



**FAKULTI TEKNOLOGI MAKLUMAT DAN KOMUNIKASI
UNIVERSITI TEKNIKAL MALAYSIA MELAKA**

**ASSIGNMENT 1: PROPOSAL
BITM 2113 (WEB APPLICATION DEVELOPMENT)**

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1.0 INTRODUCTION

1.1 Project Background

At the end of 2019, the world was rocked by an outbreak of such a violent pandemic, known as Coronavirus or Covid-19. This incident has forced human beings to live in new norms. Malaysia has also not escaped the onslaught of this pandemic. To control and break the chain of this pandemic, the government has implemented several Standard Operating Procedure (SOP) that must be complied with by all Malaysians. This SOPs is used throughout Malaysia, including houses of worship. For Muslims, the government has allowed every mosque to perform daily prayers and Friday prayers in congregation in accordance with the SOP set. The implementation of SOPs in mosques has resulted in limited prayer space, especially for Friday prayers. With the advent of digital technology today, we plan to develop a digital system known as MySaf Reservation that is able to manage the congregation who want to perform prayers in the mosque systematically. This system will be used by the mosque to determine the total capacity of the congregation allowed to attend congregational prayers at the mosque. In addition, to avoid any possibility that will happen, congregants who want to attend the mosque can make reservations in advance before attending the mosque to perform prayers.

1.2 Problem Statement

- a) The congregants who attend the mosque are not allowed to enter because the designated capacity has been met.
- b) The congregants did not get accurate information regarding the amount of capacity that is still available.
- c) The mosque management is facing difficulties in calculating the amount of remaining capacity manually.

1.3.Objectives

- a) To develop a digital system that allows congregants to make a reservation before coming to perform prayers.
- b) To provide a digital platform that allows congregants to check the total capacity that is still available.
- c) To provide a digital system that facilitates mosque management in order to calculate the remaining capacity digitally.

1.4 Scope

1.4.1 Module Developed

- a) User Authentication Module
- b) Manage User Module
- c) Manage Reservation Module
- d) Manage Report Module

1.4.2 Target Users

The target users for this system are:

- a) Mosque management staff
- b) Mosque Congregants

1.5 Project Significance

In order to prevent the covid-19 outbreak occurring among the congregation who attend to the mosque,a specific capacity needs to be set to avoid any close contact among the congregation. Thus,by using MySaf Reservation,the congregation can check and reserve their spot based on the availability of the mosque. This will allow only a specific number of people to attend the mosque based on the capacity.

1.6 Feasibility Study

Salary

No	Position	Salary Per Month
1	Project Manager (1)	RM 4,200
2	Programmer (2)	RM 3,200
3	Database Admin (1)	RM 3,000
4	Cloud Security Specialist (1)	RM 3,000
5	Instructional Designer (1)	RM 3,000
6	Web Designer(1)	RM 3,000

Total Cost= RM19400

Software

No.	Software	Price/Unit
1	Microsoft Visual Studio	RM 4,188
2	Microsoft Azure (Cloud)	RM 5,489
3	Adobe All Apps (Authoring tools)	RM 5,264
4	Microsoft SQL Server Standard	RM 989
5	Domain	RM100
6	cPanel (Premier) for hosting	RM250
7	Adobe Suite (per year)	RM900
8	Microsoft 365 Business premium (per year)	RM1,008

Total Cost = RM18 188

1.7 Advantages and Disadvantages

Advantage	Disadvantages
Reduce close contact among congregation	Approval needs to be managed manually by mosque staff.
Easier for the mosque staff to manage and assist the congregation to follow SOP.	Mosque staff may need proper instruction from the developer to manage the reservation

1.8 Features

- Users can check capacity and availability of spots on the mosque.
- Users can reserve a spot on the selected mosque.
- Staff can manage the reservation.
- Staff can set up opening and closing time for reservation
- System can generate report of the reservation

2.0 ANALYSIS

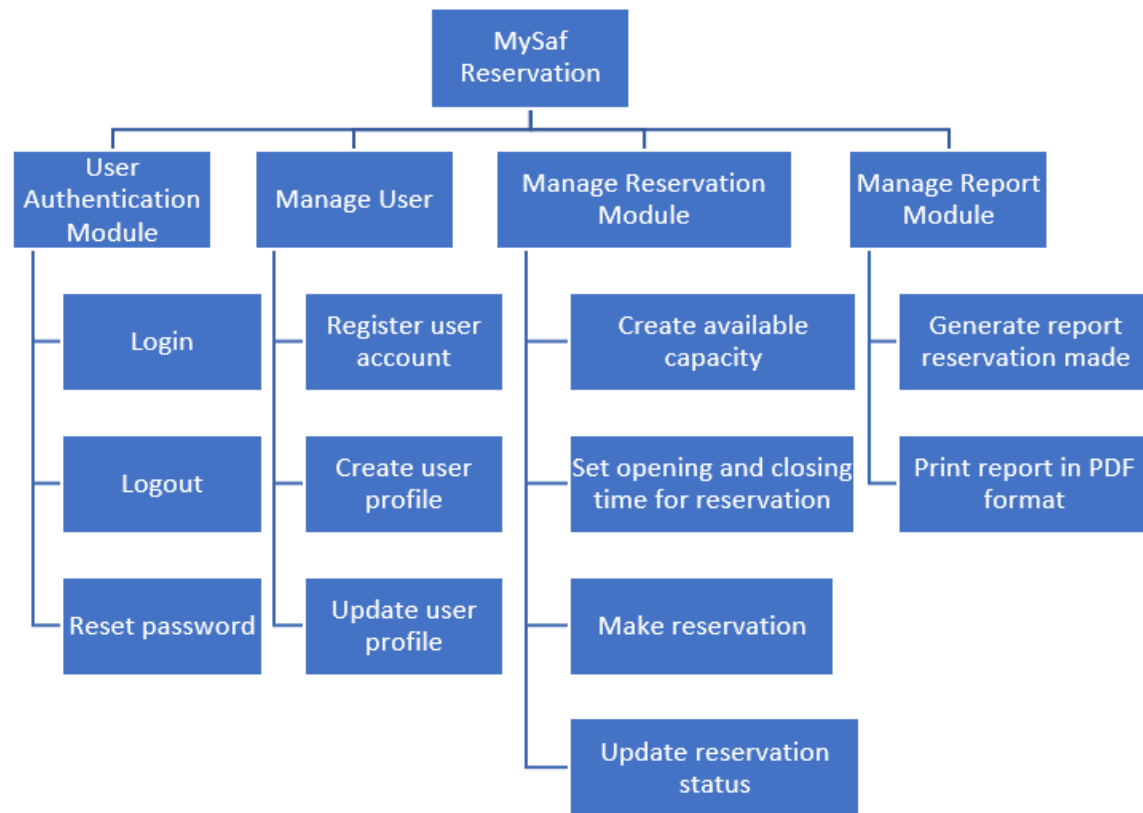
2.1 Requirement

Requirements in software development are the description of features and functionalities of the developed system. The table below shows the list requirement of MySaf Reservation system.

Requirement No.	Requirement name	Description
SR 101 SR 102 SR 103 SR 104 SR 105	Login	<ol style="list-style-type: none">1. The system should display the login form for the user.2. The system should be able to validate whether the user's email and password is correct or not.3. The user password must have the combination of alphabetical, numerical and symbol.4. If a user enters a valid email and password, the system should display a success message and be able to log into the system.5. If a user enters a invalid email and password, the system should display an error message and not be able to log into the system.
SR 106 SR 107	Logout	<ol style="list-style-type: none">1. The system should be able to logout after the user clicks the logout button.2. The system should be able to go to the log in page after logout.
SR 108	Manage user	<ol style="list-style-type: none">1. The system should allow users to

SR 109 SR 110		<p>register an account.</p> <ol style="list-style-type: none"> 2. The system should be able to create a user profile. 3. The system should be able to update a user profile.
SR 111 SR 112 SR 113 SR 114 SR 115 SR 116 SR 117	Manage reservation	<ol style="list-style-type: none"> 1. The system should be able to create available capacity. 2. The system should be able to set the opening and closing time for reservation. 3. The system should be able to display the dynamic capacity counter. 4. The system should allow users to make a reservation through the system. 5. The system should be able to display reservation verification status. 6. The system should be able to display the list of reservations. 7. The system should be able to update reservation status according to the attendance.
SR 118 SR 119	Manage Report	<ol style="list-style-type: none"> 1. The system should be able to generate reports regarding the number of reservations made weekly and monthly. 2. The system should be able to keep a history record of reservations made.

2.2 Functional Analysis



3.0 DESIGN

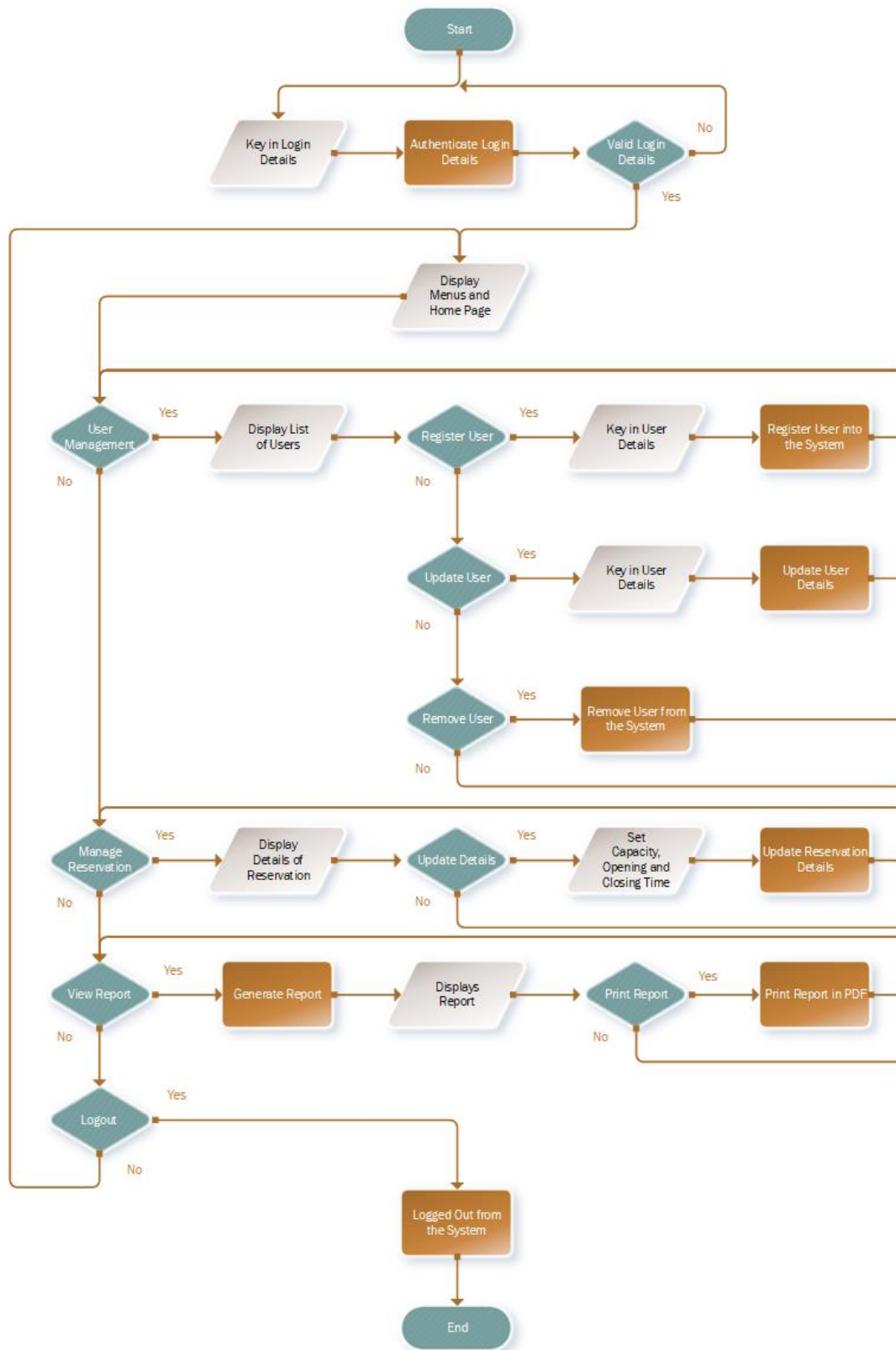
3.1 Conceptual Design

Conceptual design is a stage in the design process of MySaf Reservation system. It includes the flowchart, site structure design, context diagram, entity relationship diagram, and interface design of the system.

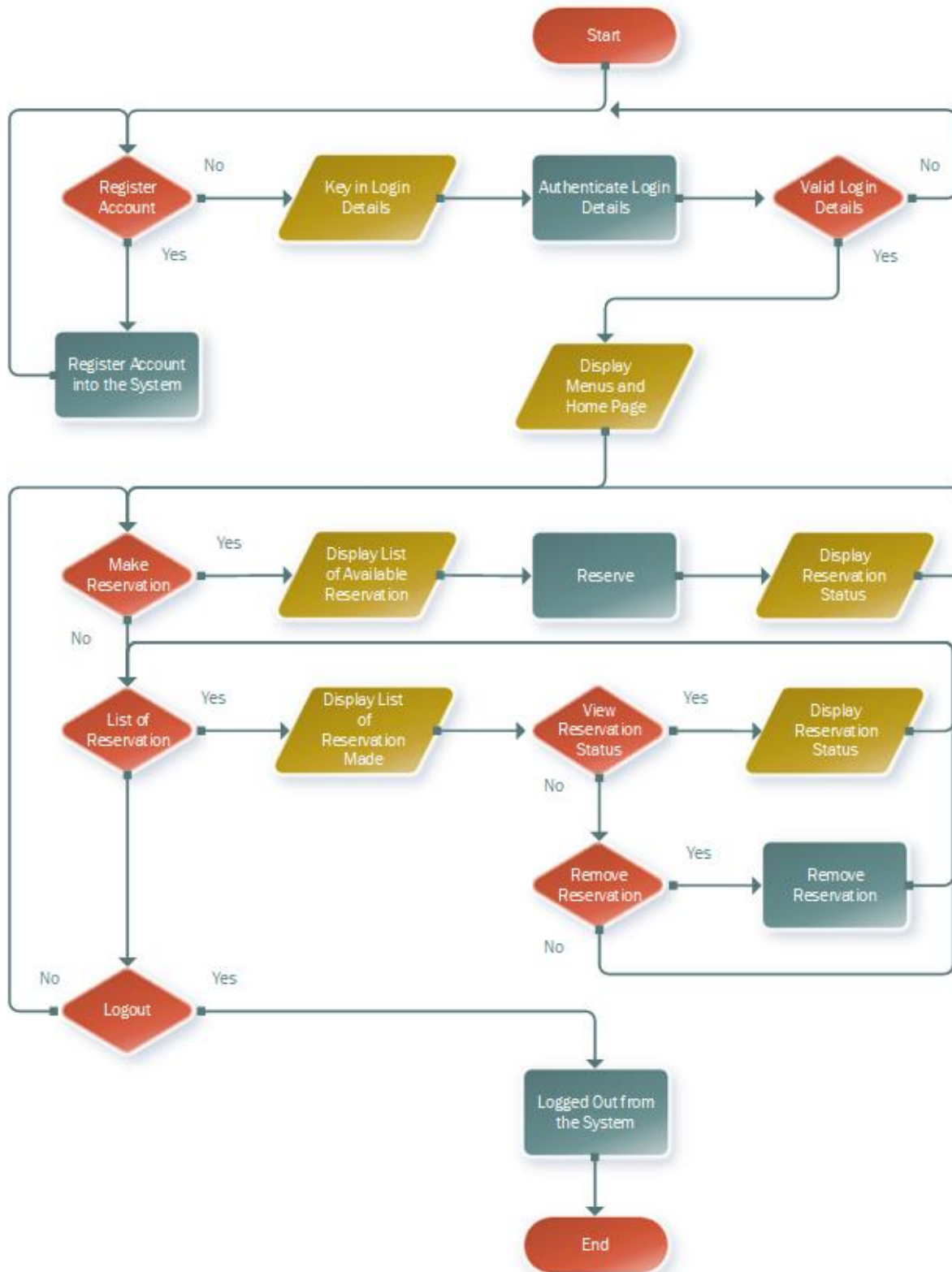
3.1.1 Flowchart

The flowchart shows the workflow or process for the MySaf Reservation system. The system consists of two users which are members of the mosque committee and users.

3.1.1.1 Mosque Committee

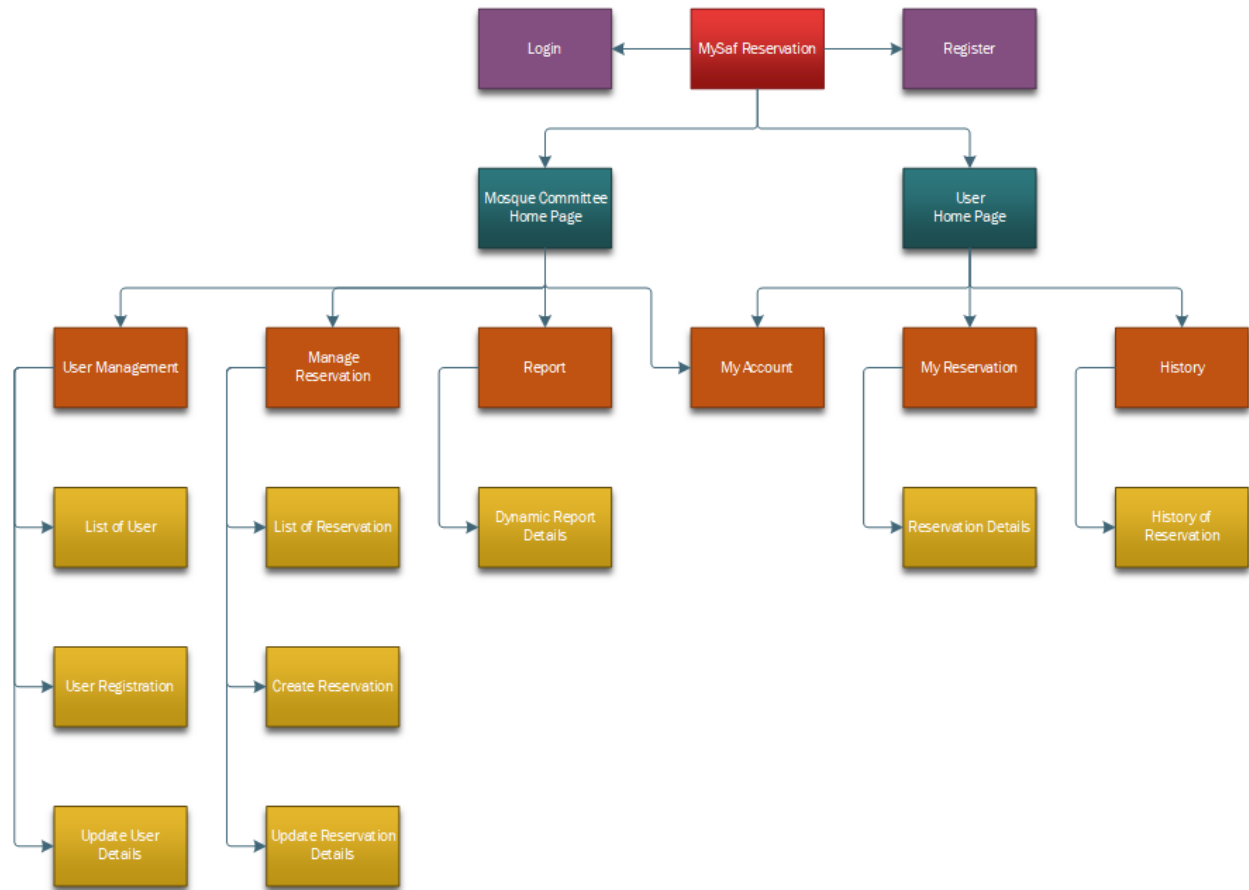


3.1.1.2 User



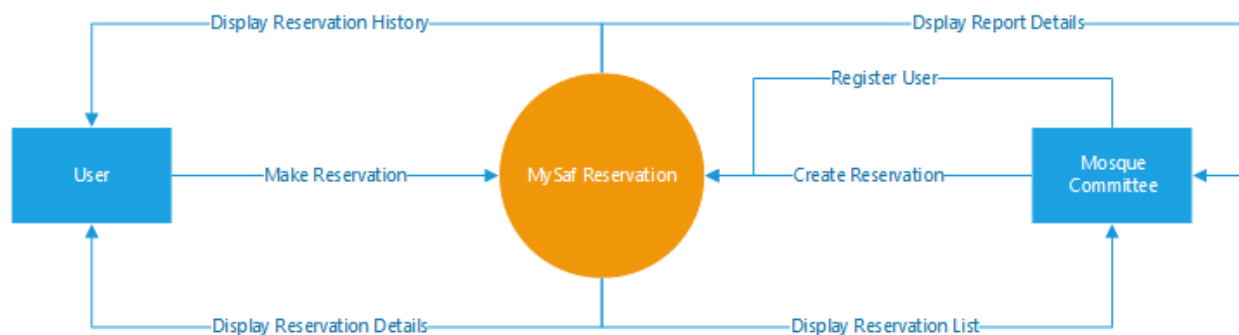
3.1.2 Site Structure Design

The site structure design shows the website's content and information that has been organized for the MySaf Reservation.



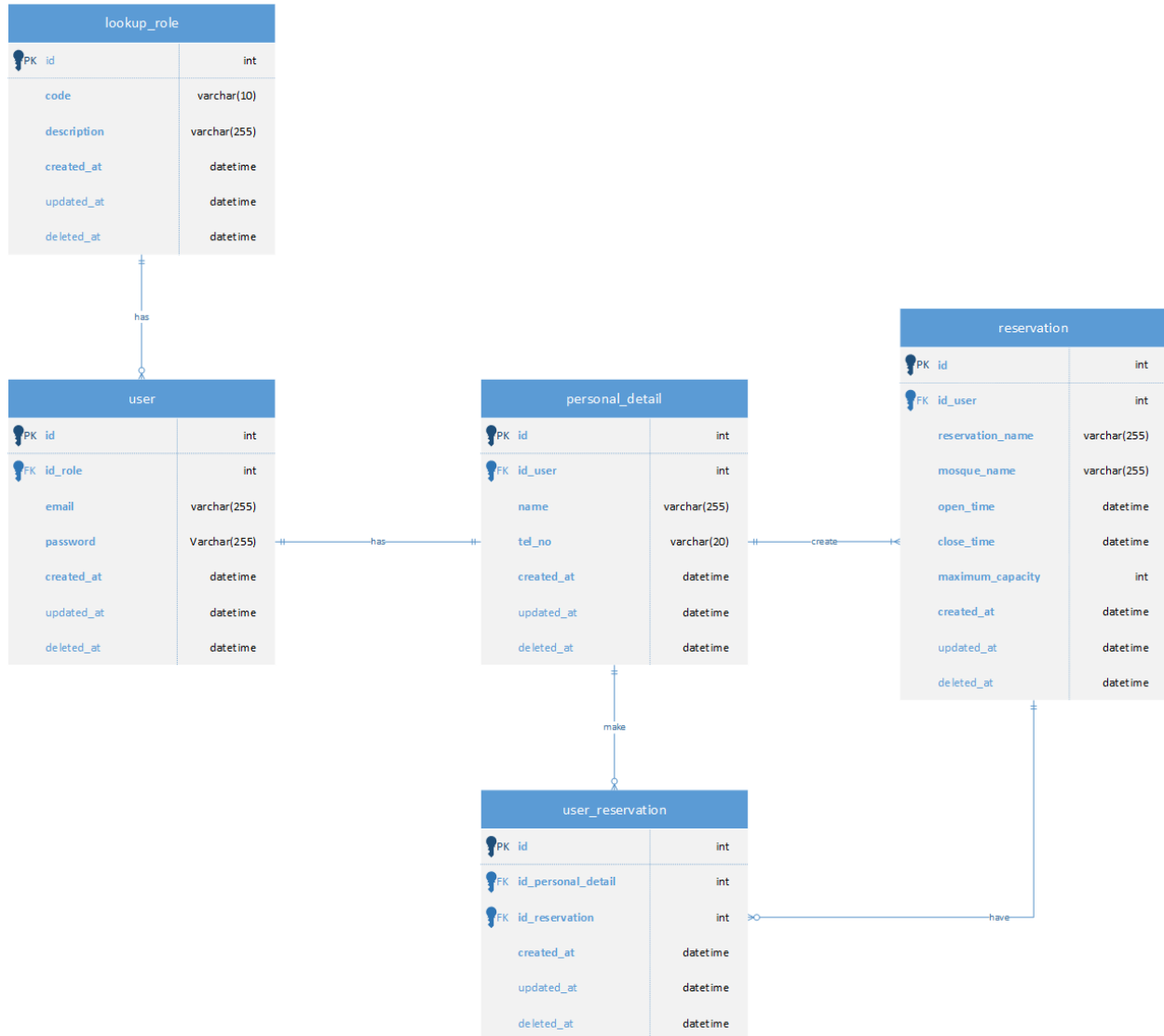
3.1.3 Context Diagram

The context diagram shows the flow of information between MySaf Reservation and external entities which are the user and mosque committee.



3.1.4 ERD

Entity Relationship Diagram (ERD) depicts the conceptual database by displaying the relationships between entities as well as the properties that each entity contains.



3.1.5 Interface Design

a) Login Page

MySaf Reservation	
https://mysafreservation.com	
<div><div>LOGIN</div><div>No account? Click here to register.</div><div>ID/Email</div><div><input type="text" value="Enter your ID/Email"/></div><div>Password</div><div><input type="password" value="Enter your password"/></div><div><div>CANCEL</div><div>LOGIN</div></div><div>Forgot Password?</div></div>	

b) Register account

MySaf Reservation	
https://mysafreservation.com	
<div>ACCOUNT REGISTRATION</div> <div><div>Name</div><div><input type="text" value="Enter your Name"/></div><div>Email Address</div><div><input type="text" value="Enter your email address"/></div><div>Phone Number</div><div><input type="text" value="Enter your phone number"/></div><div>Password</div><div><input type="password" value="Enter your password"/></div><div><div>CANCEL</div><div>SUBMIT</div></div></div>	

c) Home page

MySaf Reservation				
https://mysafreservation.com				
Home Page				
Home	My Reservation	History	My Account	Logout
Friday Prayers				
Date : 12/11/2021				
Reservation Time				
OPEN		Thursday : 10:00 AM		
CLOSE		Friday: 10:00 AM		
Capacity limit : 100 Current capacity : 75 <div style="text-align: center;"> </div> <div style="text-align: center;"> 0 100 </div> <div style="text-align: center; margin-top: 10px;"> Reserve Now </div>				

d) My Reservation page

MySaf Reservation									
https://mysafreservation.com									
My Reservation									
Home	My Reservation								
History	My Account								
Logout									
Friday Prayers									
Date : 12/11/2021									
<table border="1" style="margin: 10px auto; width: 80%;"> <tr> <td colspan="2" style="background-color: #4CAF50; color: white; text-align: center; padding: 5px;">RESERVED</td> </tr> <tr> <td style="width: 30%;">Mosque Name:</td> <td>Masjid Sayyidina Abu Bakar UTeM</td> </tr> <tr> <td>Reserve by :</td> <td>Farid Kamil</td> </tr> <tr> <td>Reservation date:</td> <td>11/11/2021</td> </tr> </table> <div style="text-align: center; margin-top: 10px;"> CANCEL RESERVATION </div>		RESERVED		Mosque Name:	Masjid Sayyidina Abu Bakar UTeM	Reserve by :	Farid Kamil	Reservation date:	11/11/2021
RESERVED									
Mosque Name:	Masjid Sayyidina Abu Bakar UTeM								
Reserve by :	Farid Kamil								
Reservation date:	11/11/2021								

e) Reservation history page

MySaf Reservation																
https://mysafreservation.com																
History																
Home	My Reservation	History	My Account	Logout												
<table><tr><th>Reservation Date</th><th>Prayers Date</th><th>Status</th></tr><tr><td>29/11/2021</td><td>29/11/2021</td><td>Attend</td></tr><tr><td>04/11/2021</td><td>05/11/2021</td><td>Canceled</td></tr><tr><td>11/11/2021</td><td>11/11/2021</td><td>Attend</td></tr></table>					Reservation Date	Prayers Date	Status	29/11/2021	29/11/2021	Attend	04/11/2021	05/11/2021	Canceled	11/11/2021	11/11/2021	Attend
Reservation Date	Prayers Date	Status														
29/11/2021	29/11/2021	Attend														
04/11/2021	05/11/2021	Canceled														
11/11/2021	11/11/2021	Attend														

f) User Management Page







MySaf Reservation

https://mysafreservation.com

User Management

User ManagementManage ReservationReportMy AccountLogout

Register User

No	Name	Role	Action
1.	Hassan Ghazali	Admin	 
2.	Sulaiman Omar	AJK	 
3.	Hamzah Jailani	AJK	 

g) Create Reservation Page

MySaf Reservation				
https://mysafreservation.com				
Create Reservation				
User Management	Manage Reservation	Report	My Account	Logout
<div> <div>Create Reservation</div> <div>List of Reservation</div> </div>				
Select Date <input type="text" value="11/12/2021"/>				
Capacity limit <input type="text" value="100"/>				
<u>Open</u>				
Day <input type="text" value="Thursday"/>		Date <input type="text" value="11/11/2021"/>		
<u>Closed</u>				
Day <input type="text" value="Friday"/>		Date <input type="text" value="12/11/2021"/>		
<input type="button" value="Cancel"/>		<input type="button" value="Save"/>		

h) Manage Reservation page

MySaf Reservation				
https://mysafreservation.com				
Manage List of Reservation				
User Management	Manage Reservation	Report	My Account	Logout
<div> <div>Create Reservation</div> <div>List of Reservation</div> </div>				
Select Date <input type="text" value="12/11/2021"/>				
No	Name	Reservation Date	Prayers Date	Action
1.	Kamal	12/11/2021	12/11/2021	<input type="button" value="Attend"/>
2.	Asyraf	11/11/2021	12/11/2021	<input type="button" value="Attend"/>
3.	Zaki	11/11/2021	12/11/2021	<input type="button" value="Attend"/>