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**COMSATS University Islamabad (CUI)**

Project Proposal  
(SCOPE DOCUMENT)

for

**PAIGHAM**   
Version 1.0

***By***

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**SCOPE DOCUMENT REVSION HISTORY**

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**Project Category:**

* **B – Web Application/Web Application based Information System**
* **E - Smartphone Application**

# 

# Abstract

**“Paigham”** will be a community based mobile application with a web-based admin panel. It will show multiple Mosques on Google maps of the targeted community. There will be a User-signup/login and an Imam signup/login in Mobile Application. Each Imam will be the admin of his Mosque where he can edit Mosque’s Information.

Each Mosque icon will further show its portfolio consisting of Mosque name, further details including specific mosques’ timings with their Imam’s profile. Furthermore, the user will be able to check Imam’s profile. It will show Imam’s portfolio and his activities on his profile feed and a chat system through which the user can ask their queries regarding Islamic matters. There will be a non-interactive feed where Imam will be able to share content like khutbahs or some announcements such as a Funeral news, Dates for Islamic events etc. Users can like and save the post but will not be allowed to comment. There will be randomized content stored in the background of the feed such as quotations and Duas which will be displayed randomly. Furthermore, there will be other features such as Audio recitation of Qur’an with translation, 99 Names with translation, Duas, Islamic calendar, Qibla direction and a Tasbih counter. Users can search their desired Mosque, Imam and other users as well.

# Introduction

**“Paigham”** will give a sense of unity in a community-based living. Users will be informed about Islamic/general announcements through feed. There will be an admin check by the Community Heads to ensure the purpose of this app. Paigham will provide uniformity in Islamic Festivities as well. Also, in times of Covid’19 where it is not possible to go door to door, it will be easier for Imams to promote the Message of our Creator through their Khutbahs, motivational Islamic videos and Islamic history incidences. People can put up their queries to Imams regarding Islamic matters. Paigham application will be beneficial for people who will be new to the targeted area can check for Mosques’ timings and proceed to them through maps, which will help a lot in case of Jumma prayers. Users can recite/listen to Qur’an through text and audio. They can read its translation as well. Also, users can recite Duas through Paigham app, can have a handy tasbih counter and check for Islamic dates through Islamic Calendar. As we are a generation of smartphones now, Paigham app will promote unity, love, and Islamic knowledge.

# Problem Statement

In modern times, we have lost the sense of community-based unity. Also, there is a communication barrier between people and Imams. People cannot approach them due to multiple factors in case of queries. There is a lot of irregularity and confusion in Islamic announcements for example there is a funeral, many people do not know the address, timing, and other details. Or the details are served to them as Chinese whisper which results in disinformation. Same is the case with Eid prayer timings. Also, people usually do not recite Qur’an/Tasbih when they are not at home. Furthermore, Imams cannot go door to door in times like Covid’19. People do not know Mosque information if they are in a new area. Applications like ‘Islam World’, ‘Islam 360’ and ‘Muslim pro’ are available but with limited functionality as they do not provide the feed feature and the ‘Imam-User interaction.'

# Problem Solution for the Proposed System

**“Paigham**” will be a mobile-based application with a web-based admin panel to ensure no irregularity against the community rules and regulations. It will bind the society together and break the barrier between Imams and people providing a sense of love in between them. Users will be able to ask queries from their desired Imam. There will be uniformity in Islamic Announcements and people will check the feed to see if there is a news for today, which will be authentic. They can check for Prayer timings and Mosque locations if they are new in the area. There will be a handy Qur’an and tasbih counter with them all the time. Imam will be able to guide people to light through their mobile phones which are a necessity, and everyone has it with themselves. It provides a feed feature and ‘Imam-User’ interaction which other apps don’t.

# Related System Analysis/Literature Review

These are the related systems based on the similarity in comparison to “**Paigham”** App:

Table 1: Related System Analysis with Targeted Project Solution.

|  |  |  |
| --- | --- | --- |
| **Application Name** | **Weakness** | **Proposed Project Solution** |
| * Islam World | * Provides limited features as feed is not included. | * Paigham will have a feed for Islamic Content provided by Imams. |
| * MuslimPro | * No interaction between Imam and people. People cannot ask queries. * Timings cannot be governed by admin. | * Paigham app will provide a chat system for queries. * Each Imam will be the admin & can govern timings |
| * Islam 360 | * No Imam-user interaction. | * Paigham app will provide a chat feature for users to ask their queries from Imam |

# Advantages/Benefits of Proposed System

The advantages of “**Paigham”** app will be:

* A better sense of community-based living will prevail.
* There will be an admin check so all activities will be according to community rules and regulations.
* People can contact Imams for queries regarding Islamic matters.
* People can get to know about Islamic/general announcements from Imams themselves.
* There will be a handy Qur’an and Tasbih counter in their mobile to motivate them to recite.

# Project Scope

**“Paigham”** will aim at providing a centralized system for Imam-user interaction, Islamic/general announcements etc. And to provide prayer timings of the Mosque governed by the Imam. There will be 3 types of users in this system. They will be:

* **User**  
  User will log in to the app (fingerprint optional) and can check for Mosques, Imams etc. User can ask Imams their queries and check content posted on the feed. User can like and save them. User will also be able to change the theme of the app. Features like Qur’an audio recitation, Duas, Tasbih counter and Islamic Calendar will be available to user.
* **Imam**

Imam will log in to the app (fingerprint optional). Each Imam will be the Admin of his own mosque and will be able to change the prayer timings. Imam can post content regarding Islam. Imam can make announcements regarding prayer timings of Jumma/Eid or regarding funerals. Features like Qur’an audio recitation, Duas, Tasbih counter and Islamic Calendar will be available to Imam.

* **Admin (Community Head)**

The Head of the Community will have the web-based admin access of this system. Admin will monitor and keep a check on the activities of Imam and User. If new Imam registers, Imam will be approved by the Admin and then appointed to the respective Mosque.

## Module 1: Profiling

There will be two types of users who will access “**Paigham”** app. Namely:

### User Profiling

User can login/sign up to app through username/password. Fingerprint will be an optional login feature for users having fingerprint sensor in their smartphones. User can check for Mosques on the Map and locate their desired Mosque from there. Timings of specific Mosques will also be there along with Imam’s portfolio. User will be displayed Imam’s feed as well where he will be able to only like/save content uploaded by Imam and ask him for queries through chat. Multiple Islamic features will be available to the user.

### Imam Profiling

Imam can login/sign up through username/password. Fingerprint will be an optional login feature for users having fingerprint sensor in their smartphones. Each Imam will be the admin of his Mosque where he will be able to update prayer timings. Imam will be able to upload content on feed and interact with users through chat. Multiple Islamic features will be available to the user.

## Module 2: Google Maps

Maps will be on the main page of app where multiple Mosques will be displayed. Each Mosque on the map will further show its portfolio on clicking. User can locate Mosques through maps.

## Module 3: Feed

There will be a non-interactive feed with randomized content being displayed in the background. Imam can upload content on the feed whereas user will only be allowed to like and save. Imam will upload content like Islamic videos, Khutbahs, Duas etc. Also, general announcements like Funeral new, Eid prayer timings etc. will also be made through Feed.

## Module 4: Searching

User can search for their desired Mosque or Imam through a search tab. It will be a user-friendly feature and will direct the user according to their search terms. User can also search other users as well.

## Module 5: Islamic Features

Multiple Islamic features like Qur’an, Duas, Tasbih, Islamic calendar and Qibla will be available to both Imam and user. These features will be available at the main page of the app through a button.

### Qur’an

Complete Qur’an will be available for User/Imam to recite whenever they want. They can recite while travelling as well or when they are not at home.

### Duas

Duas will be available for users so they can recite them. This feature will be helpful in case of travelling etc.

### Islamic Calender

Islamic Calendar will be available with all the Islamic events mentioned. This feature will help keeping track of the Islamic festivities and events.

### Tasbih Counter

A handy Tasbih counter will always be there with us wherever we are. So people can recite verses, duas etc. and keep a track through the counter.

### Qibla Direction

User/Imam can check the Qibla anywhere and anytime in case they are in a new place. This feature will help in the daily prayers.

## Module 6: Audio Recitation

Audio recitation of the Holy Qur’an will be available to User and Imam both. They will be able to listen to Qur’an by clicking on the desired Surah.

## Module 7: Chat

User can contact Imam through a user-friendly chat system. User can ask queries from Imam regarding Islamic matters and Imam can answer them. Also, user can search other users and start a conversation with them. This will help to break the barrier between Imam and user as interaction will be strong. Users will have their queries answered as well.

## Module 8: Admin Panel (Web-based)

A web-based admin panel will be there to keep an admin check on the activities of the app. The community heads will have access to admin login of Paigham app where they can approve/remove Imam when they register to be the Imam of Mosque. Admin will also monitor the working of Paigham app to ensure everything is according to the community rules and regulations. It will prevent sectarianism and extremism.

# System Limitations/Constraints

Some of the Limitations/Constraints in the app will be:

* Paigham app will be initially available in Bahria Town only (Community Based).
* Paigham app does not provide search through voice-speech.
* Paigham app will initially be available on only Android and not on iOS.
* Internet will be essential for Paigham’s working.

# Software Process Methodology

* We will use **Incremental** **software process methodology** as it allows flexibility and is easier to implement. It is less costly as well in comparison to prototyping, V-shape or any other methodology. No critical level testing will be needed so Incremental Process Methodology will be optimal. Also, we will work in milestones as risk management is easier.
* We will use **Object-oriented design methodology** for the development of this app. App will be implemented using Object-Oriented approach. Also, the advantage is that it encourages the reusability of software components. The motivation behind this design methodology is to cater future updates and changes as they are easy to manage due to a maintained structure.

# Tools and Technologies

Major tools and technologies used in the design and development of Paigham App are:

Table 2: Tools and Technologies for the Targeted Project.

|  |  |  |  |
| --- | --- | --- | --- |
| **Tools**  **And**  **Technologies** | **Tools** | **Version** | **Rationale** |
| MS Visual Studio | 2020 | IDE |
| Android Studio | 4.1.2 | IDE |
| MongoDB GUI | 4.2 | DBMS |
| Adobe XD | XD36 - 2021 | Mockups |
| MS Word | 2016 | Documentation |
| MS Power Point | 2016 | Presentation |
| Postman | 7.36.1 | Backend API |
| **Technology** | **Version** | **Rationale** |
| Dart | 2.10.4 | Programming language |
| MongoDB | 4.2 | Database |
| ReactJs | 17.0 | Web Frontend |
| NodeJS | 14.15.4 | Backend |
| ExpressJs | 4.17.1 | Backend Framework |

# Project Stakeholders and Roles

The below mentioned are the stakeholders of the proposed app named as **Paigham**:

Table 3: Project Stakeholders for the Targeted Project.

|  |  |
| --- | --- |
| **Project Sponsor** | COMSATS University, Islamabad Campus. |
| **Stakeholder** | The stakeholders of the proposed system are:   * Syed Taha Zahir Bokhari (Group member) * Wamiq Waheed Memon (Group member) * Dr. Adeel Anjum (Project Supervisor) * People of community * Imams * Community Heads * Final Year Project Committee |

# Team Members Individual Tasks/Work Division

Task division among our group has been done accordingly:

Table 4: Team Member Work Division the Targeted Project.

|  |  |  |
| --- | --- | --- |
| **Student Name** | **Student Registration Number** | **Responsibility/ Modules** |
| * **Syed Taha Zahir Bokhari** | * **SP18-BCS-157** | * **Modules 1,3,4,7** * **Front-end & Back-end (Mobile App & Web App)** * **Database for Mobile App & Web App** |
| * **Wamiq Waheed Memon** | * **SP18-BCS-171** | * **Modules 2,5,6,8** * **Front-end & Back-end (Mobile App & Web App)** * **APIs** |

# Data Gathering Approach

To develop “**Paigham”** App, we gathered data by opting these approaches:

* **Brainstorming:** We brainstormed on the idea of making a community based Islamic app to promote the unity and Islam. After critical thinking, we thought to put up this idea to our FYP supervisor.
* **Discussion:** We discussed the project idea of Paigham app with our supervisor, and he asked for some modifications and provided some ideas for it be community-based, increased functionality etc.
* **Physical Interview:** To get information about Imams and make their portfolio, we interviewed them and requested their information with their consent. We also informed them about this project idea which was highly appreciated by them.
* **Observation:** We observed that there is a need of such centralized system that binds a community together. We hunted for a related system but couldn’t exactly find one. So, we decided to think on it.

# Concepts

The following concepts have been used in developing the “**Paigham**” App:

* **Concept-1: Web Development**

Our Admin panel will be a web-based site that will be reserved for the Community Heads. Front-end and Back-end will be developed using React Js, Node Js, Express Js. It will be showed on a local server.

* **Concept-2: Mobile Application Development**

Our major part of the project is a mobile-based application. Paigham is a smartphone application that will allow multiple features for the users with a friendly UI. It will be a Flutter based application coded in Dart Programming Language.

* **Concept-3: Database**

Database is the most vital concept of any project as record-keeping is essential to every application let it be web-based or mobile-based. Database which will be used for both Mobile App and Web app will be **“MongoDB”**. It will keep record of all the Mosques, Imams, Users information, Imams information, etc. The data in the Database will be in organized form so the access is easier for changes or updates.

* **Concept-4 API Data**

We will use Google API to locate Mosques on Maps. Also, audio APIs will be used for Qur’an recitation.

* **Concept-5 Fingerprint Initialization**

There will be fingerprint login available as well. This Flutter plugin provides means to perform local, on-device authentication of the user. This means referring the fingerprint APIs on Android (introduced in Android 6.0).

# Gantt chart

The Gantt Chart of our Paigham App’s flow is:

Figure 1: Gantt Chart

Chart, timeline, box and whisker chart

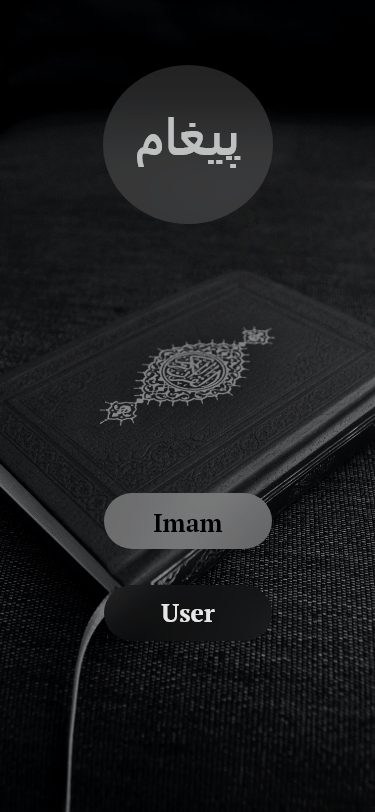
Description automatically generated

# Mockups

The Mockups of our application are as follows:

* **Mobile Application**

Figure : Landing Page



* + **Imam Interface**

Figure : Imam First Page

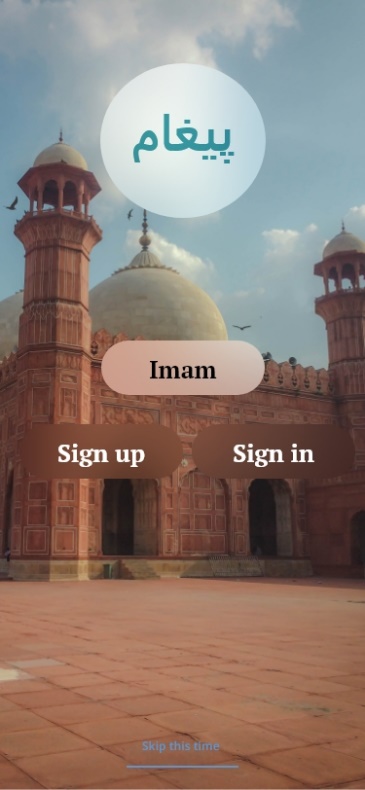


Figure : Imam Sign up

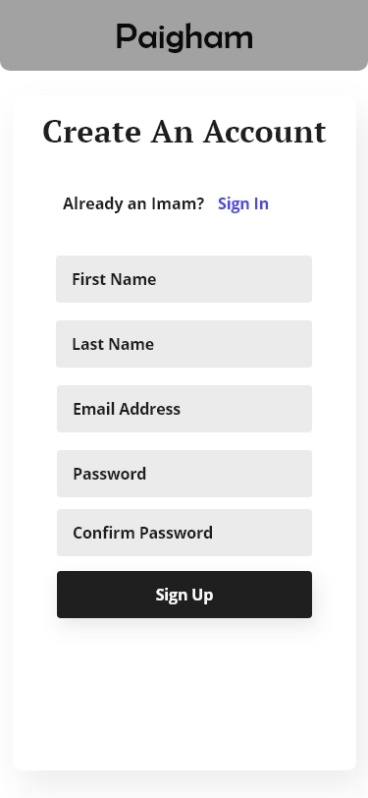


Figure : Imam Sign in

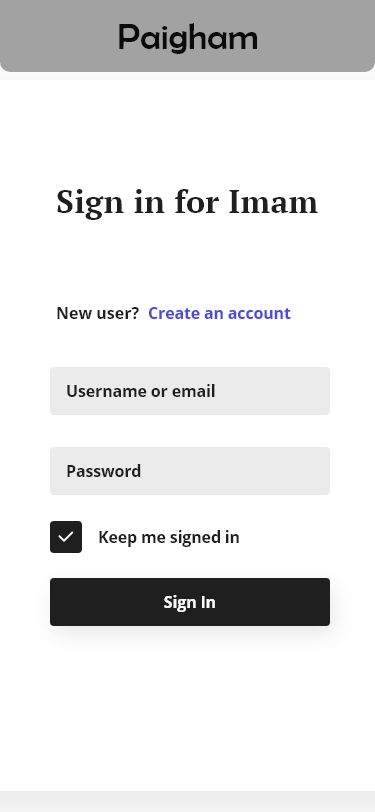


Figure : Imam Feed Page

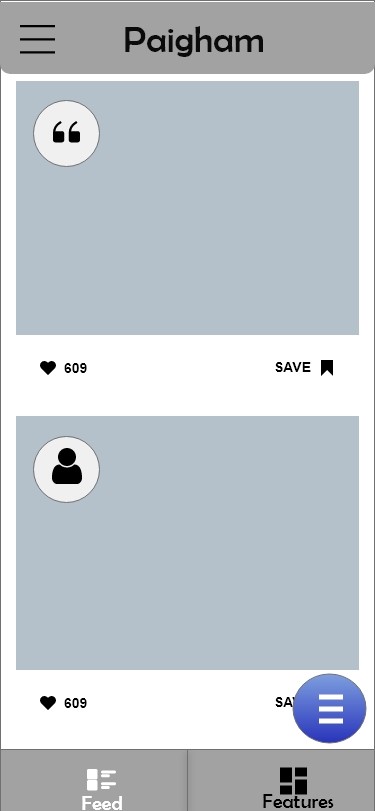


Figure : Imam Drawer

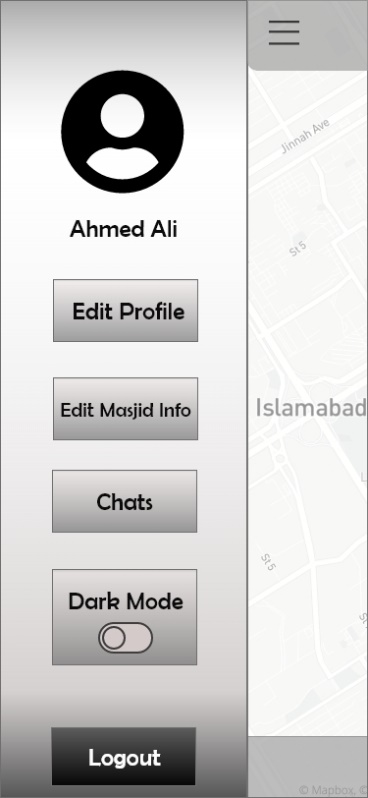


Figure : Imam Edit Profile

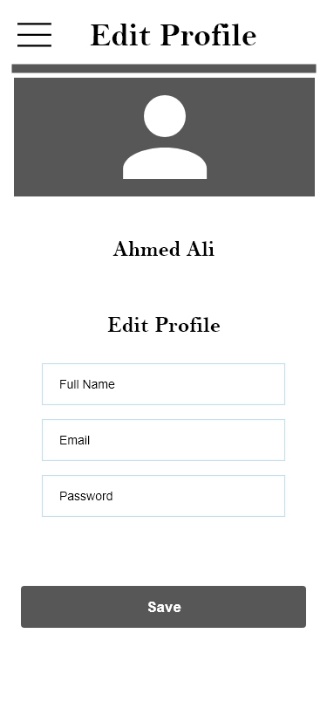


Figure : Mosque Info

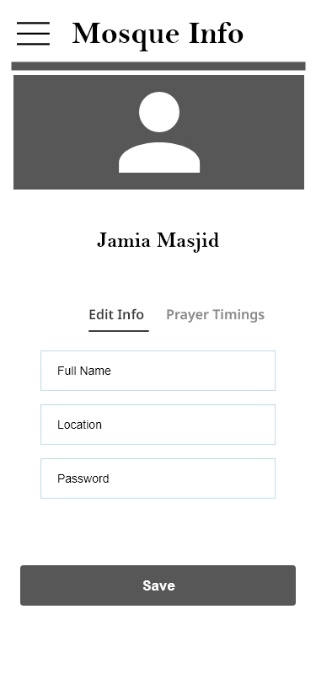


Figure : Mosque Prayer Timings

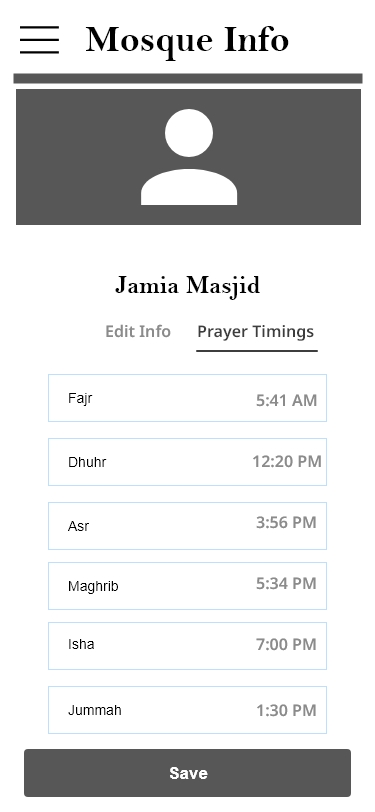
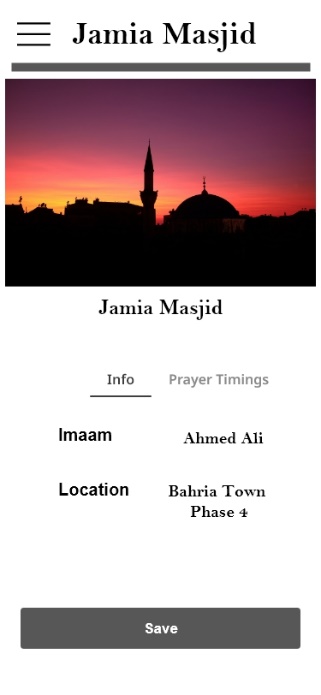


Figure : Mosque Landing Page



* + **User Interface**

Figure : User First Page

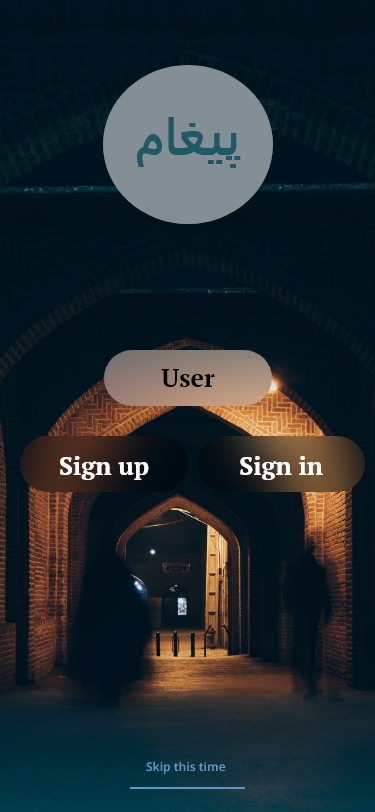


Figure : User Sign up

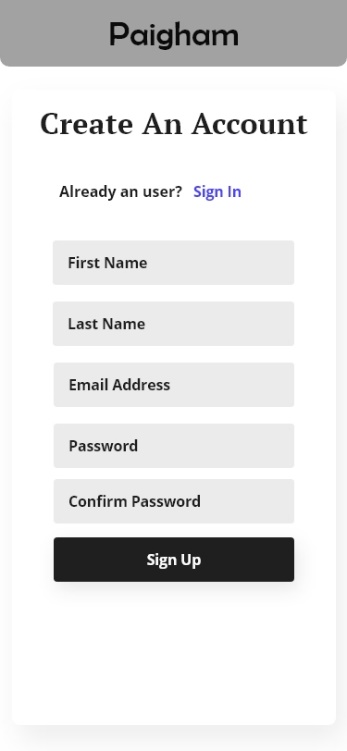


Figure : Imam Sign in

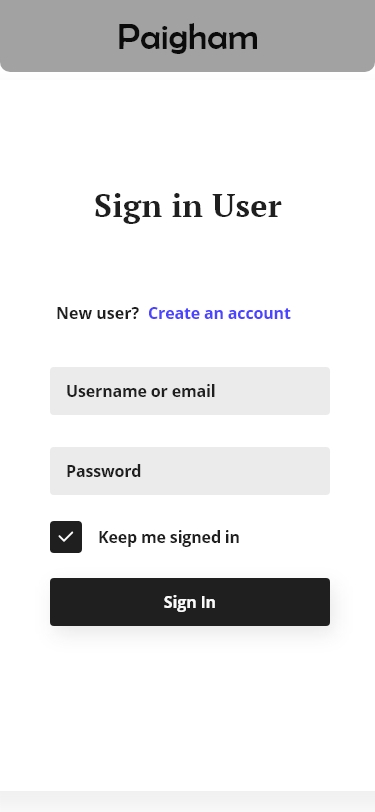


Figure : User Maps Page



Figure : User Floating Options



Figure : User Drawer

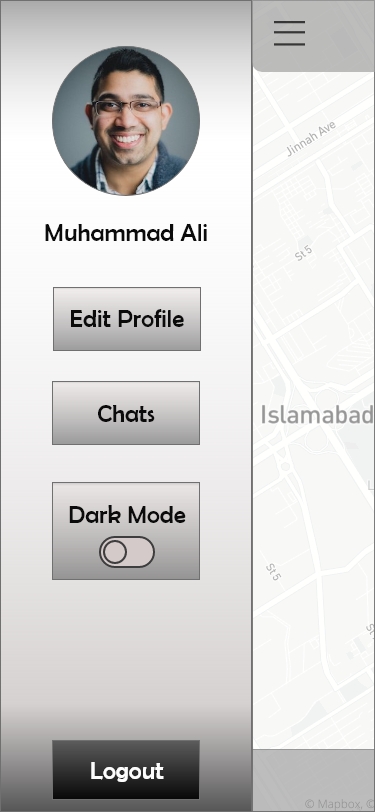


Figure : User Feed

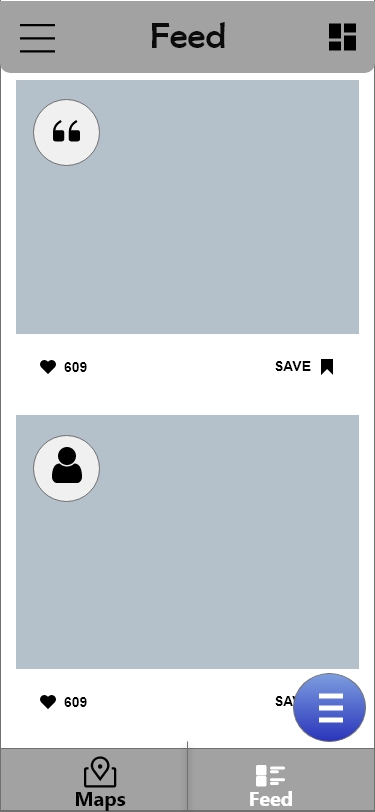
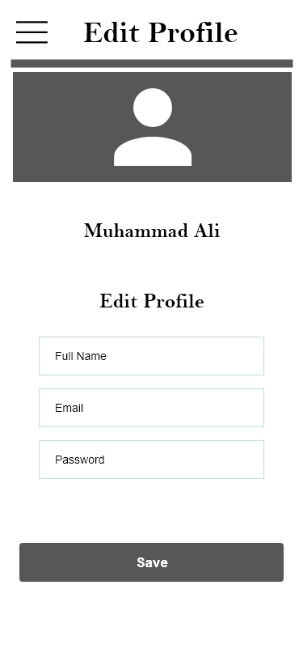


Figure : User Edit Profile



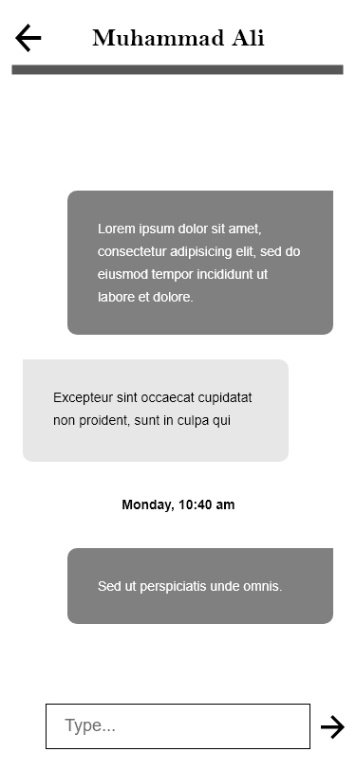
* + **Same Features in both interfaces**
    - **Searching**

Figure : Searching



* + - **Chat**

Figure : Chat



* + - **Features**

Figure : Features Main Page

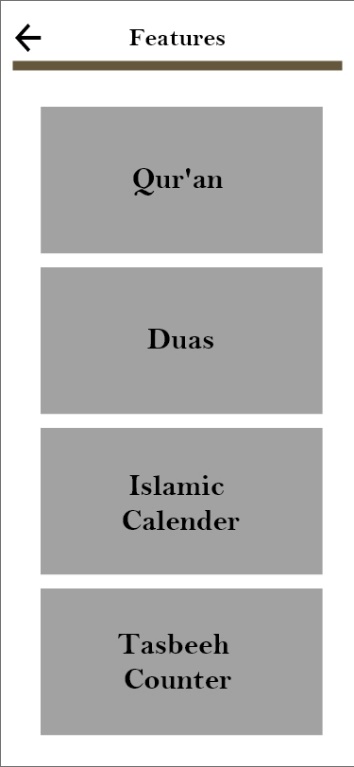


Figure : Qu'ran Surahs

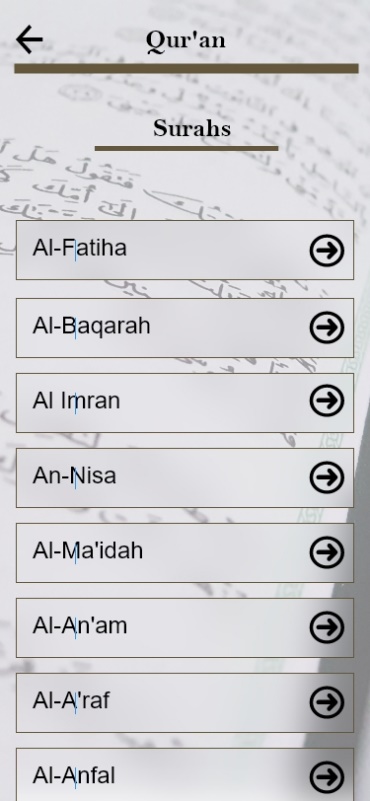


Figure : Dua

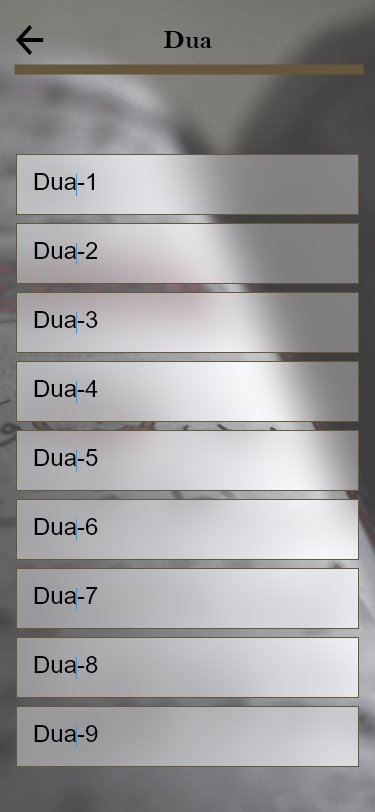


Figure : Islamic Calender

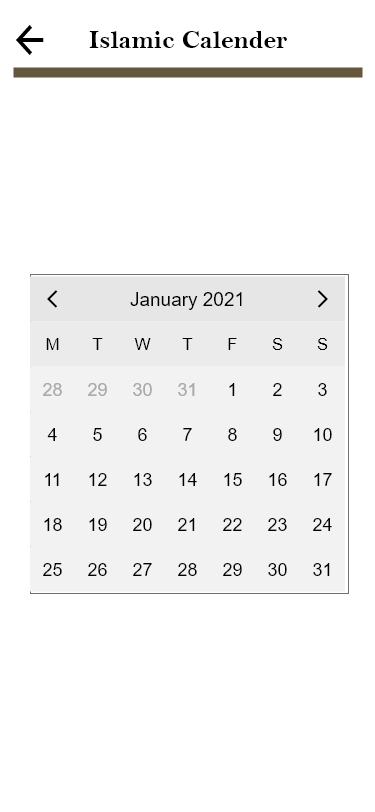
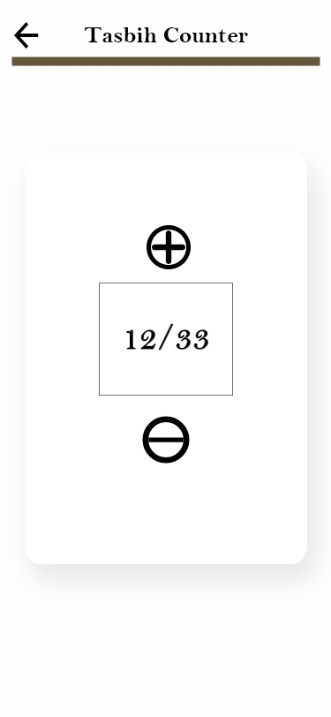
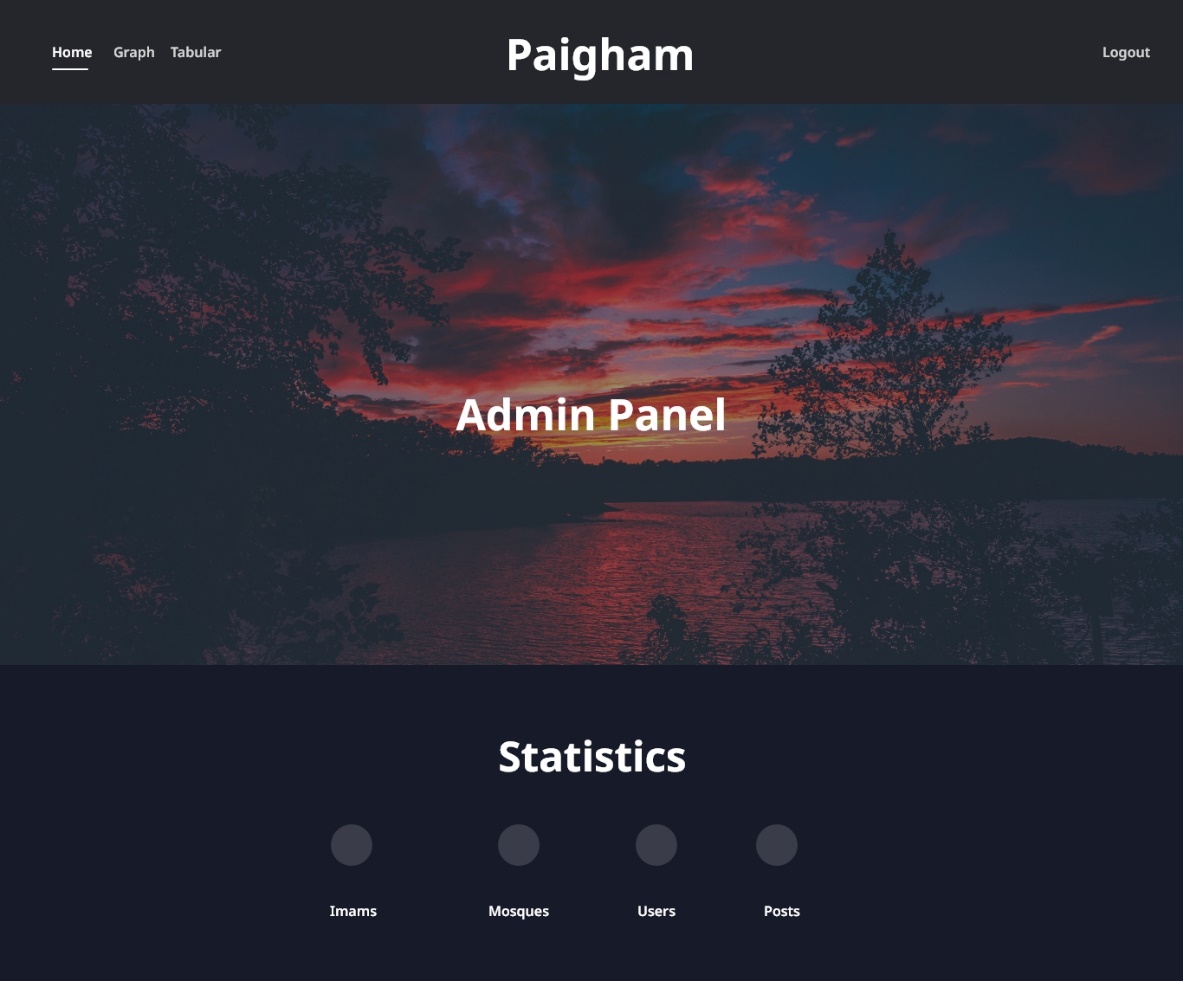


Figure : Tasbih Counter



* **WEB Admin Panel**

Figure 27: WEB Admin Panel



# Conclusion

Paigham app aims at bringing people together and spreading the sense of love. To facilitate them as much as we can. Also, to facilitate people which are new to a place so they can find information regarding Mosques and break the barrier between Imams and people. We also aim at providing people Qur’an, Duas, Tasbih all just a touch away from them so they get in-touch with these things frequently.

# References

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* <https://play.google.com/store/apps/details?id=com.bitsmedia.android.muslimpro&hl=en&gl=US>
* <https://play.google.com/store/apps/details?id=com.jazz.islam.world&hl=en&gl=US>
* <https://play.google.com/store/search?q=islam%20360&c=apps&hl=en&gl=US>

# Plagiarism Report

![Graphical user interface, application

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDyRXhpZgAATU0AKgAAAAgABAE7AAIAAAANAAAISodpAAQAAAABAAAIWJydAAEAAAAaAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFRhaGEgQnVraGFyaQAAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzIwAACSkgACAAAAAzIwAADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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