1. Open The Masjid Management System
- 2. Go to Program Schedule Section
- 3. Create Program
- 4. Submit Program Details
- 5. Publish Programs
- 6. Share Programs



Task-02 (Traveler):

- 0. View Masjid Facilities
- View Masjid Facilities
 Open The Masjid Management System
 Login to the System
 Search by the Area
 View Masjid Facilities



Task-03 (Students):

- Monitoring the Management System
 Open The Masjid Management System Dashboard
 View the monitoring Tools
 Analysis the System



Task-03 (Authority):

- Monitoring the Management System
 Open The Masjid Management System Dashboard
 View the monitoring Tools
 Analysis the System



Task-03 (Traveler):

- 0. Search Masjid Location
- Open The Masjid Management System
 Login to the System
 Search by the Area
 View Masjid



All Videos Link:

 $\underline{https://www.youtube.com/user/MrShoharto/playlists}$

Masjid Management System

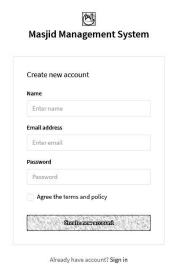
Overall Design

Main page where users can management their 'Masjid Management System'.



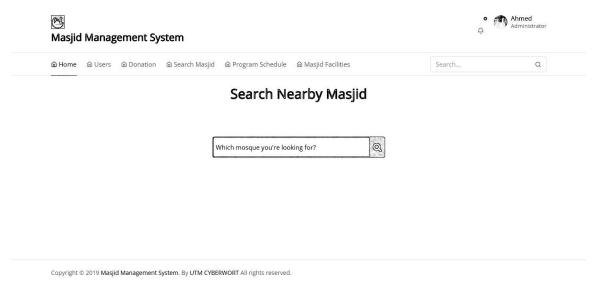
Alternative Design #1

Page where user can create new account in our 'Masjid Management System'.



Alternative Design #2

Page where users can search nearby masjid in 'Masjid Management System'.



Justification on overall design

- For our overall design, we decided to go with with this design as it appears the cleanest and most intuitive to use.
- This design is very much user friendly.

Metaphors and Story board

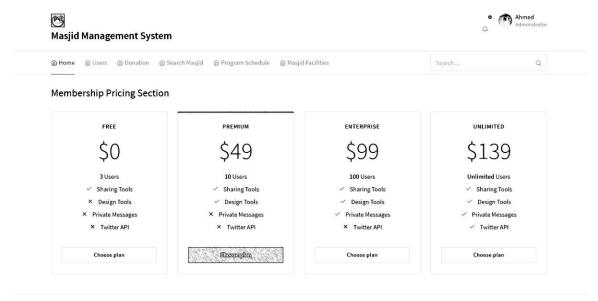
Task-01:

- 0. Register as member
- 1. Open the Masjid Management System
- 2. Go to registration Section
- 3. Fill-up Registration Form
- 4. Submit Form
- 5. Make Payment
- 6. Print Member Registration Form



Task-02:

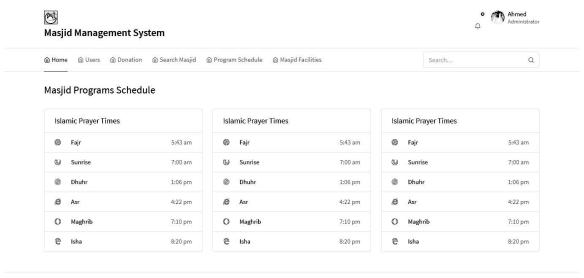
- 0. Make Donation
- 1. Open the Masjid Management System
- 2. Go to Donation Section
- 3. Fill-up Form
- 4. Submit Form
- 5. Make Payment
- 6. Print Invoice



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Task-03:

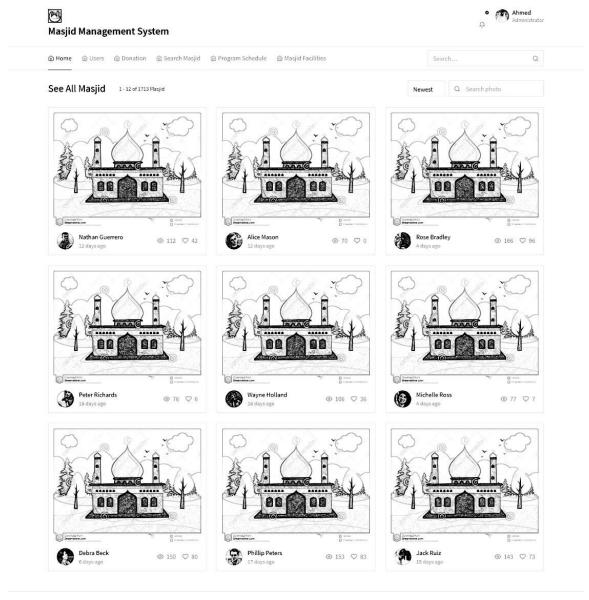
- 0. Publishing Program Schedule
- 1. Open the Masjid Management System
- 2. Go to Program Schedule Section
- 3. Create Program
- 4. Submit Program Details
- 5. Publish Programs
- 6. Share Programs



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Task-04:

- 0. View Masjid Facilities
- 1. Open the Masjid Management System
- 2. Login to the System
- 3. Search by the Area
- 4. View Masjid Facilities

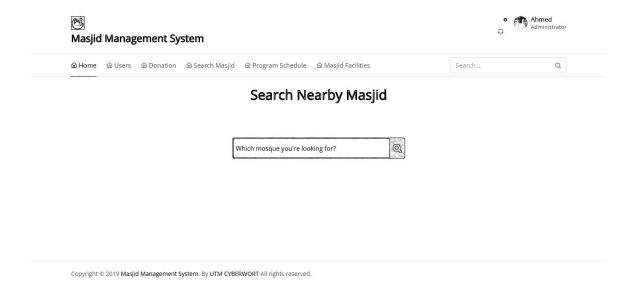


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Task-05:

- 0. Search Masjid Location
- 1. Open the Masjid Management System

- 2. Login to the System
- 3. Search by the Area
- 4. View Masjid

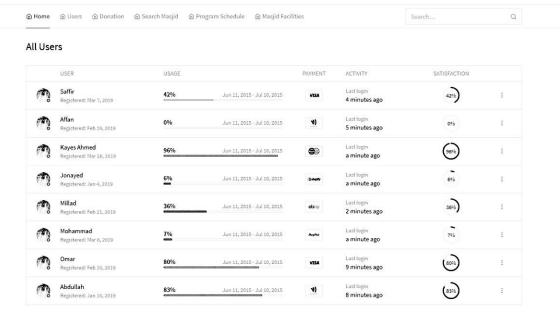


Task-06:

- 0. View All Users
- 1. Open the Masjid Management System
- 2. Login to the System
- 3. Go to All User section
- 4. View Users







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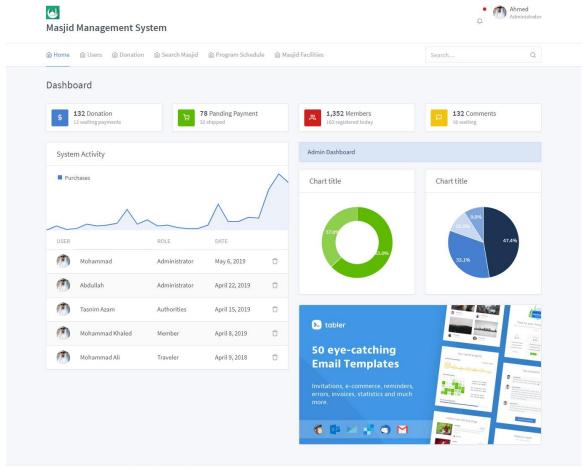
Masjid Management System

Introduction:

Our proposed project name is "Masjid Management System". In this project we try to focus on the problems of UTM central masjid as an example. And try to give specific solution of its. By our proposed Masjid Management System the authorities can able to solve their regular problems. Besides general users also be benefited by our system. By our system users can easily find the nearest mosque including all details. They also can make donation in online through our system. The authority can publish their recent program schedule at this system and they also be able to manage the users by this system. In this system users have an account, by login this account they can attached with our system. We believe that, our proposed "Masjid Management System" will make a great revelation in the society.

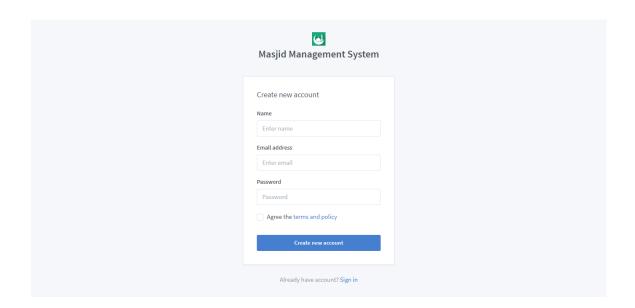
Prototype:

Our Masjid Management System dashboard.

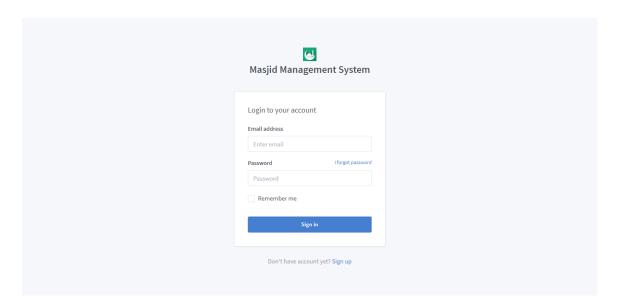


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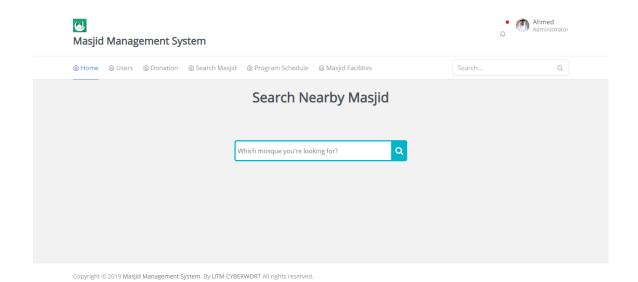
User registration panel:



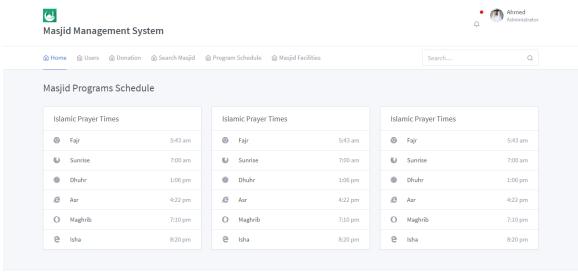
User Login Panel:



Users can search location in our system.



The authority can publish program schedule in our system.



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Briefing about Project:

As I was saying before, Masjid management system is a website that allows users and the authorities have some specific duties. In these duties the users can able to find the nearest mosque and its facilities. Users also be able to make donations. Besides, the authority can able to management their mosque by our system very easily.

Now we will be giving to users some specific task that every users must have to do in our system. We may ask the users to do thinks like search for nearest mosque or make donation by our system. All we ask of them is to let us know when they are confused or think something isn't clear.

We can give an example as a sample for the users. Like: users may asked by us that, if they faces any problems regarding our system then they are able to give us feedback and our team will give them replay as soon as possible.

Our proposed management system will included these three main tasks:

Task 1:

Islamic programs broadcasting system: In our Masjid Management System we have a section for this Islamic programs broadcasting system. The masjid authorities can be able share their daily activates by this systems. For this reason, people can easily see the schedule of Islamic programs and Can be able to participate.

Task 2:

Mosque Search by location: In our Masjid Management System we Have a section for search system. The users can be able to search and view mosque details by searching in our system search panel.

Task 3:

Donation System: In our Masjid Management System we have a section for this donation. The masjid authority can collect their donation by this

website. Besides, the users can easily make donation and print the invoice from the system.

Testing with users by the main tasks:

In our proposed management system we have three Persona. There are: Masjid Authorities / Local People, Students and Travelers / Musafir.

Masjid Authorities / Local People:

USTAZ MOHD. FIRDAUS BIN PAZIM is the imam of our us central masjid. During last few years he continue his duty as an imam in our masjid. In that time he faces lots of problems to full fill his duties. Sometimes people claim that, they are not well informed about the program. That time he feel very much sad, because some people cannot able to attend his beautiful Islamic programs. For that reason, he wants to find



A way to share masjid's programs to the ummah.

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Observations:

User-1:

This users publish the daily activities schedule of the mosque. For that users need to login in our system. Then have to go publish schedule section for this task.

User-2:

This users can make donation by our system. For that users need to login in our system. Then they have to go make donation system and print the invoice.

User-3:

This users can search nearest mosque and view the facilities of the mosque. For that, users need to register in our system. Then they have to go search location in our system.

Result:

1. What was easy?

- -User1: Publishing the daily program schedule.
- -User2: Make donation and print invoice.
- -User3: Search Location.

2. What was difficult?

- -User1: None.
- -User2: None.
- -User3: GPS not connected sometime.

3. Why would user use this system?

- -User1: For managing the mosque very easily with appropriate way.
- -User2: For getting regular update and make donation very easily with secured way.
- -User3: For finding their desirable mosque and its location with the facilities.

4. Why wouldn't users use the system?

- -User1: If the authority don't have to internet access then they don't use this.
- -User2: If the authority of mosque don't want to collect the donation over online.

- -User3: If the system stole the user's personal information and miss use it.
- 5. How well would this system fit into user lives?
 - -User1: If the authority aren't well trained about using the basic computer then he might not be able to use it.
 - -User2: If the users are in Islamic believers then they might be benefited by using this system.
 - -User3: Users would be able to use the system to compare mosque facilities in their area. And get the best solutions.
- 6. What did the system not do that you wish it did?
 - -User1: The users thinks that, they might be able to control the whole mosque bills payment. But aren't be able to do that.
 - -User2: The users think that if the missing the program then they might be able to watch it later from recorded version. But couldn't be able to.
 - -User3: Not provided.
