Mosque Regulation System

Documentation

Course Code: SWE 431
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Submitted By:

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Submitted To : Advisor
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The project (**Mosque Regulation System**) submitted in partial fulfillment of the requirement for the degree of Bachelor of Science in Software Engineering

Date-03-12-2019

APPROVAL

This **Project** titled "**Mosque Regulation System**", submitted by **Abir Hasan Apon**, **ID: 151-35-925** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc in Software Engineering and approved as to its style and contents.

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DECLARAT IO N

We hereby declare that this project has been done by us under the supervision
of Dr. Asraf Ali, Associate Professor, Department of SWE, Daffodil
International University. We also declare that neither this project nor any part
of this project has been submitted elsewhere tor the award any degree.

Supervised by:

Dr. Asraf Ali
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Acknowledgement

I feel grateful to Dr. Asraf Ali, Associate Professor, Department of Software Engineering at Daffodil International University, Dhaka .For his fantastic idea and excellent guidance that has made this project successful. He is very helpful, patience and very good instructor. Without his valuable advice would not be possible to complete this project. I am very thankful as get him as my supervisor.

Dedicate

I would like to dedicate this project to my family, lecturers, and friends. A special feeling of

gratitude to my beloved parents for supporting me all this time. I also want to dedicate this

project to my supervisor, Dr. Asraf Ali for all his helps, support, and patience in guiding me to

finish this project. I dedicate this work to all my friends that help me out during the development

of this project and give me moral support to finish it. All of you have been a great support to me.

ABSTRACT

This project was aimed for the Muslim community to allow them use some of the services provided by

the mosque through online and to make the community aware about the activities or events that are being

held at the mosque or among the community. To allow the members receive the information regarding

any activities around the community, the project was developed as a web based system that allow user to

access from anywhere and anytime.. This system was developed on Windows 10 platform using software

such as PhpStorm, Laravel, SublineText, MSQL server, and Google Chrome Was used to store and

support the system.

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Chapter 6: System Testing

Chapter 7: Project Summary

Chapter 1: Introduction

1.1 Project Overview:

Basically, our country is going to be a digital country. And Dhaka is the city of mosque. But most of the mosque have no any website or regulation web app which can handle mosque's tasks. We know there are lots of tasks like events, notice, Waz, Mahafil, money transaction of a mosque which is handle on offline based but in digital world we should have to shift also over internet. It is the motivation of mine to develop a web app which will handle all of tasks of a mosques which will be able to handle many tasks like events, notice, money transaction, E-Book library, video gallery, photo gallery, FAQ etc. This app will help us to solve many problems. Suppose, have a very important Waz Mahafil in mosque but a person didn't attend this Mahafil for some personal reason it will help this person to see that Mahafil in video gallery in our web app. Like that this app will help us to solve many problems.

1.2 Project Purpose:

1.2.1 **Background:** Our background will be on web application. Which will handle mosque's all tasks. And other extra task will be done by human resource.

1.2.2 **Benefits:** Benefit will be providing services to users and mosques committee will be benefited and get donation from internet.

1.2.3 **Goal:** Our goal is to provide all services of a mosque over the internet to users.

1.3 Stakeholders:

1) Project Development team

2) System Maintainers.

3) Users.

1.4 Project Schedule and module:

1) System Prototype Design.

2) UI design for Customer (Front End)

3) Backed design.

4) Help Center.

5) FAQ system.

6) Video Gallery.

7) Photo Gallery.

8) E-Book Library.

1.5 Related Work:

Have a few web app in the world which provides services for a mosque over the internet. Also, they are slight usability problems. In BD there have no any app which is provides those service together over the internet. But in related we have found few apps which provides to read only Quran, Hadith and Islamic books. But in our app, we have to add those features also we have added video gallery and photo gallery and online FAQ services features which make us different from other apps.

1.6 Problem Statements:

1. Existing many mosque apps have no online FAQ system so that people cannot shares problems to IMAM of a mosque.
2. If any person wanted to see all money transaction of a mosque than they cannot able to see that.
3. People can't see the Mahafil of a mosque without YouTube but There have searching problem and it is difficult to find a Mahafil which held on a mosque.

1.7 Proposed Solution:

We saw that problems of existing systems. So, we will fix all and develop our

project.

1. Help center (FAQ).

2. Video gallery.

3. Photo gallery.

4. Mosque committee view.

5. Notice Board.

6. Money Transaction.

7. Book Library.

8. Ramadan Calendar.

9. Salat Time.

10. User friendly UI design.
11. Events.

Chapter 2: Software Requirement Specification

2.1 Functional Requirement for admin:

- View: Admin can able to browse all of sites.

- Events: Admin are able to add, update, and delete events.

- Photos: Admin are able to add, update, delete photo.

- Videos: Admin are able to add, update, and delete videos.

- Notice: Admin are able to add, update, and delete notice.

- E-Book: Admin are able to add, update, delete book library.

- Committee: Admin are able to add, update, and delete Committee.

- Ramadan Calendar: Admin are able to add, update, delete Ramadan calendar.

- Salat Time: Admin are able to add, update, and delete Salat time.

- FAQ: Admin is able to see FAQ and able to throw answer to users.

2.2 Functional Requirement for users:

- View: Users can able to browse all of sites of user's portion.

- Events: Users are able to see events.

- Photos: Users are able to see photos.

- Videos: Users are able to see videos.

- Notice: Users are able to see notice board.

- E-Book: Users are able to see book library.

- Committee: Users are able to see mosque committee.

- Ramadan Calendar: Users are able to see Ramadan calendar.

- Salat Time: Users are able to see Salat time

- FAQ: Users are able to ask question to imam.

2.3 Non-Functional Requirement:

- Performance: All of system fail can be handle properly.

- Usability: Our system will be much user friendly.

- Reliability: We ensure much security for data.

Chapter 3: System Analysis

3.1 Use Case Diagram for Admin:
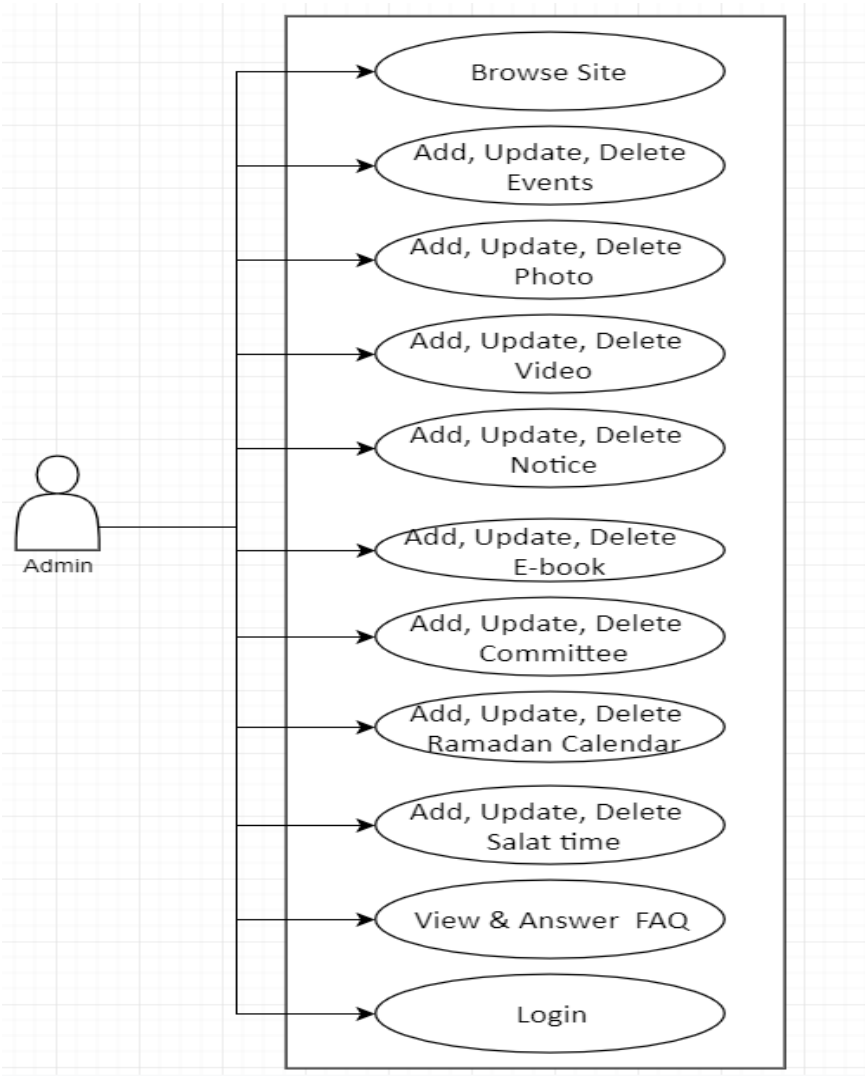
3.2 Use Case Diagram for User:

3.3 Use Case Description:

<div align="center">For Admin</div>

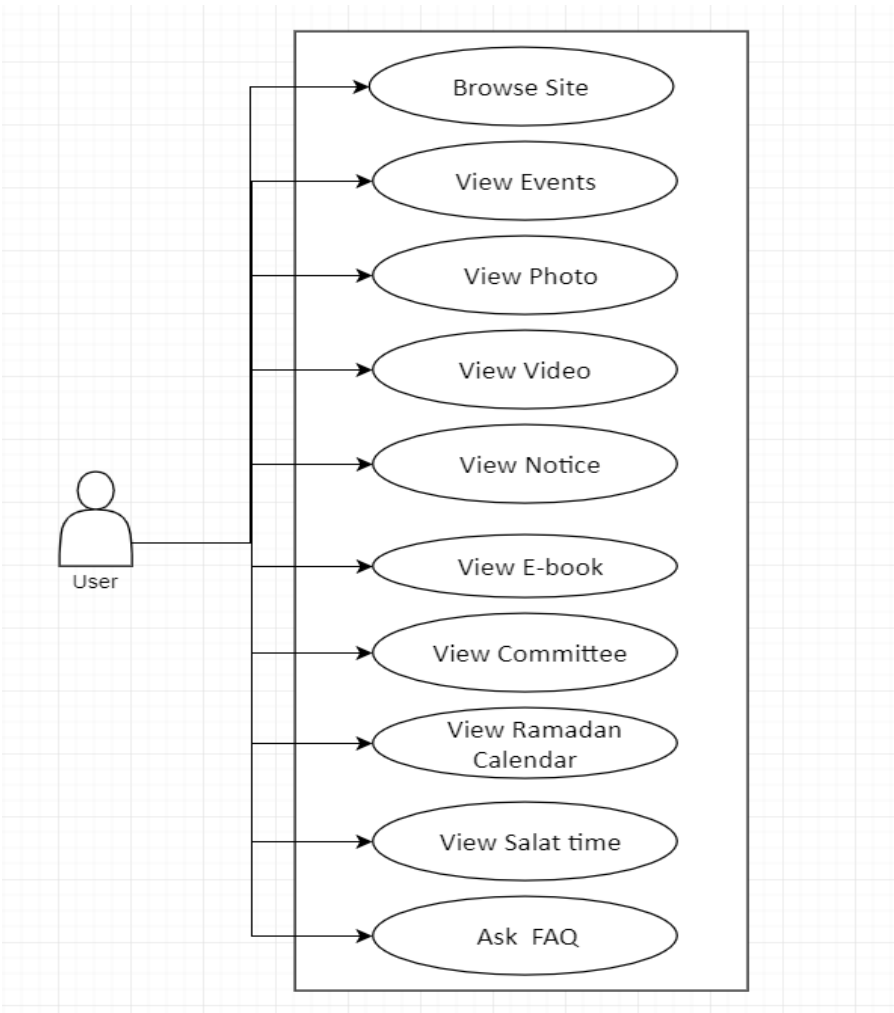| Use Case	Browse Site
Goal	Admin can able to browsing whole site
Preconditions	Have to log in in our site
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors:	Admin
Secondary Actors:	Advertising Company.
Trigger	N/A
Description	Admin can browse site
Alternative Flows	N/A

<div align="center">For Admin</div>

Use Case	Login
Goal	Admin can able to login in this app to meet goal.
Preconditions	Have to be registered.
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors:	Admin
Secondary Actors:	Advertising Company.
Trigger	N/A
Description	Admin can login in this site.
Alternative Flows	N/A

For Admin

Use Case	Add, Update, Delete Event
Goal	Admin will be able to add, update, delete event.
Preconditions	Have to be logged in.
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors:	Admin
Secondary Actors:	Advertising Company.
Trigger	N/A
Description	Admin can able to logged in and able to add, update or delete event in this site.
Alternative Flows	N/A

For Admin

Use Case	Add, Update, Delete Photo
Goal	Admin will be able to add, update, delete photo.
Preconditions	Have to be logged in.
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors:	Admin
Secondary Actors:	Advertising Company.
Trigger	N/A
Description	Admin can able to logged in and able to add, update or delete photo in this site.
Alternative Flows	N/A

For Admin

Use Case	Add, Update, Delete Video
Goal	Admin will be able to add, update, and delete Video.
Preconditions	Have to be logged in.
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors:	Admin
Secondary Actors:	Advertising Company.
Trigger	N/A
Description	Admin can able to logged in and able to add, update or delete Video in this site.
Alternative Flows	N/A

For Admin

Use Case	Add, Update, Delete Notice
Goal	Admin will be able to add, update, delete Notice.
Preconditions	Have to be logged in.
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors:	Admin
Secondary Actors:	Advertising Company.
Trigger	N/A
Description	Admin can able to logged in and able to add, update or delete Notice in this site.
Alternative Flows	N/A

For Admin

Use Case	Add, Update, Delete E-book
Goal	Admin will be able to add, update, delete E-book.
Preconditions	Have to be logged in.
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors:	Admin
Secondary Actors:	Advertising Company.
Trigger	N/A
Description	Admin can able to logged in and able to add, update or delete E-book in this site.
Alternative Flows	N/A

For Admin

Use Case	Add, Update, Delete Committee
Goal	Admin will be able to add, update, delete Committee.
Preconditions	Have to be logged in.
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors:	Admin
Secondary Actors:	Advertising Company.
Trigger	N/A
Description	Admin can able to logged in and able to add, update or delete Committee in this site.
Alternative Flows	N/A

For Admin

Use Case	Add, Update, Delete Ramadan Calendar
Goal	Admin will be able to add, update, delete Ramadan Calendar.
Preconditions	Have to be logged in.
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors:	Admin
Secondary Actors:	Advertising Company.
Trigger	N/A
Description	Admin can able to logged in and able to add, update or delete Ramadan Calendar in this site.
Alternative Flows	N/A

For Admin

Use Case	Add, Update, Delete Salat Time
Goal	Admin will be able to add, update, delete Salat Time.
Preconditions	Have to be logged in.
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors:	Admin
Secondary Actors:	Advertising Company.
Trigger	N/A
Description	Admin can able to logged in and able to add, update or delete Salat Time in this site.
Alternative Flows	N/A

For Admin

Use Case	Add, Update, Delete FAQ
Goal	Admin will be able see question of users and able to answer.
Preconditions	Have to be logged in.
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors:	Admin
Secondary Actors:	Advertising Company.
Trigger	N/A
Description	Admin can able to logged in and able see question of users and able to answer.
Alternative Flows	N/A

For User

Use Case	Browse site
Goal	User will be able browse site.
Preconditions	N/A
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors:	User
Secondary Actors:	Advertising Company.
Trigger	N/A
Description	User can able to browse this site.
Alternative Flows	User will go to home page.

For User

Use Case	View Event
Goal	User will be able to see Events in site.
Preconditions	N/A
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors:	User
Secondary Actors:	Advertising Company.
Trigger	N/A
Description	User will be able to see Events in site.
Alternative Flows	User will go to home page.

For User

Use Case	View Photo
Goal	User will be able to see Photo in site.
Preconditions	N/A
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors:	User
Secondary Actors:	Advertising Company.
Trigger	N/A
Description	User will be able to see Photo in site.
Alternative Flows	User will go to home page.

For User

Use Case	View Video
Goal	User will be able to see Video in site.
Preconditions	N/A
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors:	User
Secondary Actors:	Advertising Company.
Trigger	N/A
Description	User will be able to see Video in site.
Alternative Flows	User will go to home page.

For User

Use Case	View Notice
Goal	User will be able to see Notice in site.
Preconditions	N/A
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors:	User
Secondary Actors:	Advertising Company.
Trigger	N/A
Description	User will be able to see Notice in site.
Alternative Flows	User will go to home page.

For User

Use Case	View E-Book
Goal	User will be able to see E-Book in site.
Preconditions	N/A
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors: **Secondary Actors:**	User Advertising Company.
Trigger	N/A
Description	User will be able to see E-Book in site.
Alternative Flows	User will go to home page.

For User

Use Case	View Committee
Goal	User will be able to see Committee in site.
Preconditions	N/A
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors: **Secondary Actors:**	User Advertising Company.
Trigger	N/A
Description	User will be able to see Committee in site.
Alternative Flows	User will go to home page.

For User

Use Case	View Ramadan Calendar
Goal	User will be able to see Ramadan Calendar in site.
Preconditions	N/A
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors:	User
Secondary Actors:	Advertising Company.
Trigger	N/A
Description	User will be able to see Ramadan Calendar in site.
Alternative Flows	User will go to home page.

For User

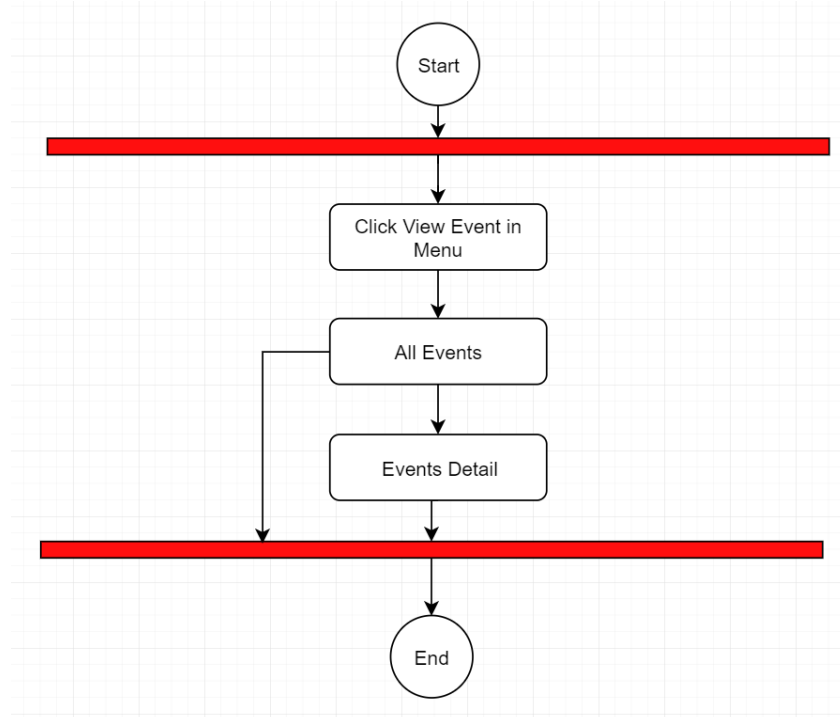| Use Case	View Salat Time
Goal	User will be able to see Ramadan Calendar in site.
Preconditions	N/A
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors:	User
Secondary Actors:	Advertising Company.
Trigger	N/A
Description	User will be able to see Ramadan Calendar in site.
Alternative Flows	User will go to home page.

For User

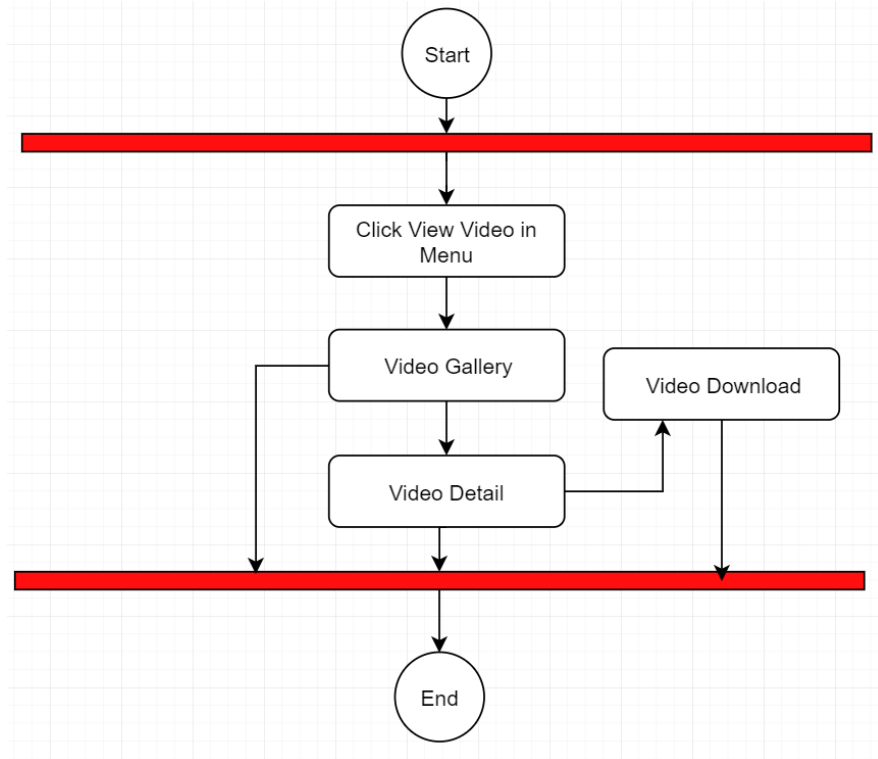| Use Case	Ask FAQ
Goal	User will be able to ask question to admin or imam in site.
Preconditions	N/A
Success End Condition	Mosque can get money using advertising in sites.
Failed End Condition	Mosque don't not got money.
Primary Actors:	User
Secondary Actors:	Advertising Company.
Trigger	N/A
Description	User will be able to ask question to admin or imam in site.
Alternative Flows	User will go to home page.

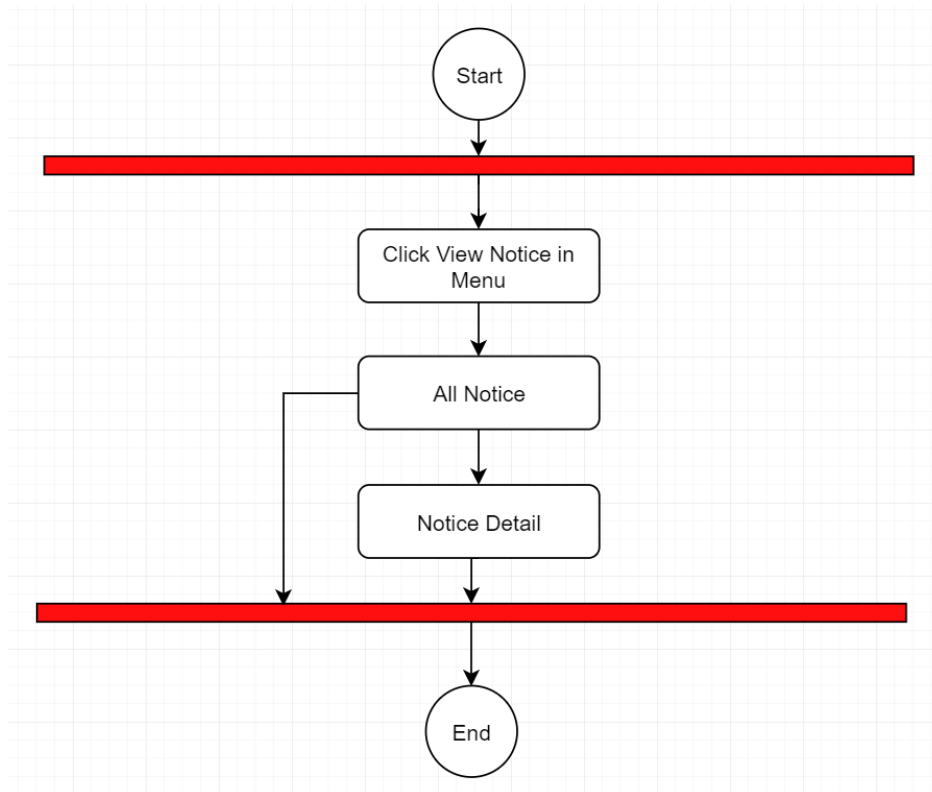## 3.4 Activity Diagram for User:
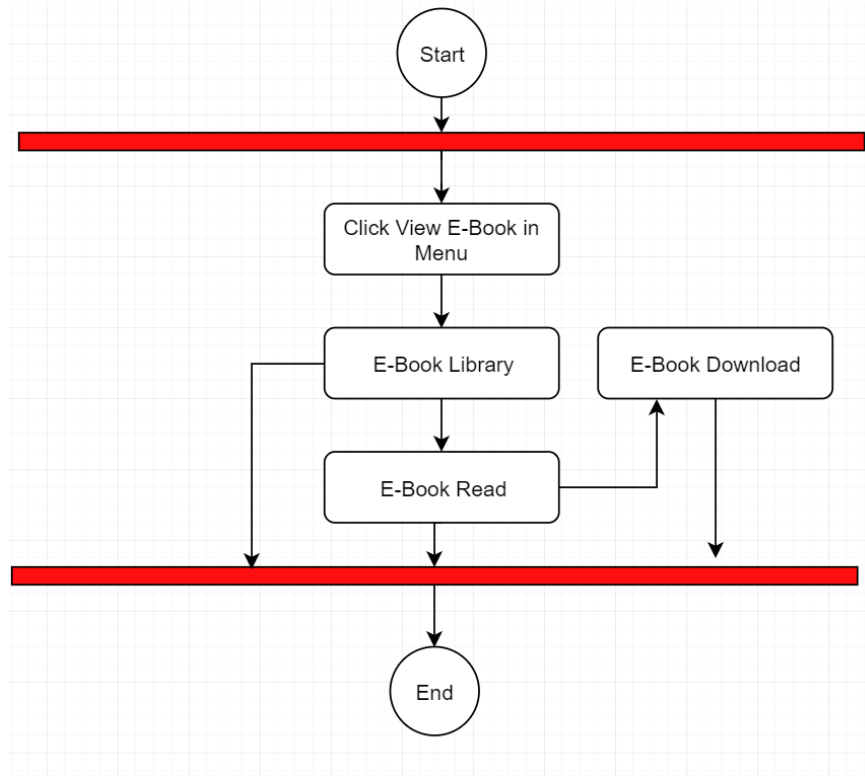
3.4.1 Browse Site:
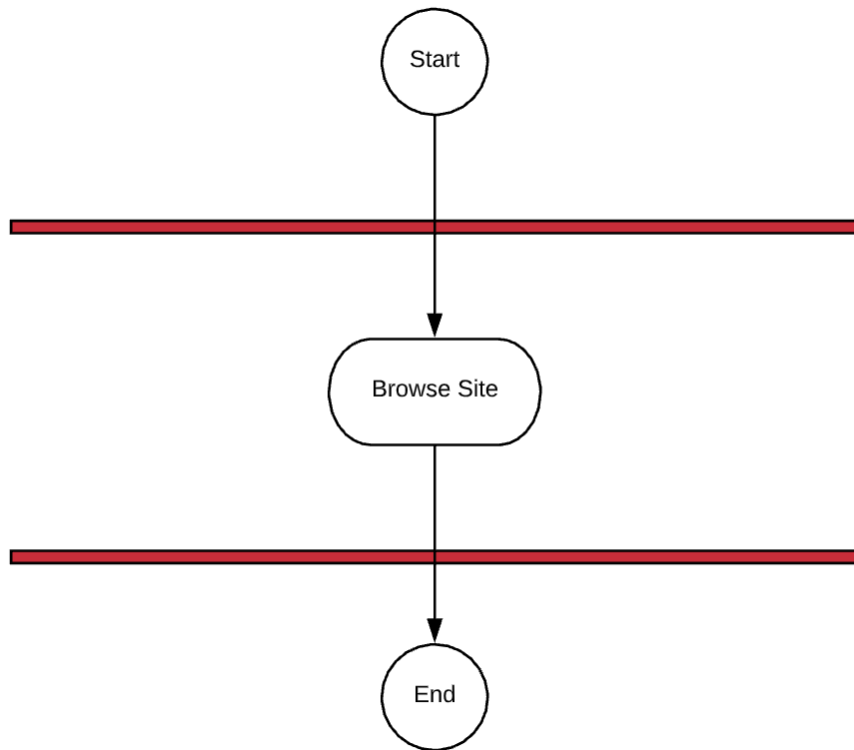
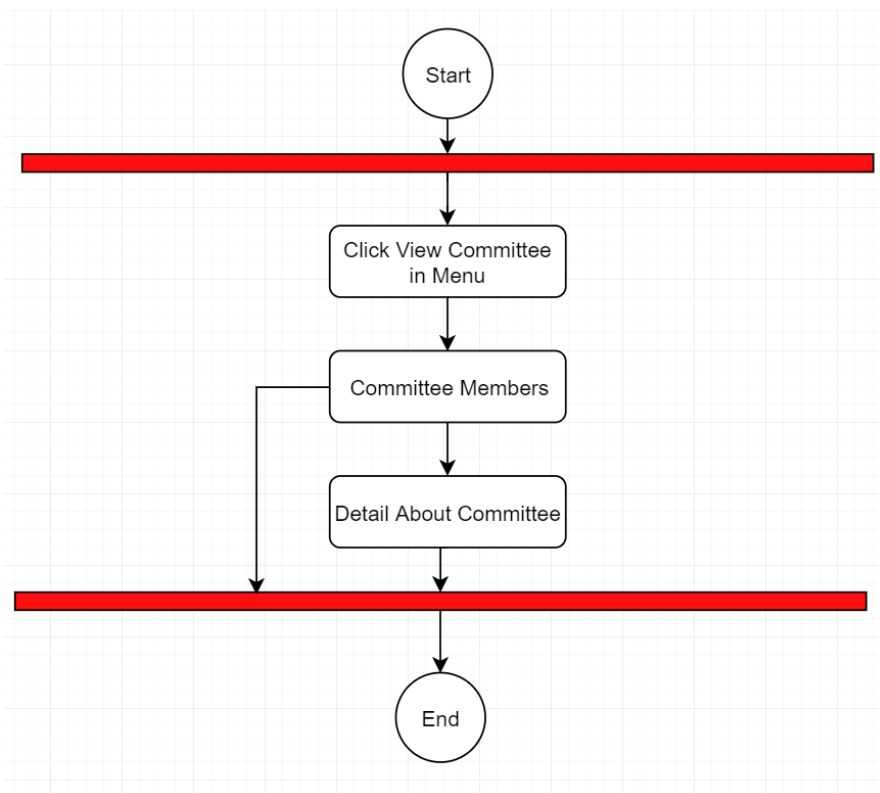### 3.4.2 View Event:

3.4.3   View Photo:

3.4.4 View Video:

Start

Click View Video in Menu

Video Gallery

Video Download

Video Detail

End

3.4.5 View Notice:

Start

Click View Notice in Menu

All Notice

Notice Detail

End
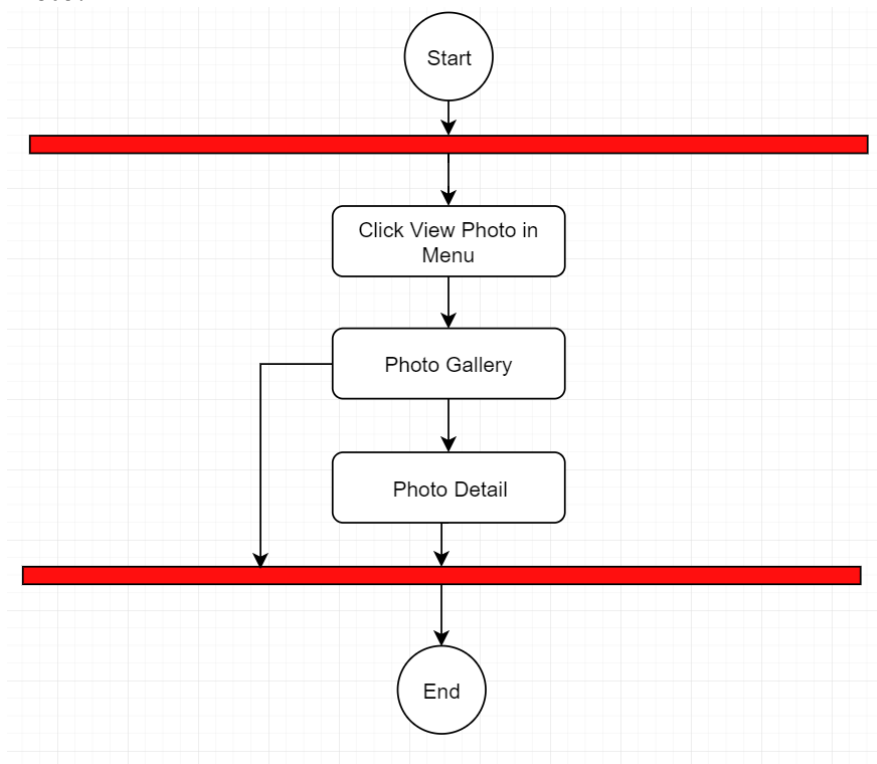
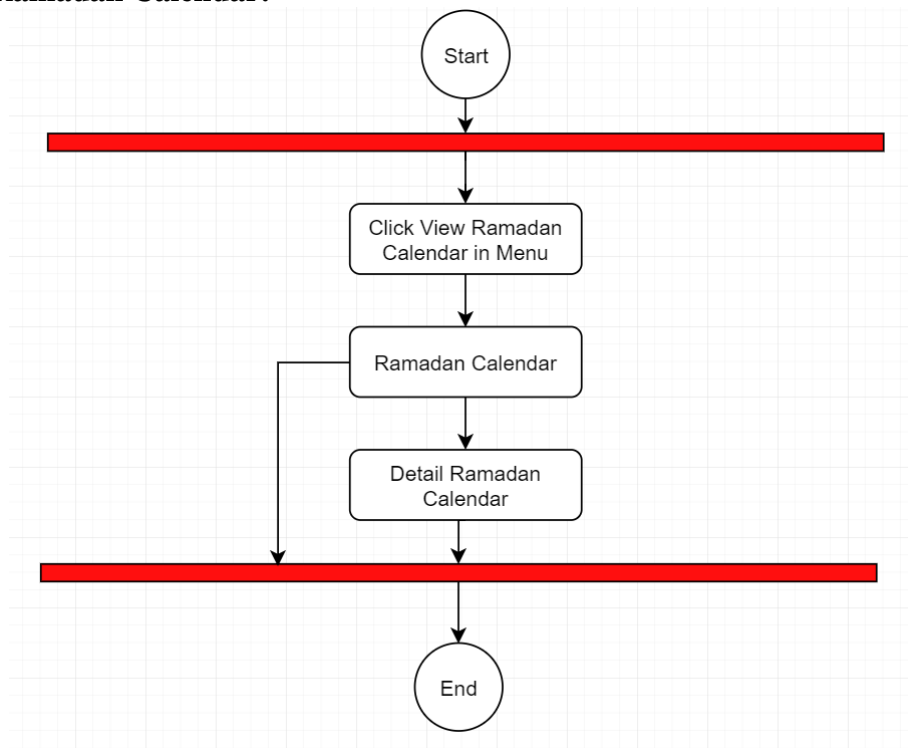### 3.4.6 View E-Book:

3.4.7 View Committee:

3.4.8 View Ramadan Calendar:

```
                          ( Start )
                             |
     ==========================================
                             |
                   ┌─────────────────┐
                   │ Click View Ramadan │
                   │ Calendar in Menu   │
                   └─────────────────┘
                             |
                   ┌─────────────────┐
          ┌────────│ Ramadan Calendar │
          │        └─────────────────┘
          │                  |
          │        ┌─────────────────┐
          │        │ Detail Ramadan   │
          │        │ Calendar         │
          │        └─────────────────┘
          │                  |
     =====│======================================
          └─────────────────┐|
                           ( End )
```

3.4.9 View Salat Time:

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                             |
     ==========================================
                             |
                   ┌─────────────────┐
                   │ Click View Salat Time in │
                   │ Menu                     │
                   └─────────────────┘
                             |
                   ┌─────────────────┐
          ┌────────│ All Salat Time   │
          │        └─────────────────┘
          │                  |
          │        ┌─────────────────┐
          │        │ Specific date time │
          │        └─────────────────┘
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          └─────────────────┐|
                           ( End )
```
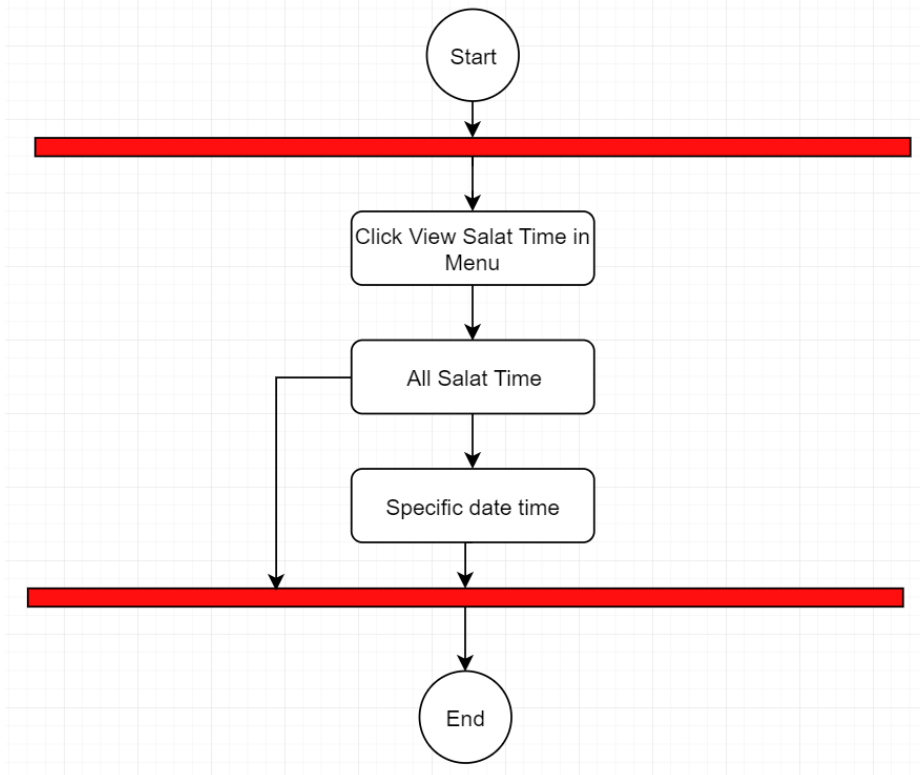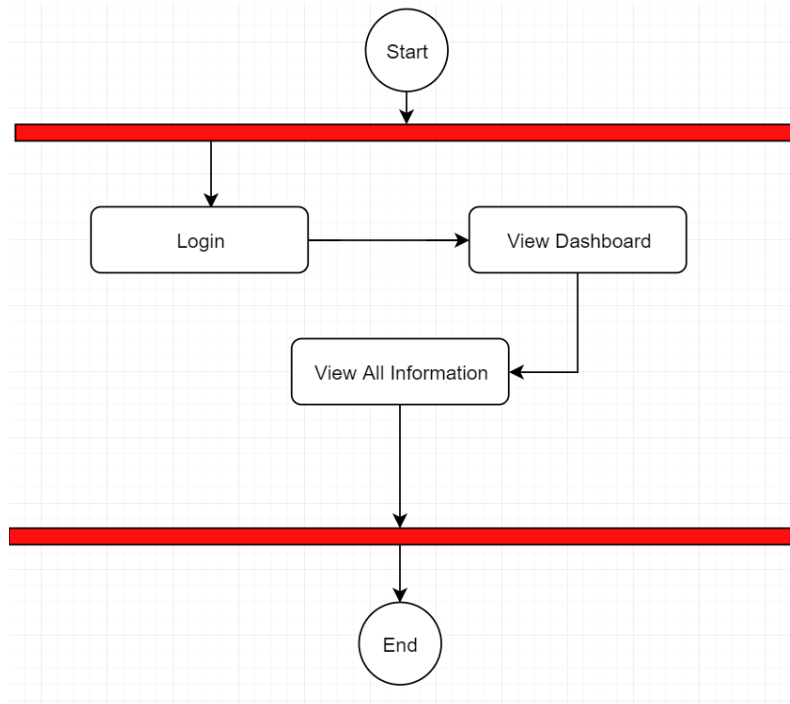
3.4.10 Ask FAQ:
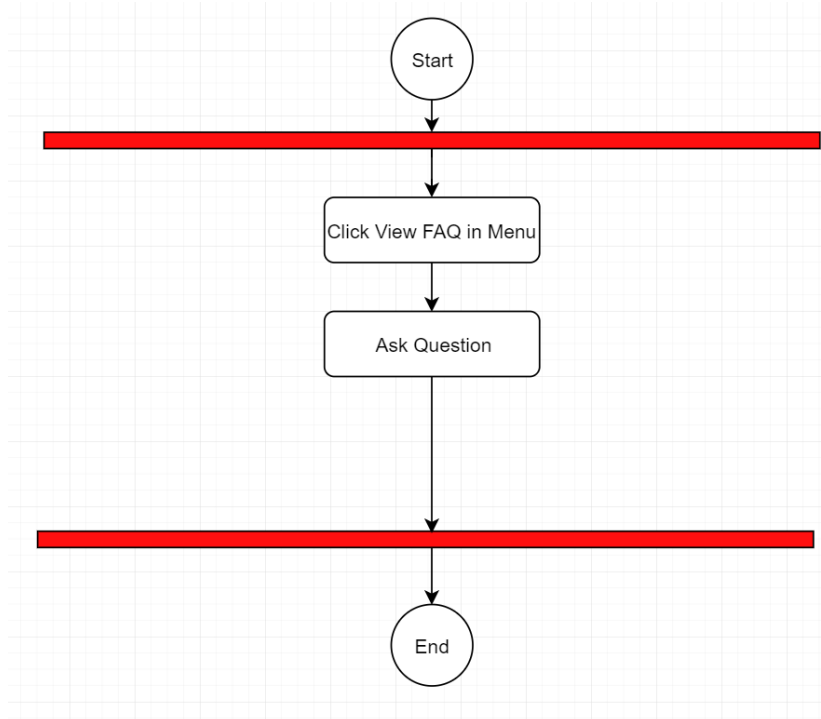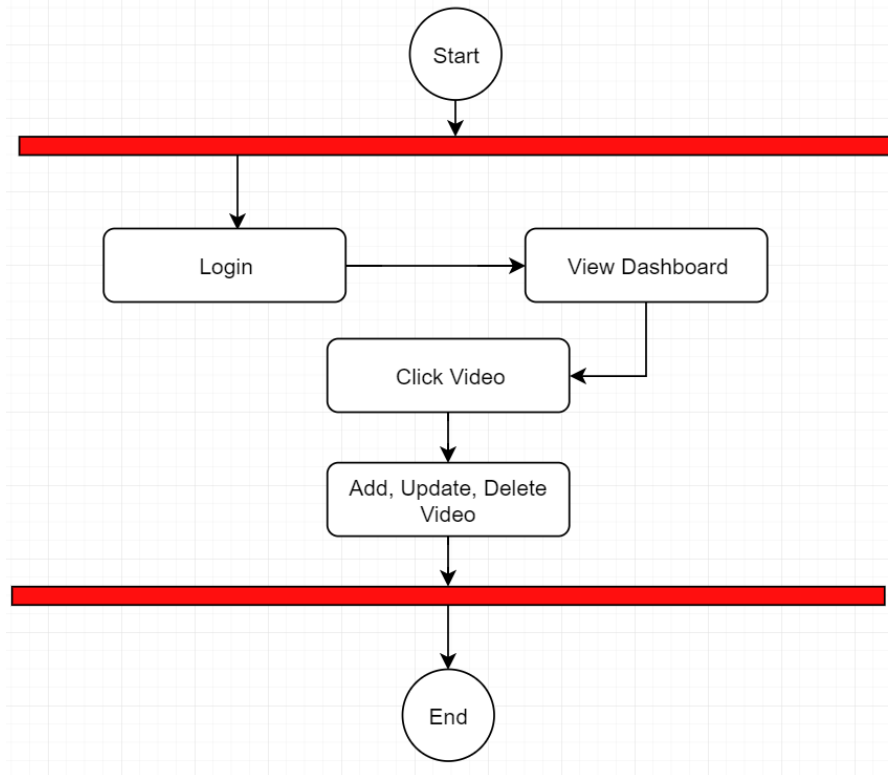

3.5 Activity Diagram for Admin:

3.5.1 Browse Site:

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3.5.2 Add, Delete, Update Event:

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                              │  Start  │
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    │    Login     │ ─────────────────▶ │  View Dashboard  │
    └──────────────┘                    └──────────────────┘
                                                 │
              ┌──────────────────┐               │
              │   Click Event    │ ◀─────────────┘
              └──────────────────┘
                       │
                       ▼
              ┌──────────────────┐
              │ Add, Update Delete│
              │      Events       │
              └──────────────────┘
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```
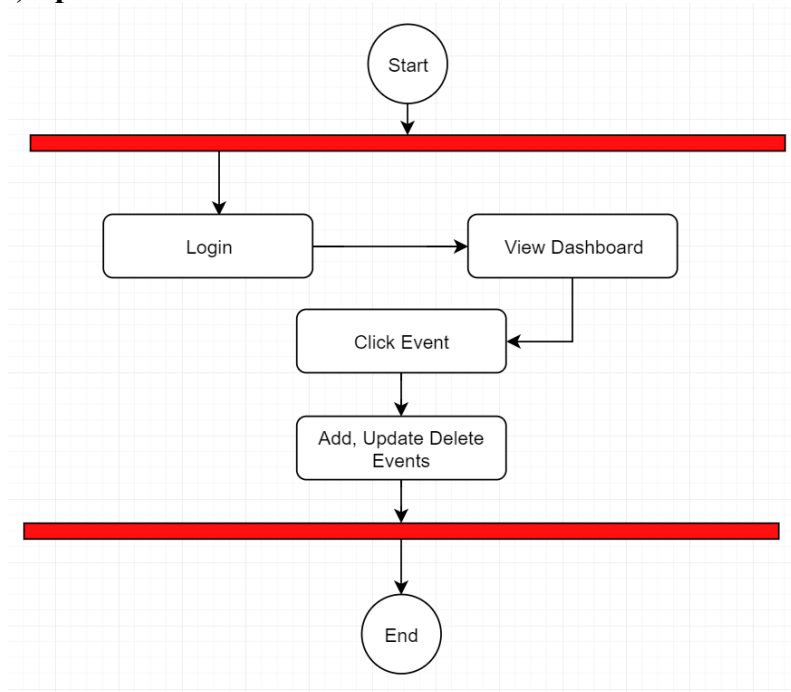
3.5.3 Add, Delete, Update Photo:

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                              │  Start  │
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    ████████████████████████████████████████████████████████
        │
        ▼
    ┌──────────────┐                    ┌──────────────────┐
    │    Login     │ ─────────────────▶ │  View Dashboard  │
    └──────────────┘                    └──────────────────┘
                                                 │
              ┌──────────────────┐               │
              │   Click Photo    │ ◀─────────────┘
              └──────────────────┘
                       │
                       ▼
              ┌──────────────────┐
              │ Add, Update, Delete│
              │       Photo        │
              └──────────────────┘
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    ████████████████████████████████████████████████████████
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                  ┌─────────┐
                  │   End   │
                  └─────────┘
```
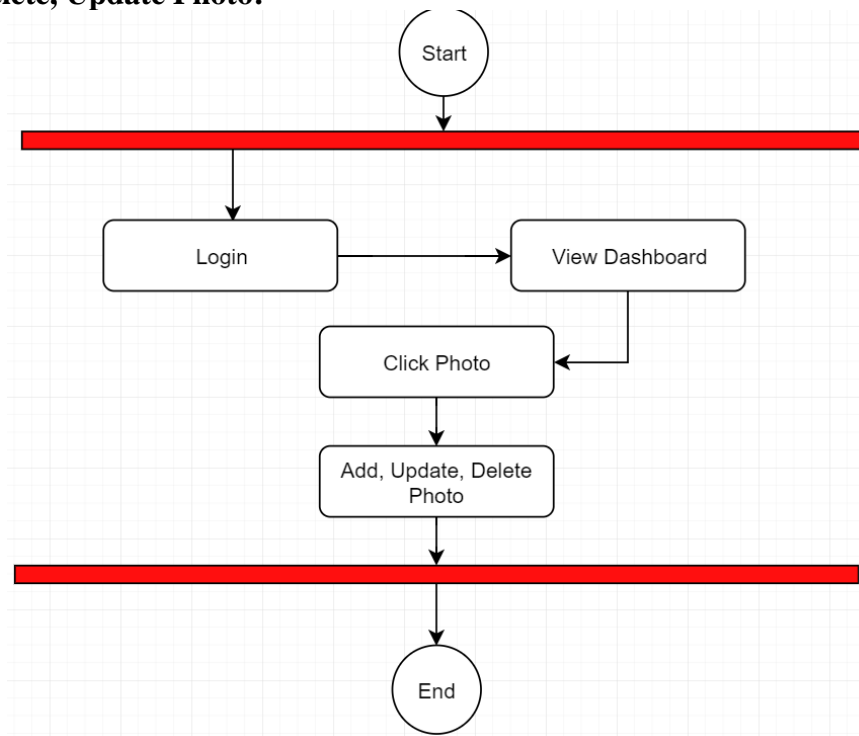
3.5.4 Add, Delete, Update Video:

Start

Login → View Dashboard

Click Video

Add, Update, Delete Video

End

3.5.5 Add, Delete, Update Notice:

Start

Login → View Dashboard

Click Notice

Add, Update, Delete Notice

End
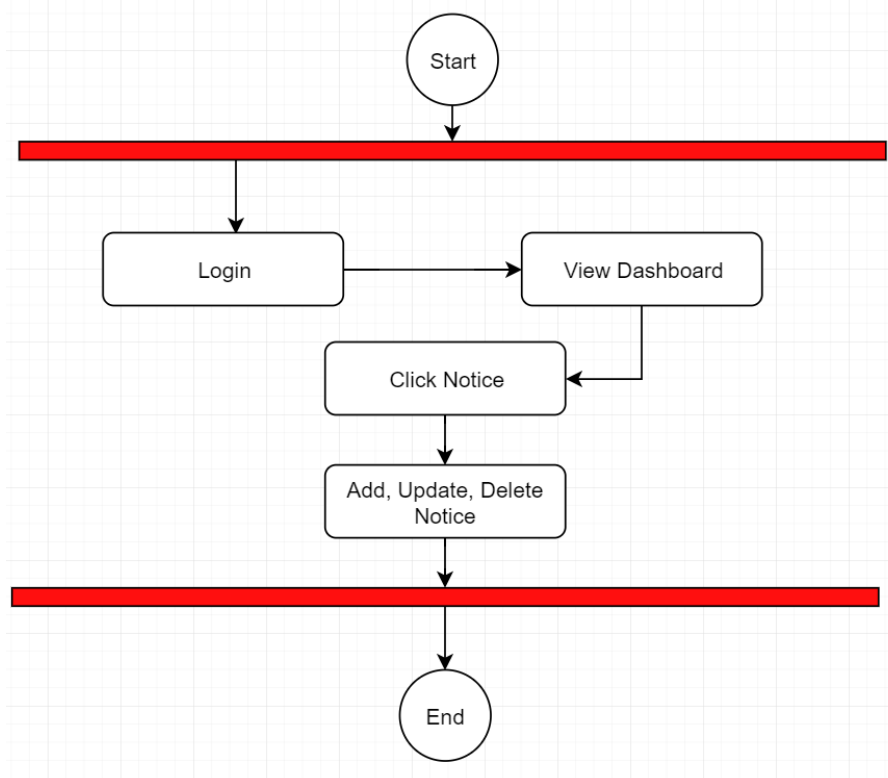
3.5.6 Add, Delete, Update E-Book:

```
                          Start

  ┌──────────────────────────────────────────┐
  └──────────────────────────────────────────┘

        Login  ──────────→  View Dashboard

              Click E-Book  ←──────

              Add, Update, Delete
                    E-Book

  ┌──────────────────────────────────────────┐
  └──────────────────────────────────────────┘

                          End
```
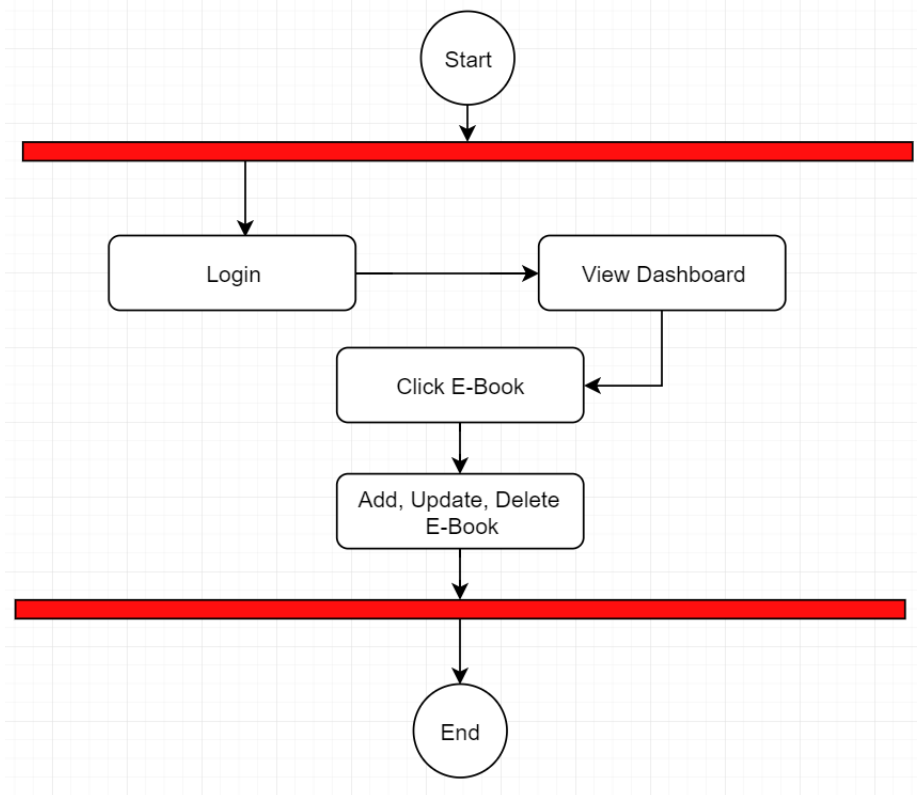
3.5.7 Add, Delete, Update Committee:

```
                          Start

  ┌──────────────────────────────────────────┐
  └──────────────────────────────────────────┘

        Login  ──────────→  View Dashboard

            Click Committee  ←──────

              Add, Update, Delete
                   Committee

  ┌──────────────────────────────────────────┐
  └──────────────────────────────────────────┘

                          End
```
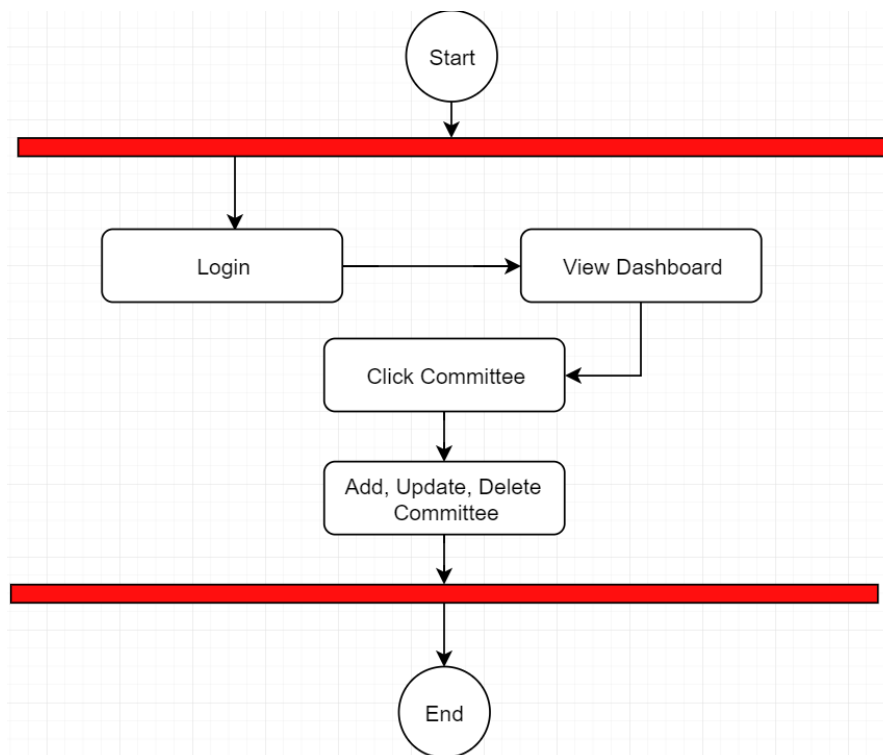
3.5.8 Add, Delete, Update Ramadan Calendar:

Start

Login → View Dashboard

Click Ramadan Calendar

Add, Update, Delete Ramadan Calendar

End
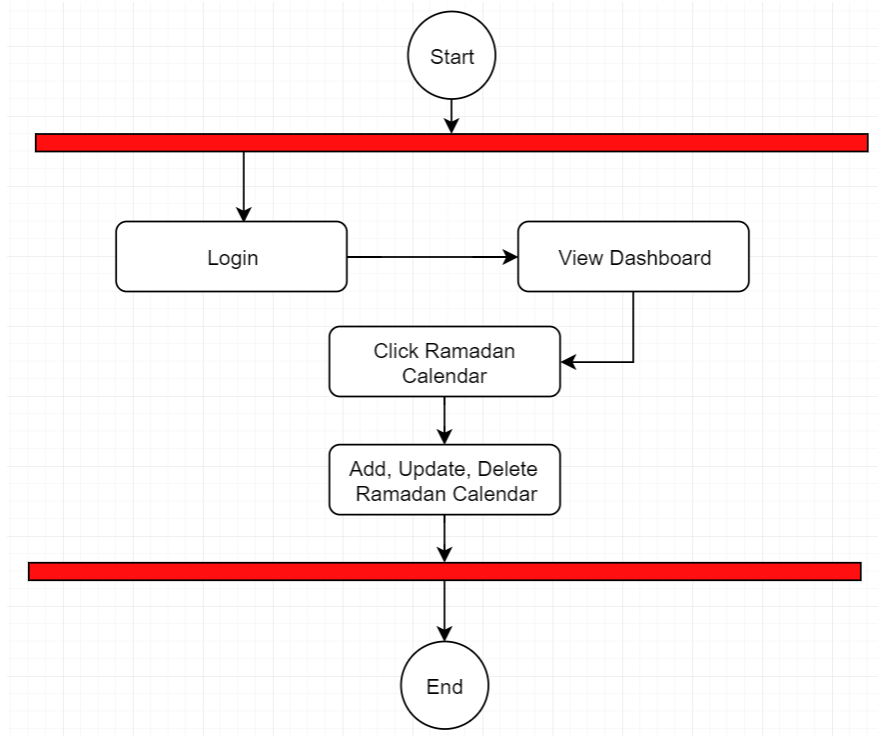
3.5.9 Add, Delete, Update Salat Time:

Start

Login → View Dashboard

Click Salat

Add, Update, Delete Salat Time

End
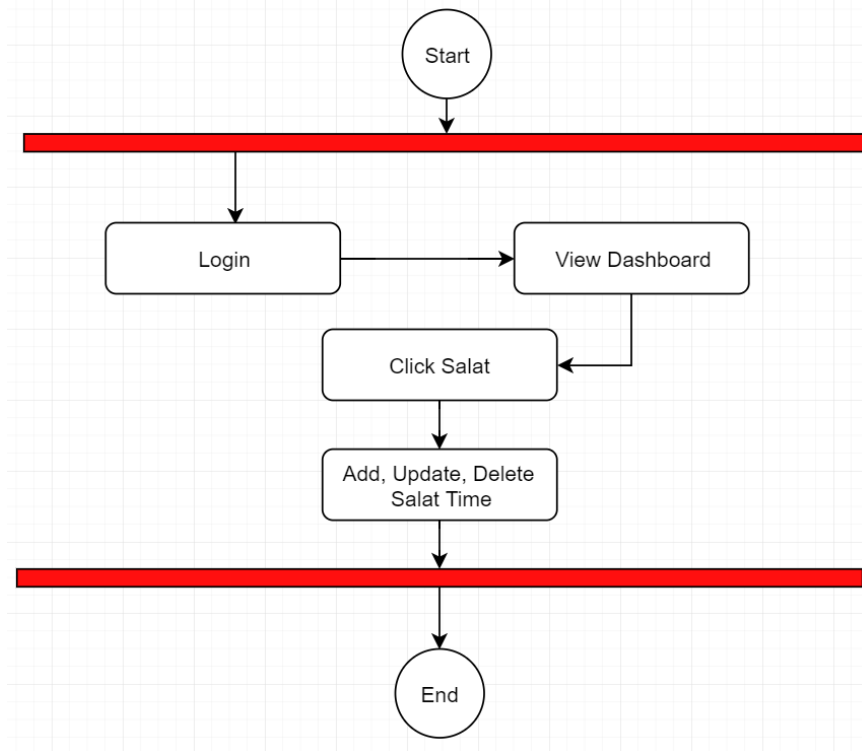
3.5.10 Answer FAQ:
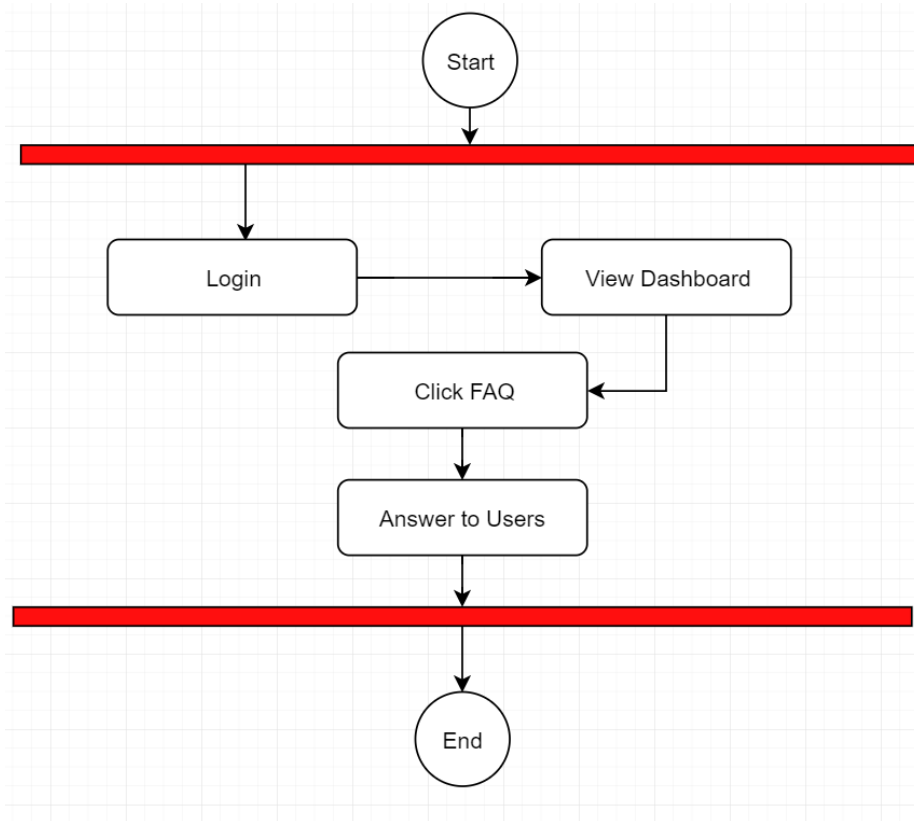
Chapter 4: Development Tool & Technology

4.1 User Interface Technology

I'm using these tools and technologies given below:

HTML is a markup language. It provides the structure of a website so that web browsers know what to show.

CSS is a Cascading Style Sheet. CSS let's web designers change colors, fonts, animations, and transitions on the web. They make the web look good.

Bootstrap is a UI (user interface) framework for building with HTML/CSS/JavaScript

Laravel is a free, open-source PHP web framework, created by Taylor Orwell and intended for the development of web applications following the model–view–controller architectural pattern and based on Symphony.

4.2 Implementation Tools & Platforms

I'm using PHP Strom.

Jet Brains PhpStorm is a commercial, cross-platform IDE for PHP built on Jet Brains' IntelliJ IDEA platform. PhpStorm provides an editor for PHP, HTML and JavaScript with on-the-fly code analysis, error prevention and automated refactoring's for PHP and JavaScript code.

Chapter 5: UI design

Home page for user:
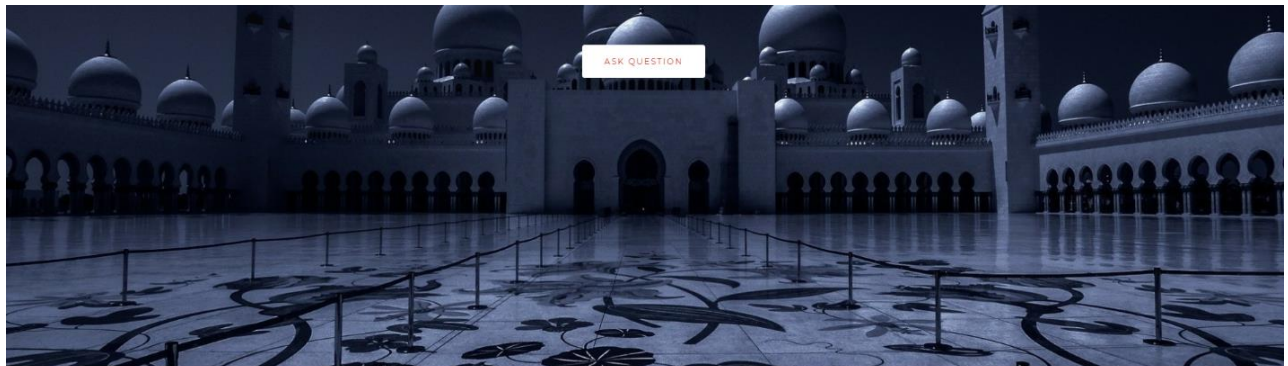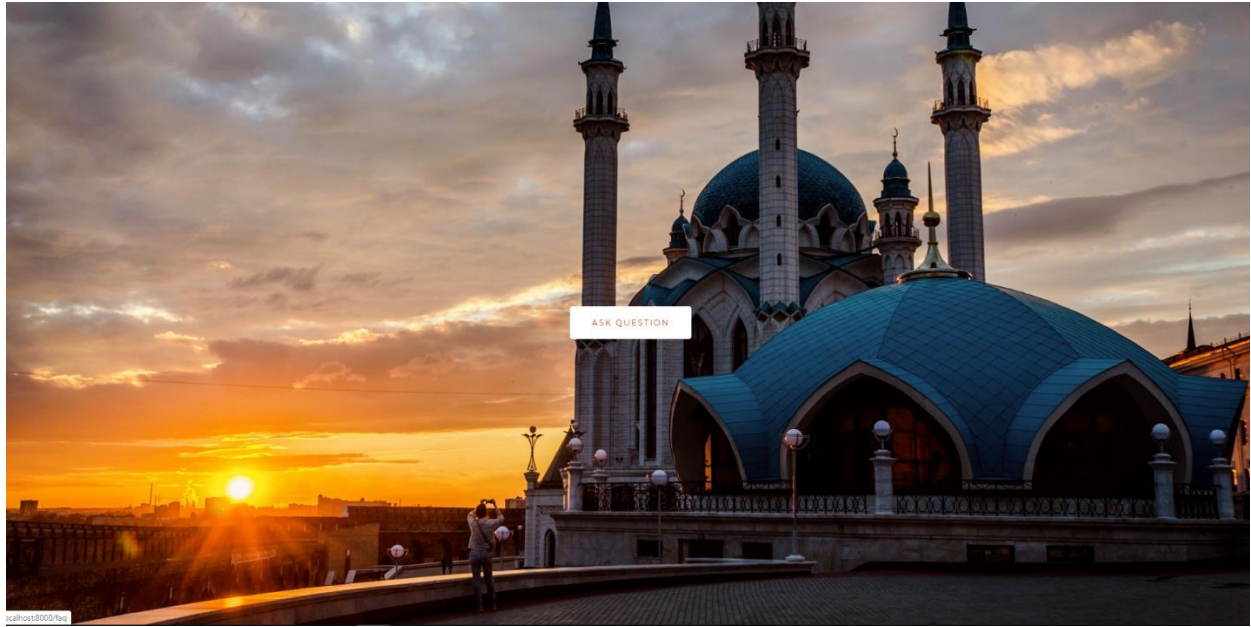
Mosque Regulation System   Mosque Committee   Notice Board   Money Transaction   Photo Gallery   Book Library   Video Gallery   Ramadan Calender   Salat Time

The Time Complexity Of Delivering M Messages That Come Within [DELTA]T' To Their Relevant Subscribers In Our Proposed Filter-Verification Framework With Inverted Index Pruning Technique Is [Mathematical Expression Not Reproducible], Where F Is The Fanout Of The TMR-Tree, [R.Sub.I] Is A Node In The TMR-Tree (Also Can Be Treated As A Dummy Message), And I.n Is The Inverted Index Associated With
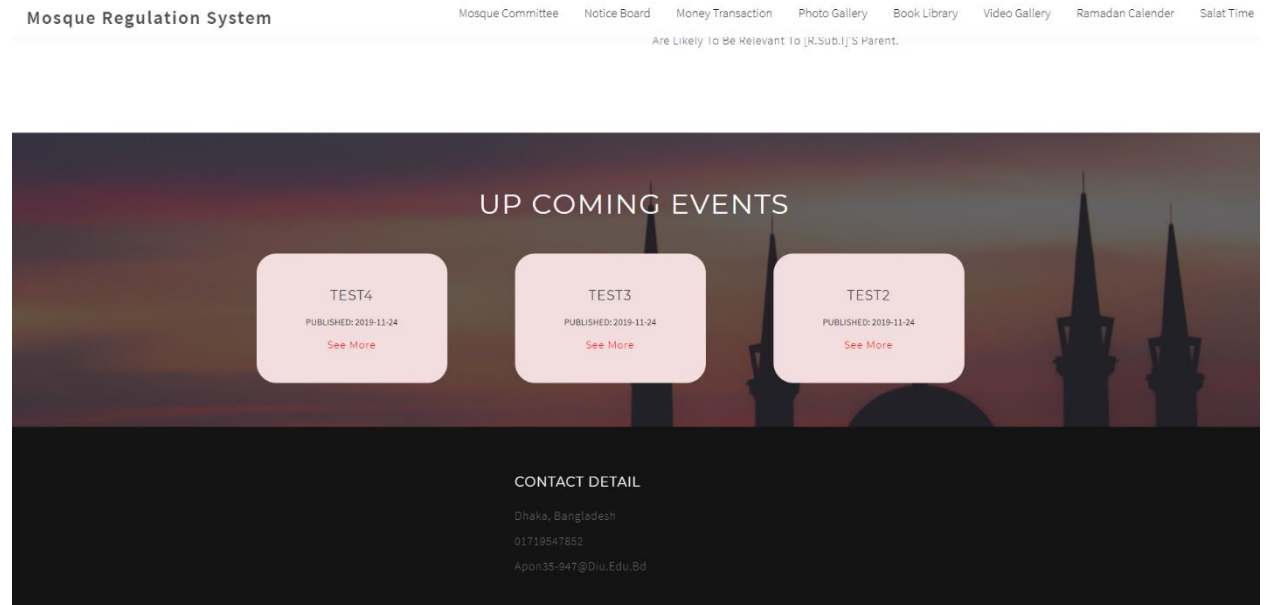
Event for user:

Photo for user:
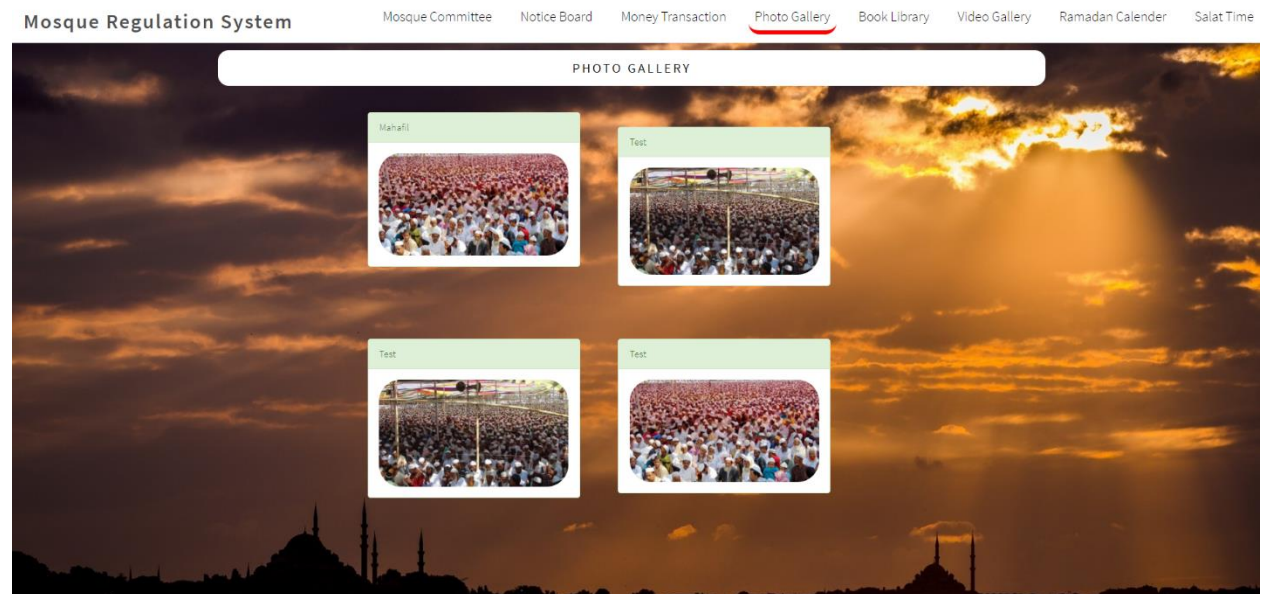
Video for user:

Notice for user:

E-Book for user:
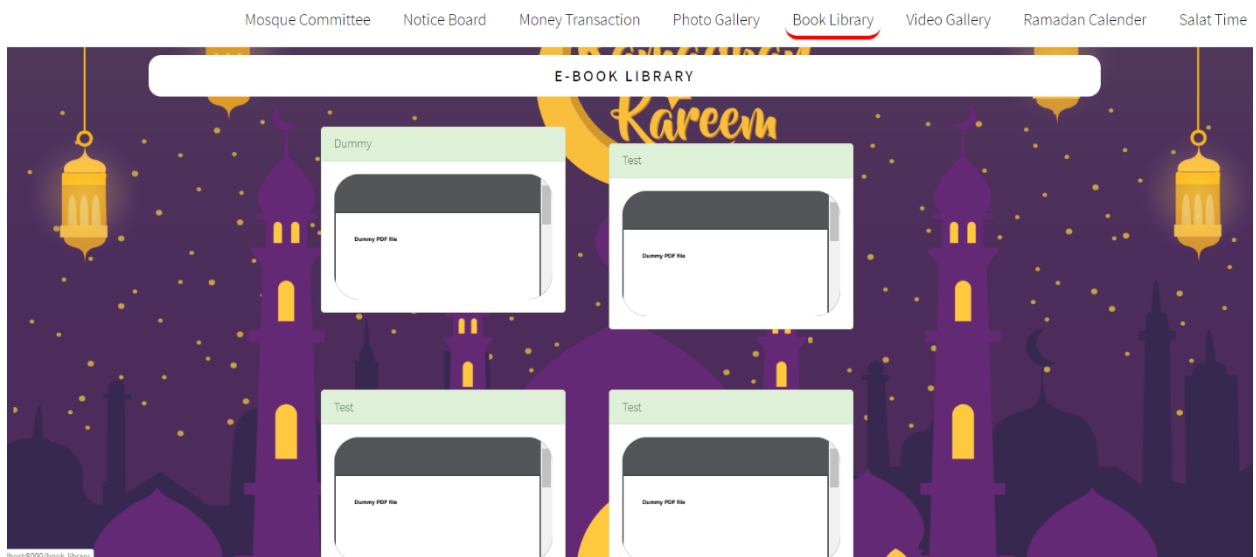
Committee for user:
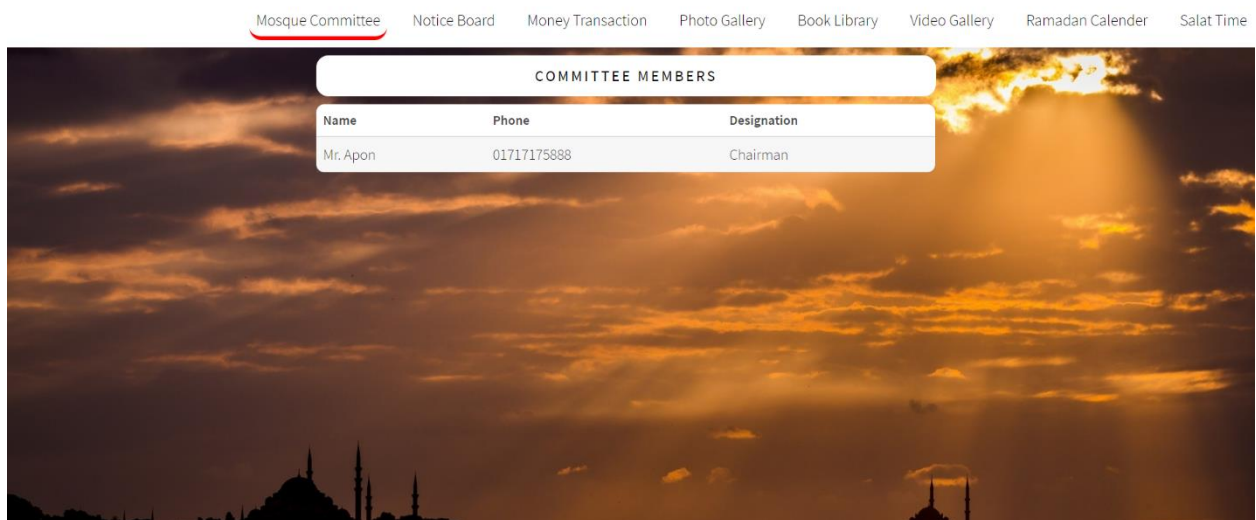
Ramadan Calendar for user:

Salat Time for user:

FAQ for user:

Mosque Regulation System

Mosque Committee   Notice Board   Money Transaction   Photo Gallery   Book Library   Video Gallery   Ramadan Calender   Salat Time

ASK A SOLUTION FOR A PROBLEM TO IMAM

2. Phone:

3. Email:

4. Problem Statement:

Submit

Dashboard for Admin:

Apon

Visit Site

Slide Show Img

Imam Formal Message

Event

Committee

Notice Board

Money Transaction

Photo Gallery

Book Library

Video Gallery

Ramadan Calender

Salat Time

Question

Logout

Add Slide Shows Form

Choose a image:

Choose File No file chosen

Submit

Slides:

Delete   Delete   Delete   Delete

Chapter 6: System Testing

Test Case no-1:

Test case #1			Test case name: User Panel	
System: Mosque Regulation System			**Subsystem:** N/A	
Design by: Abir Hasan Apon			**Design date:** 20-Oct -2019	
Executed by: Abir Hasan Apon			**Executed date:** 18-Nov -2019	
Short description: Target of this case is user can able to do all of tasks of every features without any failure.				
Precondition: For customer have no any precondition				
Step	**Action**	**Response**	**Pass/Fail**	**Comment**
1	All data is provided	Application push result section to customer	Pass	
Post Condition: N/A				

Test Case no-2:

Test case #2			Test case name: Admin Panel	
System: Mosque Regulation System			**Subsystem:** N/A	
Design by: Abir Hasan Apon			**Design date:** 20-Nov -2019	
Executed by: Abir Hasan Apon			**Executed date:** 30-Nov -2019	
Short description: Target of this case is admin can able to add, update, delete all of tasks of every features without any failure.				
Precondition: For admin have no logged in				
Step	**Action**	**Response**	**Pass/Fail**	**Comment**
1	All data is provided	Application push result section to customer	Pass	
Post Condition: N/A				

Chapter 7: Project Summery

7.1 References:

. libguides.murdoch.edu.au

. researchgate.net

7.2 GitHub Link: https://github.com/apon79

7.2 Future Scope: In future we develop:

- Live video streaming.

- Add Donation System with international and local banking.

- This app will be more user friendly. We will make single page app.