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**COMSATS University Islamabad (CUI)**

Software Requirement Specification  
(SRS DOCUMENT)

for

**PAIGHAM**   
Version 1.0

***By***

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*Bachelor of Science in Computer Science (2018-2022)*

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Date** | **Reason for Changes** | **Version** |
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Application Evaluation History

|  |  |
| --- | --- |
| **Comments (by committee)**  **\*include the ones given at scope time both in doc and presentation** | **Action Taken** |
| Simple MIS | Discussed the idea with committee after comments to clarify the thought & working behind the application. |
| Work effort is not of a year | Functionality increased with 2 core modules. |
| Students will not be able to defend at later stages | Discussed the idea with committee after comments to clarify the idea. **(As suggested by supervisor)** |
| Mobile phone usage to the target audience is a question mark? | Mobile phone usage among Imams and Religious individuals is quite common now. |
| Testing will not be doable | Testing will be done through dummy data as critical level testing is not required in the process. |
| Data acquisition requires more effort than actual implementation. | Keeping it community-based initially will make data acquisition easier. Also, Paigham will be a model app based on communities. |
| An improvement is to add an alternate and that is if the community based living is to be targeted for improvements, then it should not be bounded by religion and Imams of the masjid only, but it must also have other ways to connect people , in which it will be more of a social app like Facebook. | Social application will be difficult to defend at later stages as there are multiple related systems like social applications. **(As suggested by supervisor)**  But we have made the Feed open for the users to post as well, however, commenting is still off to avoid controversial fights publicly. |
| Details are ambiguous, cannot determine the work effort exactly, final decision will be made on scope presentation. | **N/A** |

Supervised by

Dr. Adeel Anjum

Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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# Introduction

This document is the Software Requirement Specification (SRS) of Paigham app; a community based socio-islamic app. SRS of Paigham app will give a detailed overview of the prupose of the system going to be implemented. This document basically consists of the software requirements that the user wants to be implemented in the application. All user and system requirements required to develop Paigham app will be enlisted in this document in the shape of UML diagrams, functional and non-functional requirements. All requirements of the software product will be collected and analyzed in this document. Paigham’s target audience and conceptual working will be defined in this document. This SRS basically is the pre-requisite to the desgining process as designer will implement these requirements into design. It will be then eventually used by the developer to implement the requirements according to the design and make Paigham a working application.

## Purpose

Requirement elicitation through UML diagrams, usecase descriptions, functional and non-functional requirements for the development of Paigham app is the main aim of this document. Paigham will be a community-based mobile application with a web-based admin panel to address the socio-Islamic issues. The residents of Bahria Town Islamabad will be the target audience for the development of Paigham app. This document will encapsule all of the software requirements for the development of the targeted system.

## Scope and Modules

Paighamwill be a community-based mobile application with a web-based admin panel to address the socio-Islamic issues. Paigham will aim at providing a centralized system for Imam-user interaction, Islamic/general announcements, donations etc. And to provide prayer timings of the Mosque governed by the Imam. There will be 3 types of users, namely:

* **User**

User will log in to the app and can check for Mosques on maps with a detailed portfolio of each Mosque and its Imam. User can ask Imams their queries and check content posted on the feed with an option to like and save them. Announcements will be visible to user. User will also be able to change the theme of the app. Donations through an in-app payment system will be available for the user where user will be able to donate to the needy and poor. User will be able to access multiple features like Qur’an audio recitation, Duas, Tasbih counter and Islamic Calendar, Forms of Nikah etc. and check weather forecast.

* **Imam**

Imam will log in to the app where he will be the Admin of his own mosque with access to updating the prayer timings. Imam can post content regarding Islam and can make announcements regarding prayer timings of Jumma/Eid or regarding funerals. Imam will also be able to donate to any of the Mosques available in the targeted community. Features like Qur’an audio recitation, Duas, Tasbih counter, Forms of Nikah, weather forecast and Islamic Calendar will be available to Imam.

* **Admin**

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.

Paigham app will start with Mosque finding with maps on its home page. Multiple mosques of the community will be shown which user can locate and check its portfolio. User can also search for the desired mosque through its name. Each Mosque icon will further show its portfolio consisting of Mosque name, further details including specific mosques’ timings, parking space, Jamia masjid or not, availability of Nikah-khuwan. Imam of that Mosque will also be shown with his profile where 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 where users can like and save the post but will not be allowed to comment and an announcement page for Islamic/General announcements such as a Funeral news, Dates for Islamic events etc. through pre-made templates so it is easier for the Imam as only he will be able to post. User will be provided a ‘how to donate’ feature to make donations to their desired mosque. There will be randomized content stored in the background of the feed will be displayed randomly. Furthermore, there will be other features such as Audio recitation of Qur’an with translation, Islamic calendar, Qibla direction, Tasbih counter and Forms.

## Modules

## Module 1: Profiling

There will be three types of users who will access **Paigham** app. Namely:

### User Profiling

User can login/sign up to app through username/password. 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. User can donate and check for weather forecast. Multiple Islamic features will be available to the user.

### Imam profiling

Imam can login/sign up through username/password. 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 features will be available to the user.

### Admin profiling

The community Heads will be the admins of Paigham app. Admins will check for any illegal or controversial activity on the app. A performance chart of app (number of users) and donations etc. will be shown to them graphically through web analytics.

## Module 2: API Configuration

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. Also, 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. Map API and Qur’an audio API will be used.

## Module 3: Feed & Announcement Screen

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 etc. Also, there will be an announcement page for general announcements like Funeral news, Eid prayer timings etc.

## Module 4: Chat (Text & Audio)

User can contact Imam through a user -friendly chat system which will support voice chatting. 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 5: 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 6: Donations

Paigham will provide a donation/zakat feature which will be implemented using Stripe Gateway payment method. through which users will be able to add their credit/debit card and can give zakat alms to Masjids online.

## Module 7: Features

Multiple features like Qur’an, Tasbih, Islamic calendar, Qibla and Forms 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.

### Islamic Calendar

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.

### Forms

Multiple forms like Nikah, B-Form, Domicile etc. will be available to the user in non-editable form.

### 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 8: Web Analytics

A web-based admin panel will be there with web analytics present which will depict the graphical visualization of the number of users, donations etc. Dashboards will be created and reports will be generated. Using PowerBI, multiple graphs will be generated with different filters on them. There will be an admin check on the activities of the app by the community heads as well.

# Overall Description

Here are some subsections:

## Product Perspective

The development of Paigham app is originated to be a community-based app to facilitate the users of the community and of those visiting the community. Paigham’s home page will show multiple Mosques on Google maps of the targeted community. Through this feature, people of the community and new visitors can find Mosques and check for the services available in that specific Mosque. Its Imam’s portfolio will be there as well which will provide a user-friendly chat system for people to interact with Imam and ask for their queries. A non-interactive feed/announcement portal will be provided as a small Islamic social media where only Imam will be able to upload. Uniformity in Islamic announcements will be provided through Paigham as well. Multiple Islamic features will be available as well. Initially, Paigham has been restricted to be a community-based project as it will be only available for the people of Bahria town and people visiting the respected area. According to the success measure of the proposed system, it will be implemented in other areas as well. Moving on to further communities, Paigham will still remain a community-based app but its scope will be extended to more than one community. Existing systems such as Islam360, MuslimPro etc. provide limited features as features like feed, accouncements, maps, user-Imam interaction are not available in them.

## Operating Environment

**OE-1:** Paigham will be able to operate on Android only (version 6.0 and above)

**OE-2**: Web-based admin panel will be able to operate on Windows 7 and above.

## Design and Implementation Constraints

**CO-1:** Paigham will require android device to work on.

**CO-2:** This system will use sinch API for audio chat.

# Requirement Identifying Technique

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## Use Case Diagram

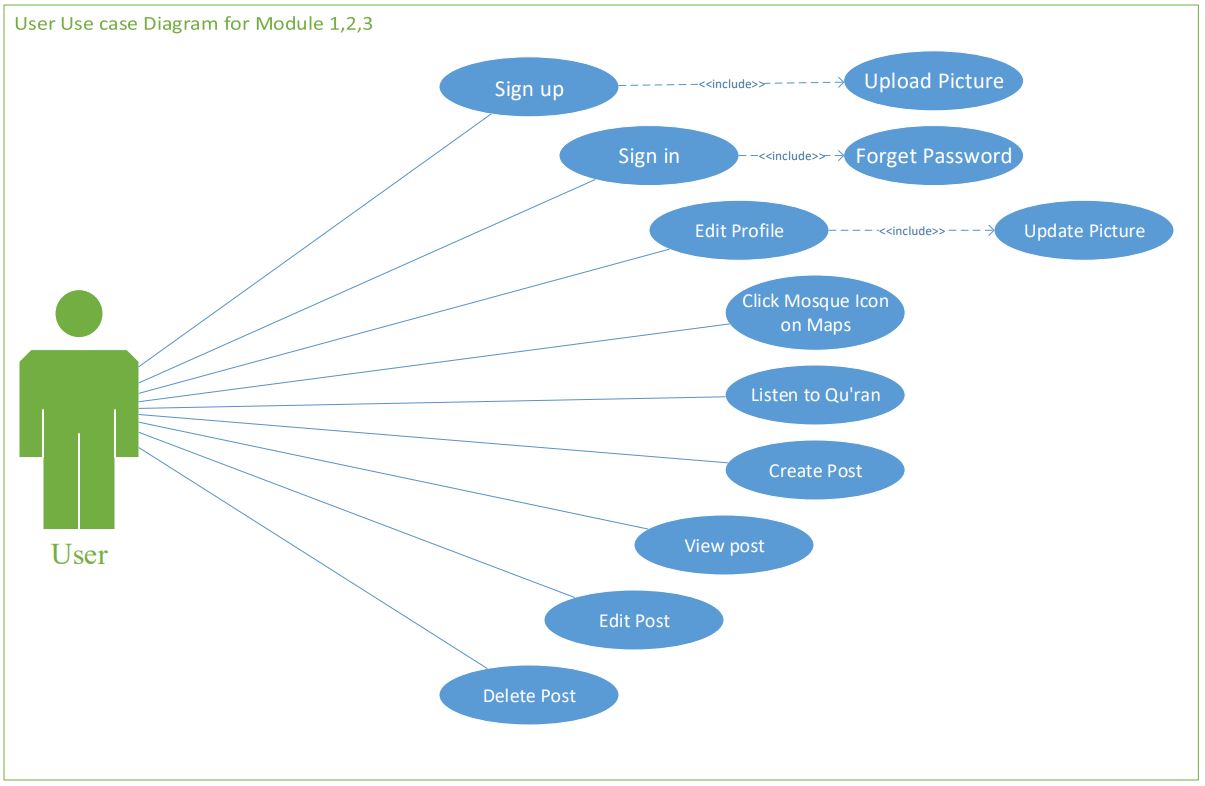


Figure 1: User Use Case Diagram for Module 1,2,3

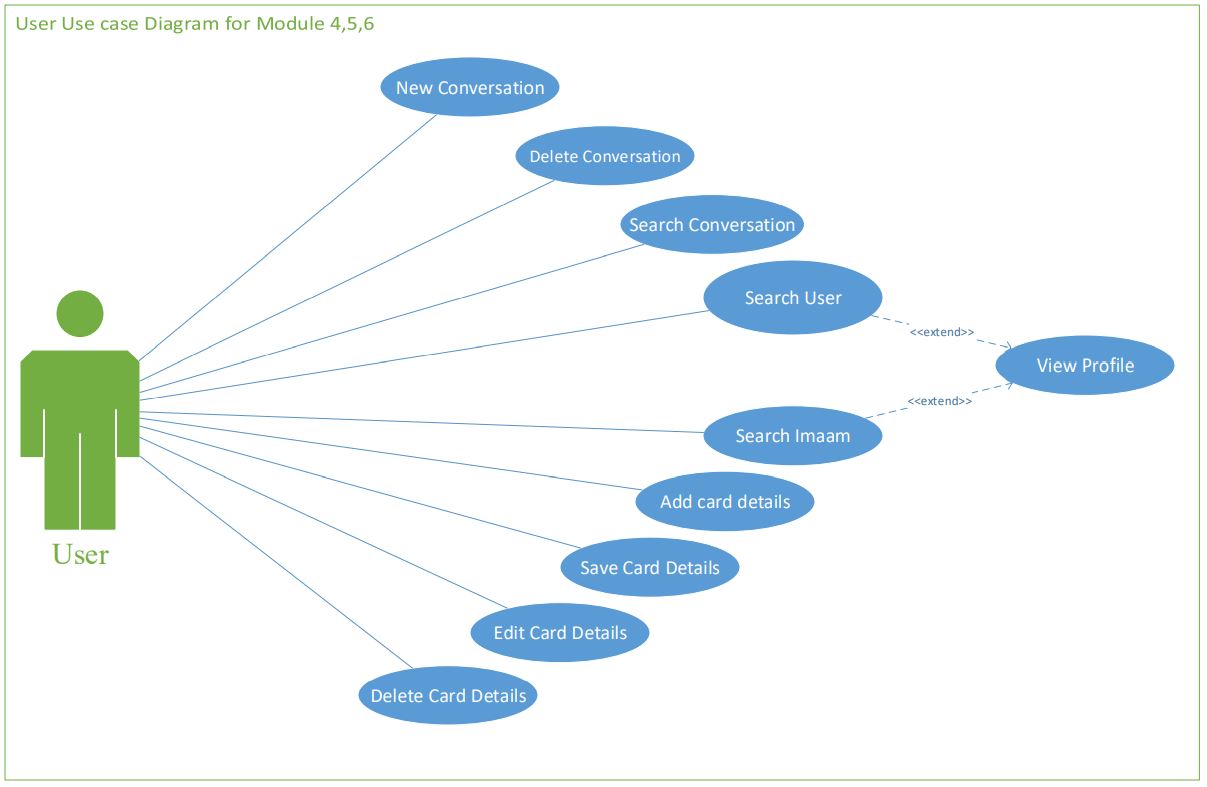


Figure 2: User Use Case Diagram for Module 4,5,6

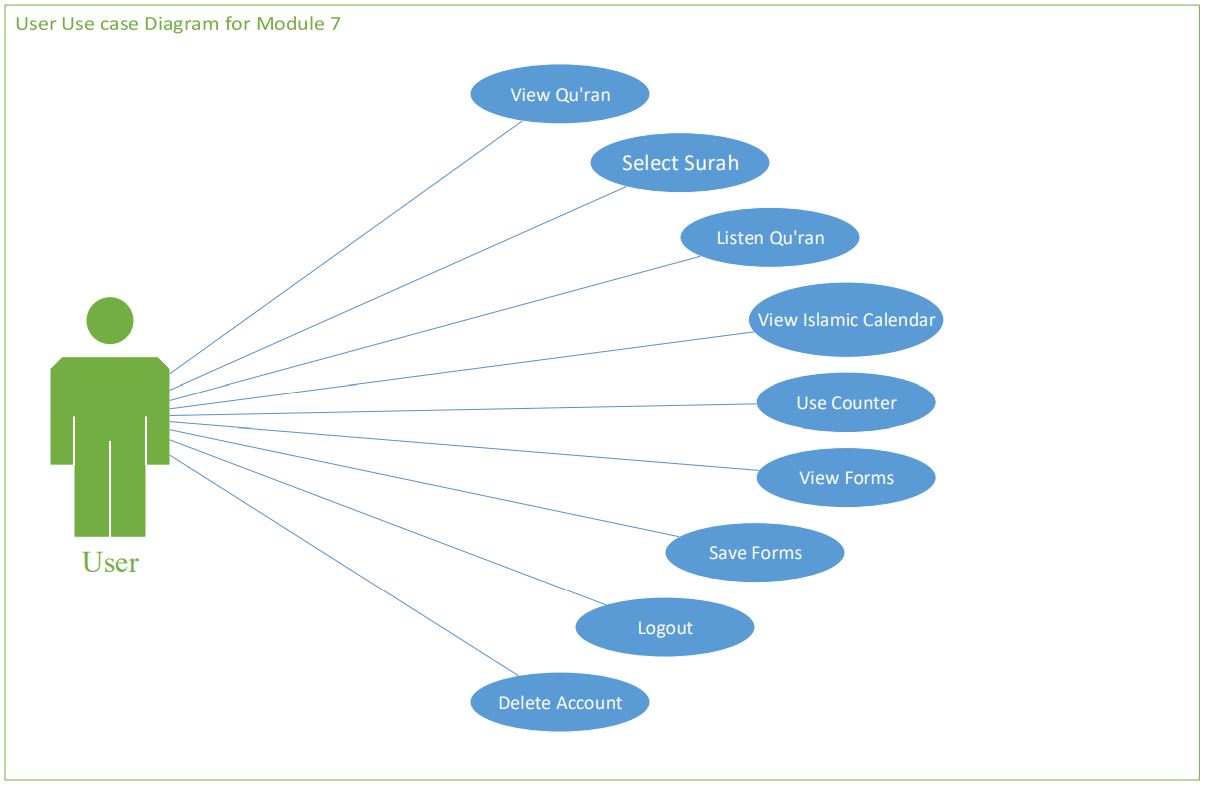


Figure 3: User Use Case Diagram for Module 7

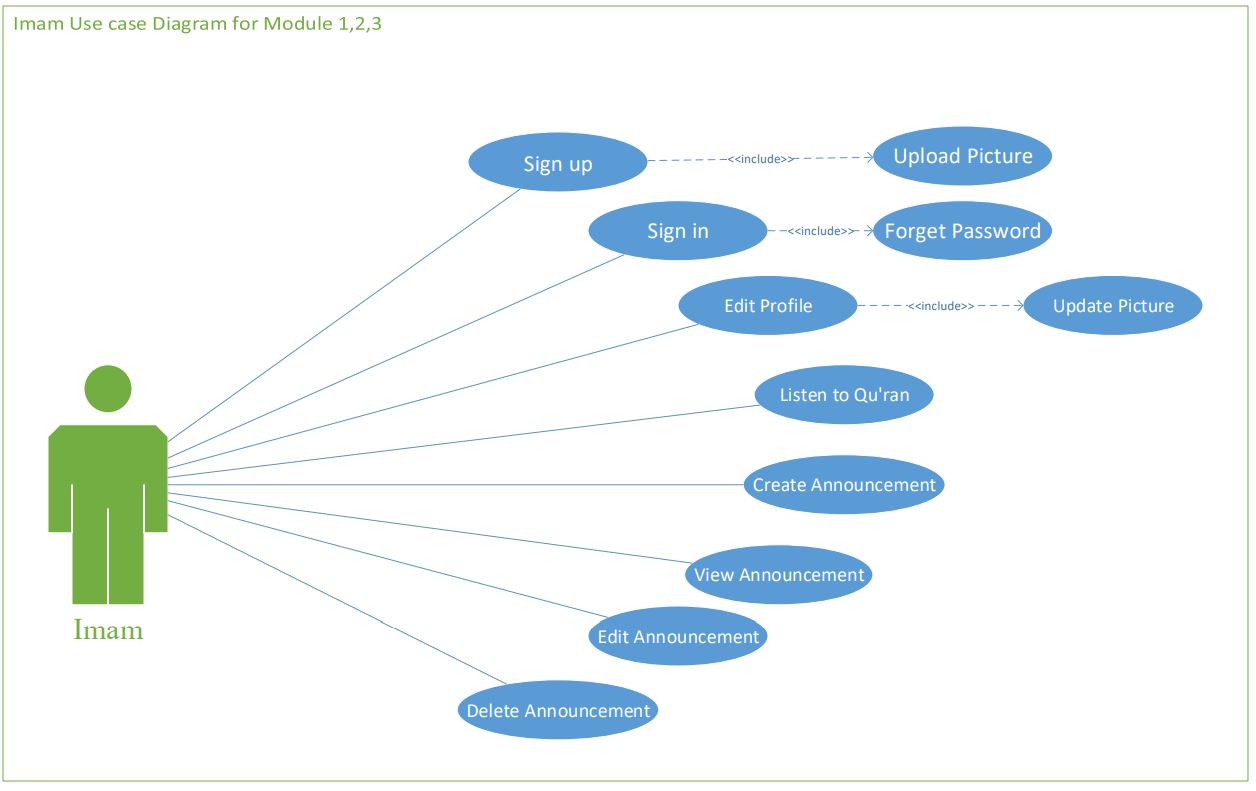


Figure 4: Imam Use Case Diagram for Module 1,2,3

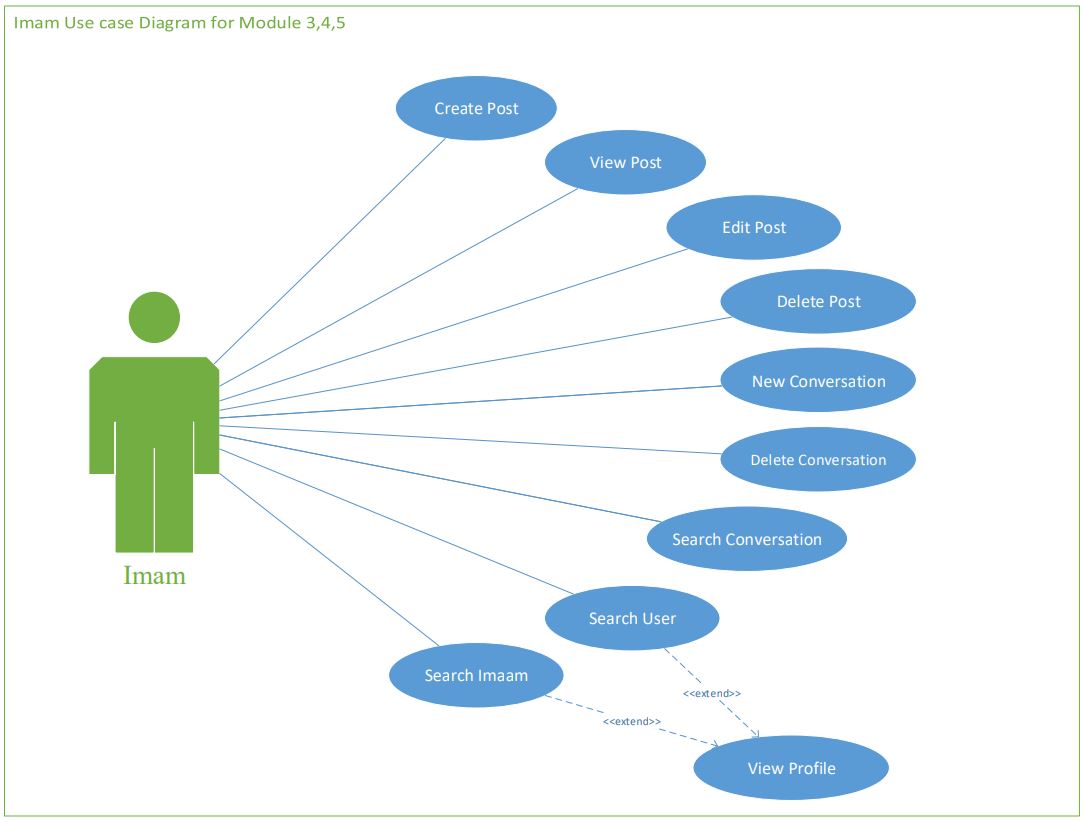


Figure 5: Imam Use Case Diagram for Module 3,4,5

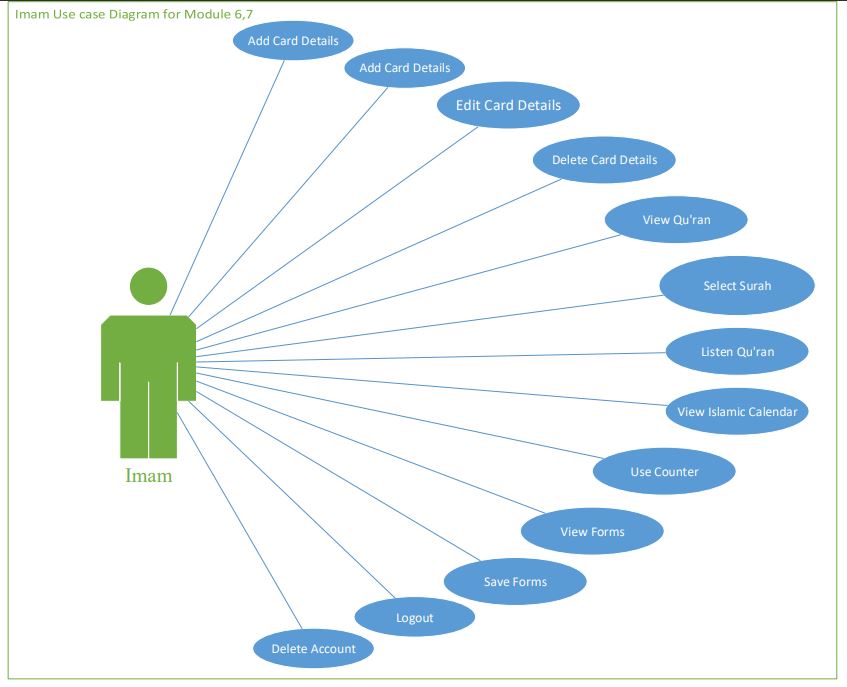


Figure 6: Imam Use Case Diagram for Module 6,7

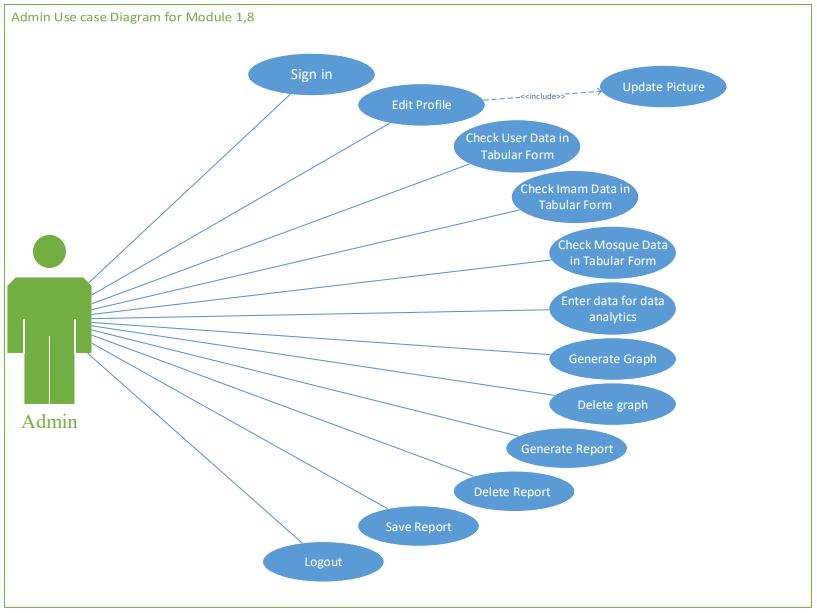


Figure 7: Admin Use Case Diagram for Module 1,8

## Use Case Description

**Module 1: User Profiling**

|  |  |
| --- | --- |
| **M1-UC1** | Sign up **(Mobile)** |
| **M1-UC2** | Upload Picture |
| **M1-UC3** | Sign in |
| **M1-UC4** | Reset password |
| **M1-UC5** | Update picture |
| **M1-UC6** | Edit profile |
| **M1-UC7** | Logout |
| **M1-UC8** | Delete account |
| **M1-UC9** | Sign in **(Web)** |
| **M1-UC10** | Edit Profile |
| **M1-UC11** | Logout |

**Module 2: API configuration**

|  |  |
| --- | --- |
| **M1-UC1** | Click mosque icon |
| **M1-UC2** | Recenter location |
| **M1-UC3** | Find routes |
| **M1-UC4** | Listen to Qur’an |

**Module 3: Non-Interactive Feed/Announcements**

|  |  |
| --- | --- |
| **M1-UC1** | Create announcement |
| **M1-UC2** | View announcement |
| **M1-UC3** | Edit announcement |
| **M1-UC4** | Delete announcement |
| **M1-UC5** | Create post |
| **M1-UC6** | View post |
| **M1-UC7** | Edit post |
| **M1-UC8** | Delete post |

**Module 4: Chat (Text & Audio)**

|  |  |
| --- | --- |
| **M1-UC1** | New conversation |
| **M1-UC2** | Send voice message |
| **M1-UC3** | Delete conversation |
| **M1-UC4** | Search conversation |
| **M1-UC5** | Receive message |
| **M1-UC6** | Receive voice message |

**Module 5: Searching**

|  |  |
| --- | --- |
| **M1-UC1** | Search user |
| **M1-UC2** | Search Imam |
| **M1-UC3** | Add to favorites |
| **M1-UC4** | View profile |

**Module 6: Donations**

|  |  |
| --- | --- |
| **M1-UC1** | Add card details |
| **M1-UC2** | Save card details |
| **M1-UC3** | Edit card details |
| **M1-UC4** | Delete card details |
| **M1-UC5** | Send donation |

**Module 7: Features**

|  |  |
| --- | --- |
| **M1-UC1** | Browse Qur’an |
| **M1-UC2** | Select Surah |
| **M1-UC3** | Listen to Qur’an |
| **M1-UC4** | View Islamic calendar |
| **M1-UC5** | Increase counter |
| **M1-UC6** | Decrease counter |
| **M1-UC7** | Reset counter |
| **M1-UC8** | View form |
| **M1-UC9** | Save form |
| **M1-UC10** | Mosque details |
| **M1-UC11** | Prayer timings |

**Module 8: Web Analytics**

|  |  |
| --- | --- |
| **M1-UC1** | Check user data |
| **M1-UC2** | Check Imam data |
| **M1-UC3** | Check Mosque data |
| **M1-UC4** | Enter Data (Data analytics through PowerBI) |
| **M1-UC5** | Generate graph |
| **M1-UC6** | Delete graph |
| **M1-UC7** | Generate report |
| **M1-UC8** | Delete report |
| **M1-UC9** | Save report |

Module 1: Profiling Usecases

Table 1: Sign up (Mobile)

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 1.1 |
| **Use Case Name:** | Sign up (Mobile) |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | User will be able to register to Paigham app through their username and email to enjoy the proper working of the app. |
| **Trigger:** | User will click on ‘Register now’ button. |
| **Level:** | High |
| **Preconditions:** | User has a valid email address to register. |
| **Includes:** | N/A |
| **Normal Flow:** | 1. User will click on the ‘Register now’ button. 2. User will enter username in the text box. 3. User will enter email address in the text box. 4. User will set password. 5. User will click on the sign up button. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | If the email is not active, error message will be shown. ‘Please enter a valid email address’ |
| **Postconditions:** | User will be registered to the application. |
| **Business Rules** | N/A |
| **Assumptions:** | User is able to read and write English. |

Table 2: Upload Picture

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 1.2 |
| **Use Case Name:** | Upload Picture |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | User will be able to upload picture while registering to Paigham app. Picture will be shown to the user itself. |
| **Trigger:** | User will click on ‘Upload picture’ button. |
| **Level:** | Low |
| **Preconditions:** | User has a picture to upload. |
| **Includes:** | N/A |
| **Normal Flow:** | 1. User will click on the ‘Upload picture’ button. 2. User will choose picture from the phone gallery. 3. User will finalize the picture and click upload picture. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | If the user chooses video in step 3 of normal flow, an error message will be generated, ‘Kindly please choose an image’ |
| **Exceptions:** | N/A |
| **Postconditions:** | Image of user will be uploaded. |
| **Business Rules** | N/A |
| **Assumptions:** | User has a picture in phone gallery. |

Table 3: Sign in (Mobile)

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 1.3 |
| **Use Case Name:** | Sign in (Mobile) |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | User will be able to sign in to Paigham app through their username and email to enjoy the proper working of the app. |
| **Trigger:** | User will click on ‘Sign in’ button. |
| **Level:** | High |
| **Preconditions:** | User has signed up to the application. |
| **Includes:** | UC – 1.1 |
| **Normal Flow:** | 1. User will click on the ‘Sign in’ button. 2. User will enter email in the text box. 3. User will enter password in the text box. 4. User will click on the sign in button. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | If the user is not registered, error message will be shown ‘Please sign up first’ |
| **Postconditions:** | User will be logged in to the application. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 4: Reset password

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 1.4 |
| **Use Case Name:** | Reset password |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | If the user forgets the password, there will be an option to reset the password after a verification process. |
| **Trigger:** | User will click on ‘Forgot your password?’ button. |
| **Level:** | High |
| **Preconditions:** | User has a valid password earlier. |
| **Includes:** | UC – 1.1 |
| **Normal Flow:** | 1. User will click on the ‘Forgot your password’ button. 2. User will perform email verification. 3. User will set new password. 4. User will get a success message. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | Password will be successfully updated and user will log in. |
| **Business Rules** | N/A |
| **Assumptions:** | User is already registered. |

Table 5: Update picture

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 1.5 |
| **Use Case Name:** | Update picture |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | User will be able to update picture any time when he as logged in to the app so he can enjoy multiple pictures. User can also remove the picture. |
| **Trigger:** | User will click on ‘Update picture’ button. |
| **Level:** | Low |
| **Preconditions:** | User has already an uploaded picture. |
| **Includes:** | UC – 1.2, UC – 1.3 |
| **Normal Flow:** | 1. User will click on the ‘Update picture’ button. 2. User will choose the picture from phone gallery. 3. User will finalize the picture and enter. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | User has already uploaded a picture in the profile. |
| **Business Rules** | N/A |
| **Assumptions:** | User has a picture in phone gallery. |

Table 6: Edit profile

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 1.6 |
| **Use Case Name:** | Edit profile |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | User will be able to edit his information afterwards as well. Name, email and password can be changed while editing the profile. |
| **Trigger:** | User will click on ‘Edit profile’ button. |
| **Level:** | Medium |
| **Preconditions:** | User has already added information to the profile while signing in. |
| **Includes:** | UC – 1.3 |
| **Normal Flow:** | 1. User will click on the ‘Edit profile’ button in the tab navigator. 2. User will click on change name. 3. User will click on change email address. 4. User will click on change password. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | If the email entered is not active, error message will be shown. ‘Please enter a valid email address’ |
| **Postconditions:** | User information will be edited. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 7: Logout

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 1.7 |
| **Use Case Name:** | Logout |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | User will be able to logout out off Paigham app when not in use. |
| **Trigger:** | User will click on ‘Logout’ button. |
| **Level:** | High |
| **Preconditions:** | User is signed in to the application. |
| **Includes:** | UC – 1.3 |
| **Normal Flow:** | User will click on the ‘Logout button’ |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | User will be logged out of the application. |
| **Business Rules** | N/A |
| **Assumptions:** | User wants to logout out off the app. |

Table 8: Delete account

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 1.8 |
| **Use Case Name:** | Delete account |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | User will be able to delete the registered account on the application if he as any issues. |
| **Trigger:** | User will click on ‘Delete account’ button. |
| **Level:** | Medium |
| **Preconditions:** | User is registered on the application. |
| **Includes:** | UC – 1.1 |
| **Normal Flow:** | 1. User will click on the ‘Delete account’ button. 2. User will choose the reason of deleting the account. 3. User will confirm. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | Account of the user will be permanently deleted. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 9: Sign in (Web)

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 1.9 |
| **Use Case Name:** | Sign in (Web) |
| **Actors:** | Admin |
| **Description:** | Admin will be able to login to the web panel of the application to execute admin rights. |
| **Trigger:** | Admin will click on ‘Sign in’ button. |
| **Level:** | High |
| **Preconditions:** | Admin has the login credentials. |
| **Includes:** | N/A |
| **Normal Flow:** | 1. Admin will click on the ‘Sign in’ button. 2. Admin will enter email in the text box. 3. Admin will enter password in the text box. 4. Admin will click on the sign in button.   . |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | If the credentials are not valid, error message will be shown, ‘Please enter the right username and password’ |
| **Postconditions:** | Admin will be logged into the application |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 10: Edit profile

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 1.10 |
| **Use Case Name:** | Edit profile |
| **Actors:** | Admin |
| **Description:** | Admin will be able to edit profile information if the user wants to. |
| **Trigger:** | Admin will click on ‘Edit profile’ button. |
| **Level:** | Medium |
| **Preconditions:** | Admin has already added information to the profile while signing in. |
| **Includes:** | UC – 1.9 |
| **Normal Flow:** | 1. Admin will click on the ‘Edit profile’ button in the tab navigator. 2. Admin will click on change name. 3. Admin will click on change email address. 4. Admin will click on change password. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | If the email entered is not active, error message will be shown. ‘Please enter a valid email address’ |
| **Postconditions:** | Admin’s information will be edited. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 11: Logout

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 1.11 |
| **Use Case Name:** | Logout |
| **Actors:** | Admin |
| **Description:** | Admin will be able to logout out off the admin panel of Paigham app when not in use |
| **Trigger:** | Admin will click on the ‘Logout’ button. |
| **Level:** | High |
| **Preconditions:** | Admin is already logged in |
| **Includes:** | UC – 1.9 |
| **Normal Flow:** | Admin will click on the ‘logout ‘ button to shut down the app till next login. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | Admin will be logged out off the admin panel. |
| **Business Rules** | N/A |
| **Assumptions:** | Admin wants to logout of the application. |

Module 2: API Configuration Usecases

Table 12: Click mosque icon

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 2.1 |
| **Use Case Name:** | Click mosque icon |
| **Actors:** | User |
| **Description:** | User will be able to click on the mosque markers shown on the maps consisting of mosques of the area. |
| **Trigger:** | User will click on mosque icon shown on the maps. |
| **Level:** | High |
| **Preconditions:** | User has opened the application. |
| **Includes:** | N/A |
| **Normal Flow:** | User will click on the mosque icon. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | User will go to the feature page of the mosque. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 13: Recenter Location

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 2.2 |
| **Use Case Name:** | Recenter Location |
| **Actors:** | User |
| **Description:** | While locating the desired mosque on the maps, user will be able to recenter their location to the point where they are. |
| **Trigger:** | User will click on ‘Recenter button’ |
| **Level:** | Low |
| **Preconditions:** | User has already moved the position marker on the maps |
| **Includes:** | N/A |
| **Normal Flow:** | User will click on the recenter button. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | Location of the user will be recentered. |
| **Business Rules** | N/A |
| **Assumptions:** | User has moved the location marker. |

Table 14: Find route

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 2.3 |
| **Use Case Name:** | Find route |
| **Actors:** | User |
| **Description:** | User will be able to find routes on the maps to their desired mosques which will help them for locating the mosque. |
| **Trigger:** | User will click on ‘Directions’ button in the mosque feature page. |
| **Level:** | High |
| **Preconditions:** | User has clicked on the mosque icon. |
| **Includes:** | UC – 2.1 |
| **Normal Flow:** | 1. User will click on the directions button present in the mosque feature page. 2. User will start the directions |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | User will be shown routes on maps |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 15: Listen to Qur’an

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 2.4 |
| **Use Case Name:** | Listen to Qur’an |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | User will be able to listen to surahs of Qur’an. |
| **Trigger:** | User will click on ‘Play’ button |
| **Level:** | High |
| **Preconditions:** | User is on the features page. |
| **Includes:** | N/A |
| **Normal Flow:** | 1. User will click on the play button. 2. User can stop and play again. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | If the internet stops, error will be shown ‘Please check your internet connectivity. |
| **Postconditions:** | User will be able to listen to Qur’an. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Module 3: Feed/Announcements

Table 16: Create Announcment

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 3.1 |
| **Use Case Name:** | Create announcement |
| **Actors:** | Imam |
| **Description:** | Imam will be able to create an announcement on the announcement page which will be visible to the users. These announcemnets can be Islamic and general as well. |
| **Trigger:** | Imam will click on the ‘Create announcement’ button. |
| **Level:** | High |
| **Preconditions:** | Imam is on the announcement page. |
| **Includes:** | UC – 1.3 |
| **Normal Flow:** | 1. Imam will click on the ‘Creat announcement’ button 2. Imam can use the given templates of news. 3. Imam will be able to add image in the announcement |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | If user tries to create announcement, show an error ‘Sorry only Imam can create announcement’ |
| **Postconditions:** | An announcement will be created |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 17: View announcement

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 3.2 |
| **Use Case Name:** | View announcement |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | User will be able to view the announcements made by the Imams. They will help them with the important news of the community. |
| **Trigger:** | User will go on the announcement page. |
| **Level:** | High |
| **Preconditions:** | Announcement is made by the Imam |
| **Includes:** | UC – 1.3 , UC – 3.1 |
| **Normal Flow:** | 1. User will click on the announcement page. 2. User can scroll and see the announcements made by Imams. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | User will be able to view the announcement made by Imam. |
| **Business Rules** | N/A |
| **Assumptions:** | Imam has made an announcement. |

Table 18: Edit Announcement

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 3.3 |
| **Use Case Name:** | Edit announcement |
| **Actors:** | Imam |
| **Description:** | Imam will be able to edit the announcement made on the page in case of any mistakes made in the announcement, |
| **Trigger:** | Imam will click on the ‘Edit’ button. |
| **Level:** | High |
| **Preconditions:** | Imam has already an announcement. |
| **Includes:** | 3.1 |
| **Normal Flow:** | 1. Imam will click on the Edit button under the announcement made. 2. Imam can edit the text or the type of announcement. 3. Imam will confirm and repost it. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | Before publishing after editing, Imam will be asked if they actually want to edit it with confirm checkbox. |
| **Exceptions:** | N/A |
| **Postconditions:** | The announcement will be edited. |
| **Business Rules** | N/A |
| **Assumptions:** | The announcement has some issues which need to be edited. |

Table 19: Delete Announcement

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 3.4 |
| **Use Case Name:** | Delete announcement |
| **Actors:** | Imam |
| **Description:** | Imam will be able to delete the announcement made in case of any update or mistake. |
| **Trigger:** | User will click on ‘Delete’ button under the announcement. |
| **Level:** | High |
| **Preconditions:** | Imam has already made an announcement |
| **Includes:** | UC – 3.1 |
| **Normal Flow:** | 1. Imam will go the announcement and click the delete button on the post. 2. Imam will be shown ‘Yes or No’ option for confirmation. 3. Imam will choose Yes to delete the post. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | If Imam chooses ‘No’ instead of ‘Yes’, the announcement will not be deleted. |
| **Exceptions:** | N/A |
| **Postconditions:** | The announcement will be deleted. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 20: Create post

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 3.5 |
| **Use Case Name:** | Create post |
| **Actors:** | Primary Actor: Imam  Secondary Actor: User |
| **Description:** | Imam and user will be able to post on the non-interactive feed in Paigham app. This will be for sharing Islamic content on which commenting will be off. |
| **Trigger:** | Imam and user will click on the ‘Create post’ button |
| **Level:** | High |
| **Preconditions:** | Imam and user are logged in the app and are on the feed page. |
| **Includes:** | N/A |
| **Normal Flow:** | 1. Imam/user will click on the ‘create post’ button on the feed. 2. Imam/user will add text and images/videos for the post. 3. Once added, they will click on ‘Post’ button. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | The post will be uploaded on the feed. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 21: View post

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 3.6 |
| **Use Case Name:** | View post |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | User/Imam will be able to view the posts made on the feed. These posts will be Islamic ones. |
| **Trigger:** | User will click on the Feed. |
| **Level:** | High |
| **Preconditions:** | Posts are posted on the feed. |
| **Includes:** | UC – 3.5 |
| **Normal Flow:** | 1. User/Imam will click on the feed. 2. In Feed, there will will be multiple posts which they will view 3. User/Imam can scroll down the feed. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | If the feed is empty, error message will be shown ‘No posts to show here’ |
| **Postconditions:** | User/Imam can view posts on the feed |
| **Business Rules** | N/A |
| **Assumptions:** | Feed is saturated with posts. |

Table 22: Edit post

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 3.7 |
| **Use Case Name:** | Edit post |
| **Actors:** | Primary Actor: Imam  Secondary Actor: User |
| **Description:** | User/Imam will be able to edit the posts made on the feed in case of updates or mistakes |
| **Trigger:** | User/Imam will click on the ‘Edit’ button on the feed post. |
| **Level:** | High |
| **Preconditions:** | Post is already posted on the feed. |
| **Includes:** | UC – 3.5 |
| **Normal Flow:** | 1. User/Imam will click on the ‘Edit post’ button. 2. User/Imam will change the text/image of the post. 3. User/Imam will confirm the changes and post. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | Changes will be edited after its published again |
| **Business Rules** | N/A |
| **Assumptions:** | Posts have some mistakes or there are some updates. |

Table 23: Delete post

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 3.8 |
| **Use Case Name:** | Delete post |
| **Actors:** | Primary Actor: Imam  Secondary Actor: User |
| **Description:** | Imam/User will be able to delete the posts made on the feed in case of any mistakes or updates. |
| **Trigger:** | User will click on ‘Delete’ button under the given post |
| **Level:** | High |
| **Preconditions:** | Targeted post is already present on the feed. |
| **Includes:** | UC – 3.5 |
| **Normal Flow:** | 1. Imam/User will click on the delete button given under the post. 2. Imam/User will confirm with ‘Yes or no’ to delete the message. 3. Imam/User will confirm with Yes. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | If Imam/User chooses ‘No’, the post will not be deleted. |
| **Exceptions:** | N/A |
| **Postconditions:** | The post will be deleted. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Module 4: Chat (Text & Audio)

Table 24: Start new conversation

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 4.1 |
| **Use Case Name:** | Start new conversation |
| **Actors:** | User |
| **Description:** | User will be able to start a new conversation with the Imam or other user. This will allow interaction |
| **Trigger:** | User will click on the ‘Create chat’ button |
| **Level:** | High |
| **Preconditions:** | User is in the chat |
| **Includes:** | N/A |
| **Normal Flow:** | User will go to the create icon in the chat |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | New chat will be created. |
| **Business Rules** | N/A |
| **Assumptions:** | User wants to interact with someone. |

Table 25: Send voice message

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 4.2 |
| **Use Case Name:** | Send voice message |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | User/Imam will be able to send voice messages while interacting with each other in the chat app of Paigham app. |
| **Trigger:** | User/Imam will click on ‘Voice message’ Icon. |
| **Level:** | Medium |
| **Preconditions:** | User/Imam has an active chat with someone. |
| **Includes:** | UC – 4.1 |
| **Normal Flow:** | 1. User/Imam will click on the voice icon in the chat. 2. User/Imam will speak and record their message 3. User/Imam will keep the icon tapped till they are recording 4. User/Imam will tap off the icon to send the message. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | A voice message will be sent. |
| **Business Rules** | N/A |
| **Assumptions:** | User/Imam wants to interact. |

Table 26: Delete conversation

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 4.3 |
| **Use Case Name:** | Delete conversation |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | User/Imam will be able to delete the conversation made with each other if they want to. |
| **Trigger:** | User/Imam will click on the Delete conversation button in the chat. |
| **Level:** | High |
| **Preconditions:** | Chat is already created. |
| **Includes:** | UC – 4.1 |
| **Normal Flow:** | 1. User/Imam will click on the delete button on the chat they want to delete. 2. User/Imam will be shown ‘Yes or No’ message. 3. User/Imam will confirm with ‘Yes’ to delete. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | If User/Imam will choose no, the chat will not be deleted. |
| **Exceptions:** | N/A |
| **Postconditions:** | The chat will be deleted. |
| **Business Rules** | N/A |
| **Assumptions:** | User/Imam wants to delete the chat. |

Table 27: Search conversation

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 4.4 |
| **Use Case Name:** | Search conversation |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | User/Imam will be able to search for the conversations they have made with each other by name. |
| **Trigger:** | User/Imam will click on the search icon in the chat |
| **Level:** | Low |
| **Preconditions:** | User has already created a conversation. |
| **Includes:** | UC – 4.1 |
| **Normal Flow:** | 1. User/Imam will click on the search icon in the chat. 2. User/Imam will type the name of the user they want to search, 3. User/Imam will press enter on the desired person. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | If that person is not registered on the application, error message will be shown ‘No user found’ |
| **Postconditions:** | Desired chat will be found |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 28: Receive message

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 4.5 |
| **Use Case Name:** | Receive message |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | Imam/User will be able to receive messages through the in-app payment system of Paigham app. |
| **Trigger:** | User/Imam will click on the message. |
| **Level:** | High |
| **Preconditions:** | User/Imam has some ongoing chat. |
| **Includes:** | N/A |
| **Normal Flow:** | User will be able to receive messages. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | Message will be received to the user in the application. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 29: Receive voice message

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 4.6 |
| **Use Case Name:** | Receive voice message |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | User/Imam will be able to receive voices messages on the in-app chat of Paigham app. |
| **Trigger:** | User will/Imam will listen to the voice message, |
| **Level:** | Medium |
| **Preconditions:** | User/Imam has an ongoing chat. |
| **Includes:** | N/A |
| **Normal Flow:** | User/Imam will receive a message on the in-app chat system of Paigham app. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | Voice message will be received |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

**Module 5: Searching**

Table 30: Search user

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 5.1 |
| **Use Case Name:** | Search user |
| **Actors:** | User |
| **Description:** | User will be able to search other users registered on the application and interact with them |
| **Trigger:** | User will tap on the search field. |
| **Level:** | High |
| **Preconditions:** | Other user is registered on the application. |
| **Includes:** | N/A |
| **Normal Flow:** | 1. User will go to the search field. 2. User will type the name of other user. 3. User will click on it. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | If the user is not registered on the application, error message will be shown ‘Sorry, user not found’ |
| **Postconditions:** | Other user will be searched by the user. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

‘

Table 31: Search Imam

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 5.2 |
| **Use Case Name:** | Search Imam |
| **Actors:** | User |
| **Description:** | User will be able to search Imams registered on the application and interact with them and ask for queries. |
| **Trigger:** | User will tap on the search field. |
| **Level:** | High |
| **Preconditions:** | Imam is registered on the application |
| **Includes:** | N/A |
| **Normal Flow:** | 1. User will go to the search field. 2. User will type the name of Imam 3. User will click on it. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | If the Imam is not registered on the application, error message will be shown ‘Sorry, Imam not found’ |
| **Postconditions:** | Imam will be searched by the user |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 32: Add to favorites

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 5.3 |
| **Use Case Name:** | Add to favorites |
| **Actors:** | User |
| **Description:** | User will be able to save other users and Imam for the next time. It will be there favorites to search. |
| **Trigger:** | User will click on the ‘Add to favorite’ button on other user/Imam profile. |
| **Level:** | Low |
| **Preconditions:** | User will search other User/Imam. |
| **Includes:** | UC – 5.1 , UC – 5.2 |
| **Normal Flow:** | User will click on the add to favorites button on the side of the name on the profile |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | Other user/Imam will be added to favorites for searching. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 33: View profile

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 5.4 |
| **Use Case Name:** | View profile |
| **Actors:** | User |
| **Description:** | User will be able to view other profiles and interact. |
| **Trigger:** | User will click on ‘profile name’ when searched. |
| **Level:** | High |
| **Preconditions:** | User has searched some profile. |
| **Includes:** | UC – 5.1 , UC – 5.2 |
| **Normal Flow:** | User will click on the name of the profile to check the profile. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | Profile will be viewed. |
| **Business Rules** | N/A |
| **Assumptions:** | User wants to view more profiles. |

Module 6: Donations

Table 34: Add card details

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 6.1 |
| **Use Case Name:** | Add card details |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | User/Imam will add their card details to the text field |
| **Trigger:** | User/Imam will type in the ‘Add card details’ |
| **Level:** | High |
| **Preconditions:** | User/Imam has clicked on the donation button. |
| **Includes:** | UC – 1.3 |
| **Normal Flow:** | 1. User/Imam will add the stakeholder name. 2. User/Imam will enter the card number. 3. User/Imam will enter the expiry date of the card 4. User/Imam will click on ‘Add card’ |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | If the card number is more than standard digits, error message will be generated ‘Please enter the correct number of digits’ |
| **Postconditions:** | Card details of the user will be added |
| **Business Rules** | N/A |
| **Assumptions:** | User wants to donate. |

Table 35: Save card details

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 6.2 |
| **Use Case Name:** | Save card details |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | User/Imam will be able to save their card details. |
| **Trigger:** | User/Imam will click on the ‘Save details’ button while adding the card details |
| **Level:** | Medium |
| **Preconditions:** | User has already entered the card details. |
| **Includes:** | UC – 6.1 |
| **Normal Flow:** | User/Imam will click on the save details button while adding the card details. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | Card details will be saved for the second time. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 36: Edit card details

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 6.3 |
| **Use Case Name:** | Edit card details |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | User/Imam will be able to edit the card details they have entered to make donations. |
| **Trigger:** | User will click on ‘Edit card details’ button |
| **Level:** | Medium |
| **Preconditions:** | User has added the card details. |
| **Includes:** | UC – 6.1 |
| **Normal Flow:** | 1. User/Imam will click on the ‘Edit card details’ button. 2. User/Imam will change the card number of the card. 3. User/Imam will change the date of the card. 4. User/Imam will confirm the changes with ‘Yes’ |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | If User/Imam will choose ‘No’, the card details will not be added. |
| **Exceptions:** | N/A |
| **Postconditions:** | The card details will be edited |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 37: Delete card details

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 6.4 |
| **Use Case Name:** | Delete card details |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | User/Imam will be able to delete their card details from the application in case of any updates or mistakes. |
| **Trigger:** | User/Imam will click on ‘Delete card details’ button. |
| **Level:** | Medium |
| **Preconditions:** | User/Imam has added card details |
| **Includes:** | UC – 6.1 |
| **Normal Flow:** | 1. User/Imam will be click on the delete button. 2. User/Imam will confirm with ‘Yes’ to delete the account/. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | If User/Imam will select ‘No’ after deleting the details, card details will not be deleted. |
| **Exceptions:** | N/A |
| **Postconditions:** | The card details will be deleted from the application. |
| **Business Rules** | N/A |
| **Assumptions:** | User/Imam wants to delete the card details. |

Table 38: Send donation

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 6.5 |
| **Use Case Name:** | Send donation |
| **Actors:** | Primary Actor: User  Secondary Actor: Imam |
| **Description:** | User/Imam will be able to make donation through the in-app payment feature of Paigam |
| **Trigger:** | User/Imam will click on the ‘Donate’ button. |
| **Level:** | High |
| **Preconditions:** | User has added the card details. |
| **Includes:** | UC – 6.1 |
| **Normal Flow:** | 1. User/Imam will click on donate button 2. User/Imam will choose mosque to donate. 3. User/Imam will enter donation amount. 4. User/Imam will confirm the payment by ‘Yes’ |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | If user/Imam chooses ‘No’, payment will not be made. |
| **Exceptions:** | N/A |
| **Postconditions:** | Donation will be made |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

**Module 7: Features**

Table 39: Browse Qur’an

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 7.1 |
| **Use Case Name:** | Browse Qur’an |
| **Actors:** | User |
| **Description:** | User will be able to browse the Holy Qur’an to recite and listen to surahs of it. |
| **Trigger:** | User will click on the Qur’an icon in the features tab. |
| **Level:** | High |
| **Preconditions:** | User has opened the application. |
| **Includes:** | N/A |
| **Normal Flow:** | 1. User will go to the Qur’an icon 2. User will click on the Qur’an icon |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | User will be able to listen to Qur’anic verses. |
| **Business Rules** | N/A |
| **Assumptions:** | User is a muslim. |

Table 40: Select surah

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 7.2 |
| **Use Case Name:** | Select Surah |
| **Actors:** | User |
| **Description:** | User will be able to read and listen to the surahs of Qur’an |
| **Trigger:** | User will click on the surah button |
| **Level:** | Medium |
| **Preconditions:** | User has clicked on the Qur’an icon. |
| **Includes:** | UC – 7.1 |
| **Normal Flow:** | User will click on the surahs |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | User will be able to listen to surahs |
| **Business Rules** | N/A |
| **Assumptions:** | User wants to recite the Holy Qur’an. |

Table 41: Listen to Qur’an

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 7.3 |
| **Use Case Name:** | Listen to Qur’an |
| **Actors:** | User |
| **Description:** | Users of Paigham app will be able to listen to Qur’an. Multiple surahs will be displayed which the user will select and play to listen. |
| **Trigger:** | User will click on the Surah. |
| **Level:** | Medium |
| **Preconditions:** | User has clicked on the Qur’an icon. |
| **Includes:** | UC – 7.1 |
| **Normal Flow:** | 1. User will click on the surah. 2. User will click the play button. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | User is listening to the surahs of Qur’an. |
| **Business Rules** | N/A |
| **Assumptions:** | User is a Muslim. |

Table 42: View Islamic calendar

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 7.4 |
| **Use Case Name:** | View Islamic calendar |
| **Actors:** | User |
| **Description:** | User will be able to view the Islamic calendar display in the features page. User can see the day and date and scroll for further months. |
| **Trigger:** | User will click on the ‘Calendar’ icon. |
| **Level:** | Low |
| **Preconditions:** | User is on the features page. |
| **Includes:** | N/A |
| **Normal Flow:** | 1. User will click on the features page of Paigham app. 2. User will click on the calendar icon. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | The calendar will be showed to the user |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 43: Increase counter

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 7.5 |
| **Use Case Name:** | Increase counter |
| **Actors:** | User |
| **Description:** | User can increase the tasbih counter every time user recited some Islamic verses. |
| **Trigger:** | User will click on the ‘Upper arrow’ in the counter |
| **Level:** | Low |
| **Preconditions:** | User has opened counter. |
| **Includes:** | N/A |
| **Normal Flow:** | User will tap on the upper arrow in the counter |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | The counter will increase by the number of times the counter is tapped upwards. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 44: Decrease counter

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 7.6 |
| **Use Case Name:** | Decrease counter |
| **Actors:** | User |
| **Description:** | User can decrease the tasbih counter every time user recited some Islamic verses. |
| **Trigger:** | User will click on the ‘Lower arrow’ in the counter |
| **Level:** | Low |
| **Preconditions:** | User has opened the counter. |
| **Includes:** | N/A |
| **Normal Flow:** | User will tap on the lower arrow in the counter |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | The counter will decrease by the number of times the counter is tapped downwards. |
| **Business Rules** | N/A |
| **Assumptions:** | User is able to read and write English. |

Table 45: Reset counter

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 7.7 |
| **Use Case Name:** | Reset counter |
| **Actors:** | User |
| **Description:** | User will be able to reset the counter to 0 after recitations. |
| **Trigger:** | User will click on the ‘Reset counter’ button/. |
| **Level:** | Low |
| **Preconditions:** | Counter has some value initialized. |
| **Includes:** | UC – 7.5 |
| **Normal Flow:** | 1. User will click on the button reset counter. 2. User will confirm to reset with ‘Yes’ |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | If the user choose ‘No’, the counter will not be reset. |
| **Exceptions:** | N/A |
| **Postconditions:** | The counter will be reset to the 0 initial value of the counter that is 0. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 46: View form

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 7.8 |
| **Use Case Name:** | View form |
| **Actors:** | User |
| **Description:** | There will be multiple forms like Nikah etc. available to the user which user can view. |
| **Trigger:** | User will click on the ‘Forms’ icon in Paigham app. |
| **Level:** | Low |
| **Preconditions:** | User has opened the features page. |
| **Includes:** | N/A |
| **Normal Flow:** | User will click on the Icon Forms. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | Forms will be displayed to the user. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 47: Save form

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 7.9 |
| **Use Case Name:** | Save form |
| **Actors:** | User |
| **Description:** | User will be able to save the form and download them for personal uses. These forms will be multiple daily life Islamic forms, |
| **Trigger:** | User will click on the form. |
| **Level:** | Medium |
| **Preconditions:** | User has viewed the forms |
| **Includes:** | UC – 7.8 |
| **Normal Flow:** | 1. User will click on the save forms. 2. User will download the forms from there. 3. User will set the path of the file to be stored when downloaded. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | If the form doesn’t download, show error message ‘Please free up some space’ |
| **Postconditions:** | Desired form will be downloaded. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

**Module 8: Web analytics**

Table 48: Check user data

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 8.1 |
| **Use Case Name:** | Check user data |
| **Actors:** | Admin |
| **Description:** | Admin will check the graphical analysis of the number of users joining the application. |
| **Trigger:** | Admin will click on ‘Users’ tab in the dashboard |
| **Level:** | High |
| **Preconditions:** | Admin is logged in to the application |
| **Includes:** | UC – 1.9 |
| **Normal Flow:** | 1. Admin will click on the ‘Users’ tab in the dashboard 2. Data will be displayed in graphical form 3. Admin will check the data |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | Data will be presented. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 49: Check Mosque data

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 8.2 |
| **Use Case Name:** | Check Mosque data |
| **Actors:** | Admin |
| **Description:** | Admin will check the graphical analysis of the number of Mosques joining the application. |
| **Trigger:** | Admin will click on ‘Mosque’ tab in the dashboard |
| **Level:** | High |
| **Preconditions:** | Admin is logged in to the application |
| **Includes:** | UC – 1.9 |
| **Normal Flow:** | 1. Admin will click on the ‘Mosque’ tab in the dashboard 2. Data will be displayed in graphical form 3. Admin will check the data |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | Data will be presented to the admin. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 50: Check Imam data

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 8.3 |
| **Use Case Name:** | Check Imam data |
| **Actors:** | Admin |
| **Description:** | Admin will check the graphical analysis of the number of Imams joining the application. |
| **Trigger:** | Admin will click on ‘Imam’ tab in the dashboard |
| **Level:** | High |
| **Preconditions:** | Admin is logged in to the application |
| **Includes:** | UC – 1.9 |
| **Normal Flow:** | 1. Admin will click on the ‘Imam’ tab in the dashboard 2. Data will be displayed in graphical form 3. Admin will check the data |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | N/A |
| **Postconditions:** | Data will be presented to the admin. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 51: Enter data

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 8.4 |
| **Use Case Name:** | Enter Data |
| **Actors:** | Admin |
| **Description:** | Admin will be able to enter the data into the tools PowerBI for analysing the web statistics |
| **Trigger:** | Admin will click ‘Enter data’ |
| **Level:** | High |
| **Preconditions:** | Admin is logged in to the application |
| **Includes:** | UC – 1.9 |
| **Normal Flow:** | Admin will enter the data into the tools. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | If the data entered is insufficient, an error message will shown ‘Please enter complete data’ |
| **Postconditions:** | Data will be presented to the admin. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 52: Generate Graph

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 8.5 |
| **Use Case Name:** | Generate graph |
| **Actors:** | Admin |
| **Description:** | Admin will be able to generate graph of the data entered and analyze the statistics. |
| **Trigger:** | Admin will click on the ‘Generate button’ present in the admin panel. |
| **Level:** | High |
| **Preconditions:** | Admin has entered the data |
| **Includes:** | UC – 8.4 |
| **Normal Flow:** | Admin will click on the ‘Generate graph’ button present. Admin will confirm by ‘Yes or No’ |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | If the admin chooses no, the graph will not be generated. |
| **Exceptions:** | N/A |
| **Postconditions:** | Graph will be generated. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 53: Generate report

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 8.6 |
| **Use Case Name:** | Generate report |
| **Actors:** | Admin |
| **Description:** | Admin will be able to generate report of the statistics received from the graph. |
| **Trigger:** | Admin will click on the ‘Generate report’ button |
| **Level:** | Medium |
| **Preconditions:** | Graph has been generated. |
| **Includes:** | UC – 8.5 |
| **Normal Flow:** | 1. Admin will click on the generate report button 2. System will be notified to generate the report 3. Report will be linked to the graph |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | N/A |
| **Exceptions:** | If the report is not generated timely, show error message ‘Please check internet connection’ |
| **Postconditions:** | Report of the statistics will be generated. |
| **Business Rules** | N/A |
| **Assumptions:** | Data entered is sufficient to generate report. |

Table 54: Delete graph

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 8.7 |
| **Use Case Name:** | Delete graph |
| **Actors:** | Admin |
| **Description:** | Admin will be able to delete the graph history generated time to time. |
| **Trigger:** | Admin will tap on the ‘Delete graph’ button. |
| **Level:** | Medium |
| **Preconditions:** | Graph is generated by the admin. |
| **Includes:** | UC – 8.5 |
| **Normal Flow:** | 1. Admin will go to graphs 2. Admin will select the graph to be deleted. 3. Admin will click on ‘Delete graph’ present infron of the graph. 4. Admin will confirm by ‘Yes’ to delete. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | If admin chooses ‘No’, graph will not be deleted. |
| **Exceptions:** | N/A |
| **Postconditions:** | Graph will be deleted by the admin. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 55: Delete report

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 8.8 |
| **Use Case Name:** | Delete report |
| **Actors:** | Admin |
| **Description:** | Admin will be able to delete the report history generated time to time. |
| **Trigger:** | Admin will tap on the ‘Delete report’ button. |
| **Level:** | High |
| **Preconditions:** | Report is generated by the admin. |
| **Includes:** | UC – 8.6 |
| **Normal Flow:** | 1. Admin will go to reports 2. Admin will select the report to be deleted. 3. Admin will click on ‘Delete report’ present infront of the report. 4. Admin will confirm by ‘Yes’ to delete. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | If admin chooses ‘No’, report will not be deleted. |
| **Exceptions:** | N/A |
| **Postconditions:** | Report will be deleted by the admin. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

Table 56: Save report

|  |  |
| --- | --- |
| **Use Case ID:** | UC – 8.9 |
| **Use Case Name:** | Save report |
| **Actors:** | Admin |
| **Description:** | Admin will be able to save the report history generated time to time. |
| **Trigger:** | Admin will tap on the ‘Save report’ button. |
| **Level:** | High |
| **Preconditions:** | Report is generated by the admin. |
| **Includes:** | UC – 8.6 |
| **Normal Flow:** | 1. Admin will go to reports 2. Admin will select the report to be saved. 3. Admin will click on ‘save report’ present infront of the report. 4. Admin will confirm by ‘Yes’ to save. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | If admin chooses ‘No’, report will not be saved. |
| **Exceptions:** | N/A |
| **Postconditions:** | Report will be saved and downloaded by the admin. |
| **Business Rules** | N/A |
| **Assumptions:** | N/A |

# Functional Requirements

UC-8.1: Description of FR-1.1.1

|  |  |
| --- | --- |
| **Identifier** | FR-1.1.1 |
| **Title** | Enter Email |
| **Requirement** | The user will enter his email in the given input field. |
| **Source** | User |
| **Rationale** | The system would use this email to register the user so that the user could sign in the system again anytime. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-1.1: Description of FR-1.1.2

|  |  |
| --- | --- |
| **Identifier** | FR-1.1.2 |
| **Title** | Enter Name |
| **Requirement** | The user will enter his name. |
| **Source** | User |
| **Rationale** | Entered name will be used as a user name in the system.. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-1.1: Description of FR-1.1.3

|  |  |
| --- | --- |
| **Identifier** | FR-1.1.3 |
| **Title** | Enter Password |
| **Requirement** | The user will enter his password in the given input field. |
| **Source** | User |
| **Rationale** | The user would choose a password to keep his account secure |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-1.1: Description of FR-1.1.4

|  |  |
| --- | --- |
| **Identifier** | FR-1.1.4 |
| **Title** | Re-enter Password |
| **Requirement** | The user will be asked to re-enter his password for confirmation of the password he entered before. |
| **Source** | User |
| **Rationale** | For the user to confirm the password entered. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-1.1.3 |
| **Priority** | High |

UC-1.1: Description of FR-1.1.5

|  |  |
| --- | --- |
| **Identifier** | FR-1.1.5 |
| **Title** | Email Verification |
| **Requirement** | A confirmation link will be sent on the provided Email to check if the Email provided is valid or not |
| **Source** | User |
| **Rationale** | The Email must be valid to make our system secure and later on it will be used to communicate with the user |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-1.1.1 |
| **Priority** | High |

UC-1.1: Description of FR-1.1.6

|  |  |
| --- | --- |
| **Identifier** | FR-1.1.6 |
| **Title** | Password Validation |
| **Requirement** | To make sure that the password is not weak, we must validate them. |
| **Source** | User |
| **Rationale** | Passwords that are not strong or are short can be broken down easily. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-1.1.3 |
| **Priority** | High |

UC-1.2: Description of FR-1.2.1

|  |  |
| --- | --- |
| **Identifier** | FR-1.2.1 |
| **Title** | Enter Email |
| **Requirement** | The user will enter his email in the given input field. |
| **Source** | User |
| **Rationale** | The system would use this email as a username so that user could sign in the system |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-1.2: Description of FR-1.2.2

|  |  |
| --- | --- |
| **Identifier** | FR-1.2.2 |
| **Title** | Enter Password |
| **Requirement** | The user will enter his password in the given input field. |
| **Source** | User |
| **Rationale** | The user will enter the password whisch was generated while registering. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-1.2: Description of FR-1.2.3

|  |  |
| --- | --- |
| **Identifier** | FR-1.2.3 |
| **Title** | Remember Me |
| **Requirement** | The user will allow the application to remember the login credentials. |
| **Source** | User |
| **Rationale** | Instead of re-entering the credentials again and again user will allow the system to save it for next time. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | Medium |

UC-1.3: Description of FR-1.3.1

|  |  |
| --- | --- |
| **Identifier** | FR-1.3.1 |
| **Title** | Forgot Password |
| **Requirement** | User can reset their password by following the steps sent to them via email |
| **Source** | User |
| **Rationale** | If a user forgets password then he will be able to reset it in order to continue the use of the application |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | Low |

UC-1.3: Description of FR-1.3.2

|  |  |
| --- | --- |
| **Identifier** | FR-1.3.2 |
| **Title** | Email Verification |
| **Requirement** | A confirmation link will be sent on the provided Email to check if the Email provided is valid or not |
| **Source** | User |
| **Rationale** | This Email verification will help the User to recover password |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-1.3.1 |
| **Priority** | High |

UC-1.3: Description of FR-1.3.3

|  |  |
| --- | --- |
| **Identifier** | FR-1.3.3 |
| **Title** | Enter New Password |
| **Requirement** | The user will enter the new password |
| **Source** | User |
| **Rationale** | Old password will be replaced with the new one. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-1.3.1, FR-1.3.2 |
| **Priority** | High |

UC-1.4: Description of FR-1.4.1

|  |  |
| --- | --- |
| **Identifier** | FR-1.4.1 |
| **Title** | View Volunteer History |
| **Requirement** | User will be able to view their Volunteer history |
| **Source** | User |
| **Rationale** | To view the user history of completed and pending tasks. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-1.4: Description of FR-1.4.2

|  |  |
| --- | --- |
| **Identifier** | FR-1.4.2 |
| **Title** | Completed Tasks |
| **Requirement** | User will be able to view the history of their completed tasks. |
| **Source** | User |
| **Rationale** | To show the list of completed tasks by the user. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | FR-1.4.1 |

UC-1.4: Description of FR-1.4.3

|  |  |
| --- | --- |
| **Identifier** | FR-1.4.3 |
| **Title** | Pending Tasks |
| **Requirement** | User will be able to view the list of their pending tasks. |
| **Source** | User |
| **Rationale** | To show the list of pending tasks of the user. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | FR-1.4.1 |

UC-1.5: Description of FR-1.5.1

|  |  |
| --- | --- |
| **Identifier** | FR-1.5.1 |
| **Title** | Change Profile picture |
| **Requirement** | The users will be able to upload a new profile picture if they want. |
| **Source** | User |
| **Rationale** | Users can upload their profile picture |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | Low |

UC-1.5: Description of FR-1.5.2

|  |  |
| --- | --- |
| **Identifier** | FR-1.5.2 |
| **Title** | Crop Profile Picture |
| **Requirement** | The user will be able to crop their profile picture. |
| **Source** | User |
| **Rationale** | To fit the picture in the given frame of the profile picture. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-1.5.1 |
| **Priority** | Low |

UC-1.6: Description of FR-1.6.1

|  |  |
| --- | --- |
| **Identifier** | FR-1.6.1 |
| **Title** | Update Dispaly Name |
| **Requirement** | The user will have the option to update user name which will be displayed on their account. |
| **Source** | User |
| **Rationale** | Users will be able to change the user name. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N\A |
| **Priority** | Low |

UC-1.6: Description of FR-1.6.2

|  |  |
| --- | --- |
| **Identifier** | FR-1.6.2 |
| **Title** | Update Password |
| **Requirement** | If the user wants to update password then there will be an update password option available. |
| **Source** | User |
| **Rationale** | To update existing password. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-1.6: Description of FR-1.6.3

|  |  |
| --- | --- |
| **Identifier** | FR-1.6.3 |
| **Title** | Enter New Password |
| **Requirement** | The user will enter his new password in the given input field. |
| **Source** | User |
| **Rationale** | The user would choose a secure password so that he can sign-in in the system and keep his account secure |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-1.6.2 |
| **Priority** | High |

UC-1.6: Description of FR-1.6.4

|  |  |
| --- | --- |
| **Identifier** | FR-1.6.4 |
| **Title** | Re-enter Password |
| **Requirement** | The user will be asked to re-enter his password in order to make sure the user intended password is correct. |
| **Source** | User |
| **Rationale** | For the user to confirm that whether the password he wanted to enter is correct |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-1.6.2, FR-1.6.3 |
| **Priority** | High |

UC-1.6: Description of FR-1.6.5

|  |  |
| --- | --- |
| **Identifier** | FR-1.6.5 |
| **Title** | Password Validation |
| **Requirement** | To make sure that the passwords are not short or weak, we must validate them. |
| **Source** | User |
| **Rationale** | Passwords that are not strong or are short can be broken down easily. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-1.6.2 |
| **Priority** | High |

UC-1.6: Description of FR-1.6.6

|  |  |
| --- | --- |
| **Identifier** | FR-1.6.6 |
| **Title** | Password Matched Confirmation |
| **Requirement** | Displays a green tick if the user re-enters the same password as before |
| **Source** | User |
| **Rationale** | The user must know that they re-entered the correct password. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-1.6.2, FR-1.6.3 |
| **Priority** | Medium |

UC-1.7: Description of FR-1.7.1

|  |  |
| --- | --- |
| **Identifier** | FR-1.7.1 |
| **Title** | Log Out |
| **Requirement** | The user will be able to logout once they’re done with their purpose.. |
| **Source** | User |
| **Rationale** | To maintain the security. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-1.8: Description of FR-1.8.1

|  |  |
| --- | --- |
| **Identifier** | FR-1.8.1 |
| **Title** | Deletion of User Account |
| **Requirement** | If the user wants to delete his account permanently. |
| **Source** | User |
| **Rationale** | If user wants does not want to use our services any more then he will be able to delete the account from our system |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | Low |

UC-1.8: Description of FR-1.8.2

|  |  |
| --- | --- |
| **Identifier** | FR-1.8.2 |
| **Title** | Confirm Password |
| **Requirement** | I the user wants to delete the account, then user must enter the password |
| **Source** | User |
| **Rationale** | If someone is trying to delete an account then we have to make sure that it’s the user himself. Therefore this check is important |
| **Business Rule (if required)** | N/A |
| FR-1.6.2 | FR-1.8.1 |
| **Priority** | Low |

UC-1.9: Description of FR-1.9.1

|  |  |
| --- | --- |
| **Identifier** | FR-1.9.1 |
| **Title** | View Donation History |
| **Requirement** | User will be able to view their Donation history |
| **Source** | User |
| **Rationale** | To show the user history of donations. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-1.9: Description of FR-1.9.2

|  |  |
| --- | --- |
| **Identifier** | FR-1.9.2 |
| **Title** | Delete Donation History |
| **Requirement** | User will be able to delete their Donation history |
| **Source** | User |
| **Rationale** | To delete the user history of donations. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-1.9.1 |
| **Priority** | High |

UC-2.1: Description of FR-2.1.1

|  |  |
| --- | --- |
| **Identifier** | FR-2.1.1 |
| **Title** | Report Complaint |
| **Requirement** | The manager/user can report complaints regarding app/website. |
| **Source** | User |
| **Rationale** | If the user is facing any problems using the app/website, then he will be able to report it |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | Medium |

UC-2.1: Description of FR-2.1.2

|  |  |
| --- | --- |
| **Identifier** | FR-2.1.2 |
| **Title** | Complaints History |
| **Requirement** | View complaints history |
| **Source** | User/Manager |
| **Rationale** | User/Manager will be able to view complaints history |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | Medium |

UC-2.1: Description of FR-2.1.3

|  |  |
| --- | --- |
| **Identifier** | FR-2.1.3 |
| **Title** | Complaints Resolved |
| **Requirement** | View actions taken against complaints |
| **Source** | User/Manager |
| **Rationale** | User/Manager will be able to view response to complaints |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-2.1.2 |
| **Priority** | Medium |

UC-2.2: Description of FR-2.2.1

|  |  |
| --- | --- |
| **Identifier** | FR-2.2.1 |
| **Title** | View Complaints |
| **Requirement** | Admin will be able to review complaints |
| **Source** | Admin |
| **Rationale** | Admin will be able to know what problems the user are facing. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-2.2: Description of FR-2.2.2

|  |  |
| --- | --- |
| **Identifier** | FR-2.2.2 |
| **Title** | Resolve Complaints |
| **Requirement** | Admin will be able to respond to the reported complaints |
| **Source** | Admin |
| **Rationale** | Admin will resolve the reported complaints. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

**UC-2.3: Description of FR-2.3.1**

|  |  |
| --- | --- |
| **Identifier** | FR-2.3.1 |
| **Title** | Request a Rank |
| **Requirement** | User can apply for Different Ranks. |
| **Source** | User |
| **Rationale** | User can make a request for rank promotion |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | Low |

UC-2.3: Description of FR-2.3.2

|  |  |
| --- | --- |
| **Identifier** | FR-2.3.2 |
| **Title** | Assign Ranks |
| **Requirement** | Admin will be able to assign ranks |
| **Source** | Admin |
| **Rationale** | To promote a user |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-2.3.1 |
| **Priority** | High |

UC-2.3: Description of FR-2.3.3

|  |  |
| --- | --- |
| **Identifier** | FR-2.3.3 |
| **Title** | View Rank Status |
| **Requirement** | To show the user their rank status |
| **Source** | User |
| **Rationale** | To see the rank status |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-2.4: Description of FR-2.4.1

|  |  |
| --- | --- |
| **Identifier** | FR-2.4.1 |
| **Title** | Demoting of user |
| **Requirement** | Manager can apply for demotion, If he wants |
| **Source** | Manager |
| **Rationale** | Manager can make a request for rank demotion. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | Low |

UC-2.4: Description of FR-2.5.1

|  |  |
| --- | --- |
| **Identifier** | FR-2.5.1 |
| **Title** | View Donations |
| **Requirement** | Admin will be able to see the donations history |
| **Source** | Admin |
| **Rationale** | To review the donations history |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | Medium |

UC-2.4: Description of FR-2.5.2

|  |  |
| --- | --- |
| **Identifier** | FR-2.5.2 |
| **Title** | View Transactions |
| **Requirement** | Admin can view the transactions history |
| **Source** | Admin |
| **Rationale** | To see transactions history |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-2.4: Description of FR-2.5.3

|  |  |
| --- | --- |
| **Identifier** | FR-2.5.3 |
| **Title** | Generate Transactions Report |
| **Requirement** | Admin can generate transactions report |
| **Source** | Admin |
| **Rationale** | In order to maintain records, Admin can generate the transactions report |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-2.5.1 |
| **Priority** | Low |

UC-2.4: Description of FR-2.5.4

|  |  |
| --- | --- |
| **Identifier** | FR-2.5.4 |
| **Title** | Print Transactions Report |
| **Requirement** | Admin can print transactions report |
| **Source** | Admin |
| **Rationale** | In order to maintain records, Admin can print the transactions report |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-2.5.2 |
| **Priority** | Low |

UC-2.6: Description of FR-2.6.1

|  |  |
| --- | --- |
| **Identifier** | FR-2.6.1 |
| **Title** | Review Tasks |
| **Requirement** | Admin can review the tasks history |
| **Source** | Admin |
| **Rationale** | Admin can review the list of tasks that are in progress. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-2.7: Description of FR-2.7.1

|  |  |
| --- | --- |
| **Identifier** | FR-2.7.1 |
| **Title** | Suspend User |
| **Requirement** | Admin will be able to suspend a user |
| **Source** | Admin |
| **Rationale** | Admin can suspend a user account due to some malicious activity flagged by the admin or a complaint against the user |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | Low |

UC-2.7: Description of FR-2.7.2

|  |  |
| --- | --- |
| **Identifier** | FR-2.7.2 |
| **Title** | Suspend Manager |
| **Requirement** | Admin will be able to suspend a Manager |
| **Source** | Admin |
| **Rationale** | Admin can suspend a user account due to some malicious activity flagged by the admin or a complaint against the manager |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | Low |

UC-2.8: Description of FR-2.8.1

|  |  |
| --- | --- |
| **Identifier** | FR-2.8.1 |
| **Title** | Generate Donations Report |
| **Requirement** | Admin can generate donations report |
| **Source** | Admin |
| **Rationale** | In order to maintain records, Admin can generate the donations report |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | Low |

UC-2.8: Description of FR-2.8.2

|  |  |
| --- | --- |
| **Identifier** | FR-2.8.2 |
| **Title** | Print Donations Report |
| **Requirement** | Admin can print donations report |
| **Source** | Admin |
| **Rationale** | In order to maintain records, Admin can print the Donations report |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | Low |

UC-3.1.1: Description of FR-3.1.1.1

|  |  |
| --- | --- |
| **Identifier** | FR-3.1.1.1 |
| **Title** | Post Tasks |
| **Requirement** | Managers can post tasks regarding a specific are |
| **Source** | Manager |
| **Rationale** | To post new tasks |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-3.1.1: Description of FR-3.1.1.2

|  |  |
| --- | --- |
| **Identifier** | FR-3.1.1.2 |
| **Title** | Select Task location |
| **Requirement** | Manager will select a task location |
| **Source** | Manager |
| **Rationale** | To select a specific area for tasks |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-3.1.1.1 |
| **Priority** | High |

UC-3.1.1: Description of FR-3.1.1.3

|  |  |
| --- | --- |
| **Identifier** | FR-3.1.1.3 |
| **Title** | Select Task date/time |
| **Requirement** | Managers will post a deadline of a specific task |
| **Source** | Manager |
| **Rationale** | To maintain tasks schedule |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-3.1.1.1 |
| **Priority** | High |

UC-3.1.1: Description of FR-3.1.1.4

|  |  |
| --- | --- |
| **Identifier** | FR-3.1.1.4 |
| **Title** | No,of volunteers required |
| **Requirement** | Manager will post no. of volunteers required for the task |
| **Source** | Manager |
| **Rationale** | To show volunteer vacancies |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-3.1.1.1 |
| **Priority** | High |

UC-3.1.2: Description of FR-3.1.2.1

|  |  |
| --- | --- |
| **Identifier** | FR-3.1.2.1 |
| **Title** | Apply for volunteer work |
| **Requirement** | Users will apply for volunteer work |
| **Source** | User |
| **Rationale** | Users can apply for volunteer work, If they have no tasks pending |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-3.1.2: Description of FR-3.1.2.2

|  |  |
| --- | --- |
| **Identifier** | FR-3.1.2.2 |
| **Title** | Check Volunteer status |
| **Requirement** | Manager will check the volunteer status |
| **Source** | Manager |
| **Rationale** | To make sure that there are no pending tasks of the user |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-3.1.2.1 |
| **Priority** | High |

UC-3.1.3: Description of FR-3.1.3.1

|  |  |
| --- | --- |
| **Identifier** | FR-3.1.3.1 |
| **Title** | Volunteer Request List |
| **Requirement** | Manager can receive volunteer requests |
| **Source** | Manager |
| **Rationale** | Manager will respond to volunteer requests |
| **Business Rule (if required)** | **N/A** |
| **Dependencies** | FR-3.1.2.1 |
| **Priority** | High |

UC-3.1.3: Description of FR-3.1.3.2

|  |  |
| --- | --- |
| **Identifier** | FR-3.1.3.2 |
| **Title** | Approve Volunteer Request |
| **Requirement** | Manager will assign volunteer work |
| **Source** | Manager |
| **Rationale** | To assign new jobs to volunteer |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-3.1.2.1 |
| **Priority** | High |

UC-3.1.3: Description of FR-3.1.3.3

|  |  |
| --- | --- |
| **Identifier** | FR-3.1.3.3 |
| **Title** | Deny Volunteer Request |
| **Requirement** | Manager can Deny volunteer work |
| **Source** | Manager |
| **Rationale** | If the volunteer tasks of any user are already pending. Then no new tasks will be assigned . |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-3.1.2.1 |
| **Priority** | High |

UC-3.1.4: Description of FR-3.1.4.1

|  |  |
| --- | --- |
| **Identifier** | FR-3.1.4.1 |
| **Title** | Edit Tasks |
| **Requirement** | Managers can edit tasks regarding a specific are |
| **Source** | Manager |
| **Rationale** | To edit tasks whereabouts |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-3.1.4: Description of FR-3.1.4.2

|  |  |
| --- | --- |
| **Identifier** | FR-3.1.4.2 |
| **Title** | Edit Task location |
| **Requirement** | Manager can edit task location |
| **Source** | Manager |
| **Rationale** | To edit area for tasks |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-3.1.4.1 |
| **Priority** | High |

UC-3.1.4: Description of FR-3.1.4.3

|  |  |
| --- | --- |
| **Identifier** | FR-3.1.4.3 |
| **Title** | Edit Task date/time |
| **Requirement** | Managers can edit the deadline of a specific task |
| **Source** | Manager |
| **Rationale** | To edit tasks schedule |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-3.1.4.1 |
| **Priority** | High |

UC-3.1.4: Description of FR-3.1.4.4

|  |  |
| --- | --- |
| **Identifier** | FR-3.1.4.4 |
| **Title** | Edit No,of volunteers required |
| **Requirement** | Manager can edit no. of volunteers required for the task |
| **Source** | Manager |
| **Rationale** | To updates no. of volunteers required |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-3.1.4.1 |
| **Priority** | High |

UC-3.2.1: Description of FR-3.2.1.1

|  |  |
| --- | --- |
| **Identifier** | FR-3.2.1.1 |
| **Title** | Assign Volunteer Job |
| **Requirement** | Manager will assign volunteer work |
| **Source** | Manager |
| **Rationale** | To assign new jobs to volunteer |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-1.20.1 |
| **Priority** | High |

UC-3.2.2: Description of FR-3.2.2.1

|  |  |
| --- | --- |
| **Identifier** | FR-3.2.2.1 |
| **Title** | Update task details |
| **Requirement** | Manager can update tasks whereabouts |
| **Source** | Manager |
| **Rationale** | To updates descriptions of task |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-3.2.1.1 |
| **Priority** | High |

UC-3.2.2: Description of FR-3.2.1.2

|  |  |
| --- | --- |
| **Identifier** | FR-3.2.1.2 |
| **Title** | Save task details |
| **Requirement** | Manager will save tasks details |
| **Source** | Manager |
| **Rationale** | To save descriptions of task |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-3.2.2.1 |
| **Priority** | High |

UC-3.2.3: Description of FR-3.2.3.1

|  |  |
| --- | --- |
| **Identifier** | FR-3.2.3.1 |
| **Title** | Send Message to user |
| **Requirement** | Manager can send messages to user |
| **Source** | Manager |
| **Rationale** | To enhance communication between user and manager |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-3.2.3: Description of FR-3.2.3.2

|  |  |
| --- | --- |
| **Identifier** | FR-3.2.3.1 |
| **Title** | Send Message to manager |
| **Requirement** | User can send messages to Manager |
| **Source** | Manager |
| **Rationale** | To enhance communication between user and manager |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-3.2.3: Description of FR-3.2.3.3

|  |  |
| --- | --- |
| **Identifier** | FR-3.2.3.3 |
| **Title** | Start group chat |
| **Requirement** | Manager can have a group chat with users |
| **Source** | Manager |
| **Rationale** | To enhance communication between users and manager |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-3.2.4: Description of FR-3.2.4.1

|  |  |
| --- | --- |
| **Identifier** | FR-3.2.4.1 |
| **Title** | Dismiss user |
| **Requirement** | Manager can dismiss a user |
| **Source** | Manager |
| **Rationale** | Manager will be able to dismiss a user on behalf of their previous work |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | Low |

UC-3.2.4: Description of FR-3.2.4.2

|  |  |
| --- | --- |
| **Identifier** | FR-3.2.4.2 |
| **Title** | Request dismissal |
| **Requirement** | User can request dismissal, if they are not available for the task |
| **Source** | User |
| **Rationale** | If a user does not want to participate in any task, then he can request own dismissal. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | Low |

UC-3.2.5: Description of FR-3.2.5.1

|  |  |
| --- | --- |
| **Identifier** | FR-3.2.5.1 |
| **Title** | Leave volunteer team |
| **Requirement** | User can leave the volunteer team anytime |
| **Source** | User |
| **Rationale** | If a user wants to leave the team, then he will be able to do so. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | Low |

UC-3.2.6: Description of FR-3.2.6.1

|  |  |
| --- | --- |
| **Identifier** | FR-3.2.6.1 |
| **Title** | Task Updates |
| **Requirement** | User will send task updates to manager |
| **Source** | User |
| **Rationale** | To keep manager tuned about task progress |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-3.2.6: Description of FR-3.2.6.2

|  |  |
| --- | --- |
| **Identifier** | FR-3.2.6.2 |
| **Title** | Upload Image |
| **Requirement** | User can upload image of task |
| **Source** | User |
| **Rationale** | To show manager the task progress |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-3.2.6: Description of FR-3.2.6.3

|  |  |
| --- | --- |
| **Identifier** | FR-3.2.6.3 |
| **Title** | Mark Done |
| **Requirement** | Manager will mark the job Done |
| **Source** | Manager |
| **Rationale** | To mark completion of the job |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-3.2.6.1, FR-3.2.6.2 |
| **Priority** | High |

UC-3.2.6: Description of FR-3.2.6.4

|  |  |
| --- | --- |
| **Identifier** | FR-3.2.6.4 |
| **Title** | Mark Incomplete |
| **Requirement** | Manager can mark the job incomplete |
| **Source** | Manager |
| **Rationale** | To mark incompletion of the job |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-1.27.1, FR-1.27.2 |
| **Priority** | High |

**UC-4.1: Description of FR-4.1.1**

|  |  |
| --- | --- |
| **Identifier** | FR-4.1.1 |
| **Title** | Donation Type |
| **Requirement** | The user will select a donation type |
| **Source** | User |
| **Rationale** | User will be having multiple choices for donation types |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-4.1: Description of FR-4.1.2

|  |  |
| --- | --- |
| **Identifier** | FR-4.1.2 |
| **Title** | Donate Raashan |
| **Requirement** | If donor wants to donate Raashan, then he can select this option |
| **Source** | User |
| **Rationale** | User will have the option to donate Raashan |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-4.1.1 |
| **Priority** | High |

UC-4.1: Description of FR-4.1.3

|  |  |
| --- | --- |
| **Identifier** | FR-4.1.2 |
| **Title** | Donate Clothes |
| **Requirement** | If donor wants to donate Clothes, then he can select this option |
| **Source** | User |
| **Rationale** | User will have the option to donate Clothes |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-4.1.1 |
| **Priority** | High |

UC-4.1: Description of FR-4.1.4

|  |  |
| --- | --- |
| **Identifier** | FR-4.1.4 |
| **Title** | Education Fund |
| **Requirement** | If donor wants to Fund an education, then he can select this option |
| **Source** | User |
| **Rationale** | User will have the option to Fund an education |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-4.1.1 |
| **Priority** | High |

UC-4.2: Description of FR-4.2.1

|  |  |
| --- | --- |
| **Identifier** | FR-4.2.1 |
| **Title** | Donate |
| **Requirement** | User will make a donation |
| **Source** | User |
| **Rationale** | Make donation |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-4.2: Description of FR-4.2.2

|  |  |
| --- | --- |
| **Identifier** | FR-4.2.2 |
| **Title** | Organization Type |
| **Requirement** | User will select an organization of their choice, To which they want to make a donation |
| **Source** | User |
| **Rationale** | User can select the Organization of their choice |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-4.2.1 |
| **Priority** | High |

UC-4.3: Description of FR-4.3.1

|  |  |
| --- | --- |
| **Identifier** | FR-4.3.1 |
| **Title** | Donation Amount |
| **Requirement** | Users can enter the amount of their choice, which they want to donate. |
| **Source** | User |
| **Rationale** | User will enter donation amount |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-4.2.1 |
| **Priority** | High |

UC-4.1: Description of FR-4.1.4

|  |  |
| --- | --- |
| **Identifier** | FR-4.1.4 |
| **Title** | Confirm Amount |
| **Requirement** | User will receive a confirmation message on screen. |
| **Source** | User |
| **Rationale** | To make sure that the user did not enter the wrong amount |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-4.3.1 |
| **Priority** | High |

UC-4.4: Description of FR-4.4.1

|  |  |
| --- | --- |
| **Identifier** | FR-4.4.1 |
| **Title** | Transaction Method |
| **Requirement** | User can select a transaction method, whether they want to transact through card or E-paisa. |
| **Source** | User |
| **Rationale** | User will Select transaction method |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-4.2.1 |
| **Priority** | High |

UC-4.4: Description of FR-4.4.2

|  |  |
| --- | --- |
| **Identifier** | FR-4.4.2 |
| **Title** | Card transaction |
| **Requirement** | User will select card transaction |
| **Source** | User |
| **Rationale** | To make transaction through card |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-4.4.1 |
| **Priority** | High |

UC-4.4: Description of FR-4.4.3

|  |  |
| --- | --- |
| **Identifier** | FR-4.4.3 |
| **Title** | Select card type |
| **Requirement** | User will select card type |
| **Source** | User |
| **Rationale** | To ensure which type of card user have |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-4.4.2 |
| **Priority** | High |

UC-4.4: Description of FR-4.4.4

|  |  |
| --- | --- |
| **Identifier** | FR-4.4.4 |
| **Title** | Enter Account |
| **Requirement** | User will enter their account number |
| **Source** | User |
| **Rationale** | To ensure user’s account number, from which he wants to donate amount. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-4.4.2 |
| **Priority** | High |

UC-4.4: Description of FR-4.4.5

|  |  |
| --- | --- |
| **Identifier** | FR-4.4.5 |
| **Title** | Enter Card Expiry date |
| **Requirement** | User has to enter card expiry number |
| **Source** | User |
| **Rationale** | To ensure whether the card is expired or in service. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-4.4.2 |
| **Priority** | High |

UC-4.4: Description of FR-4.4.6

|  |  |
| --- | --- |
| **Identifier** | FR-4.4.6 |
| **Title** | Enter CVV code |
| **Requirement** | User has to enter card’s CVV code |
| **Source** | User |
| **Rationale** | To ensure whether the card used is valid or not |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-4.4.2 |
| **Priority** | High |

UC-4.4: Description of FR-4.4.7

|  |  |
| --- | --- |
| **Identifier** | FR-4.4.7 |
| **Title** | E-paisa Transaction |
| **Requirement** | User can select easypaisa transaction mode |
| **Source** | User |
| **Rationale** | User will be able to transact through E-paisa account |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-4.4.1 |
| **Priority** | High |

UC-4.4: Description of FR-4.4.8

|  |  |
| --- | --- |
| **Identifier** | FR-4.4.8 |
| **Title** | Enter E-paisa number |
| **Requirement** | User will enter their E-paisa account number |
| **Source** | User |
| **Rationale** | Easypaisa transaction |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-4.4.7 |
| **Priority** | High |

UC-4.4: Description of FR-4.4.9

|  |  |
| --- | --- |
| **Identifier** | FR-4.4.8 |
| **Title** | Enter E-paisa pin |
| **Requirement** | User will enter their E-paisa password |
| **Source** | User |
| **Rationale** | To ensure that the number entered by the user belongs to him |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-4.4.8 |
| **Priority** | High |

UC-4.5: Description of FR-4.5.1

|  |  |
| --- | --- |
| **Identifier** | FR-4.5.1 |
| **Title** | Confirm Transaction |
| **Requirement** | User will receive a confirmation message on screen. |
| **Source** | User |
| **Rationale** | To make sure that the user did not make any mistake |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-4.2.1 |
| **Priority** | High |

UC-4.5: Description of FR-4.5.2

|  |  |
| --- | --- |
| **Identifier** | FR-4.5.2 |
| **Title** | Transaction Successful |
| **Requirement** | User will receive a transaction confirmation message on screen. |
| **Source** | User |
| **Rationale** | To let the user know that the amount has been transferred |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-4.5.1 |
| **Priority** | High |

UC-4.6: Description of FR-4.6.1

|  |  |
| --- | --- |
| **Identifier** | FR-4.6.1 |
| **Title** | Send Message to NGO |
| **Requirement** | User can send messages to NGO |
| **Source** | User |
| **Rationale** | To enhance communication between user and NGO’s |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-4.6: Description of FR-4.6.2

|  |  |
| --- | --- |
| **Identifier** | FR-4.6.2 |
| **Title** | Send Message to User |
| **Requirement** | NGO can send messages to User |
| **Source** | NGO |
| **Rationale** | To enhance communication between user and NGO’s |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-4.7: Description of FR-4.7.1

|  |  |
| --- | --- |
| **Identifier** | FR-4.7.1 |
| **Title** | Update Recipent |
| **Requirement** | NGO’s can update recipient’s details |
| **Source** | NGO |
| **Rationale** | To validate recipients details |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-4.7: Description of FR-4.7.2

|  |  |
| --- | --- |
| **Identifier** | FR-4.7.2 |
| **Title** | Change recipient name |
| **Requirement** | NGO can update recipient’s name |
| **Source** | NGO |
| **Rationale** | To keep record that who actually received the donation |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-4.7.1 |
| **Priority** | High |

UC-4.7: Description of FR-4.7.3

|  |  |
| --- | --- |
| **Identifier** | FR-4.7.3 |
| **Title** | Items received by recipient |
| **Requirement** | NGO will keep record of items that have been donated |
| **Source** | NGO |
| **Rationale** | To keep record of donated items to the recipient. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-4.7.1 |
| **Priority** | High |

UC-4.7: Description of FR-4.7.4

|  |  |
| --- | --- |
| **Identifier** | FR-4.7.4 |
| **Title** | Update Record |
| **Requirement** | NGO will update record of recipient |
| **Source** | NGO |
| **Rationale** | To update record of recipients. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-4.7.1 |
| **Priority** | High |

UC-6.1: Description of FR-6.1.1

|  |  |
| --- | --- |
| **Identifier** | FR-6.1.1 |
| **Title** | Green Store |
| **Requirement** | Manager will have the option to visit green store, to buy products from store using donated amount |
| **Source** | Manager |
| **Rationale** | To buy suitable products for donation |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-6.1: Description of FR-6.1.2

|  |  |
| --- | --- |
| **Identifier** | FR-6.1.2 |
| **Title** | View Products list |
| **Requirement** | Manager will have the option to view available products |
| **Source** | Manager |
| **Rationale** | To buy suitable products for donation |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-6.1: Description of FR-6.2.1

|  |  |
| --- | --- |
| **Identifier** | FR-6.2.1 |
| **Title** | Add to Cart |
| **Requirement** | Manager will select a suitable product and add it to cart |
| **Source** | Manager |
| **Rationale** | To add products to shopping cart |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-6.1.1 |
| **Priority** | High |

UC-6.1: Description of FR-6.2.2

|  |  |
| --- | --- |
| **Identifier** | FR-6.2.2 |
| **Title** | Product Quantity |
| **Requirement** | Manager will select the quantity of products |
| **Source** | Manager |
| **Rationale** | To add right quantity of products to the cart |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-6.2.1 |
| **Priority** | High |

UC-6.3: Description of FR-6.3.1

|  |  |
| --- | --- |
| **Identifier** | FR-6.3.1 |
| **Title** | View Cart |
| **Requirement** | Manager will go to cart to see the list of products added in cart. |
| **Source** | Manager |
| **Rationale** | To view list of products added to cart |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-6.4: Description of FR-6.4.1

|  |  |
| --- | --- |
| **Identifier** | FR-6.4.1 |
| **Title** | Update cart |
| **Requirement** | Manager will select update cart, in order to update selected products |
| **Source** | Manager |
| **Rationale** | To update products of shopping cart |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-6.1.1 |
| **Priority** | High |

UC-6.4: Description of FR-6.4.2

|  |  |
| --- | --- |
| **Identifier** | FR-6.4.2 |
| **Title** | Remove Product |
| **Requirement** | Manager will remove un-necessary items from cart |
| **Source** | Manager |
| **Rationale** | To ensure that right products are added in the cart |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-6.4.1 |
| **Priority** | High |

UC-6.5: Description of FR-6.5.1

|  |  |
| --- | --- |
| **Identifier** | FR-6.5.1 |
| **Title** | Proceed to checkout |
| **Requirement** | Manager will proceed to checkout after he’s done buying products |
| **Source** | Manager |
| **Rationale** | To enter whereabouts for the delivery |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-6.1.1 |
| **Priority** | High |

UC-6.4: Description of FR-6.4.2

|  |  |
| --- | --- |
| **Identifier** | FR-6.4.2 |
| **Title** | Address of delivery |
| **Requirement** | Manager will enter delivery address |
| **Source** | Manager |
| **Rationale** | To deliver products on the right address |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-6.5.1 |
| **Priority** | High |

UC-6.6: Description of FR-6.6.1

|  |  |
| --- | --- |
| **Identifier** | FR-6.5.1 |
| **Title** | Payment |
| **Requirement** | Manager will select mode of payment for billing |
| **Source** | Manager |
| **Rationale** | To pay for the products buyed. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-6.1.1 |
| **Priority** | High |

UC-6.6-: Description of FR-6.6.2

|  |  |
| --- | --- |
| **Identifier** | FR-6.6.2 |
| **Title** | Card transaction |
| **Requirement** | Manager will select card transaction |
| **Source** | Manager |
| **Rationale** | To make transaction through card |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-6.1.1 |
| **Priority** | High |

UC-6.6: Description of FR-6.6.3

|  |  |
| --- | --- |
| **Identifier** | FR-6.6.3 |
| **Title** | Select card type |
| **Requirement** | Manager will select card type |
| **Source** | User |
| **Rationale** | To ensure which type of card user have |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-6.1.1 |
| **Priority** | High |

UC-6.6: Description of FR-6.6.4

|  |  |
| --- | --- |
| **Identifier** | FR-6.6.4 |
| **Title** | Enter Account |
| **Requirement** | Manager will enter their account number |
| **Source** | Manager |
| **Rationale** | To ensure user’s account number, from which he wants to donate amount. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-6.1.1 |
| **Priority** | High |

UC-6.6: Description of FR-6.6.5

|  |  |
| --- | --- |
| **Identifier** | FR-6.6.5 |
| **Title** | Enter Card Expiry date |
| **Requirement** | Manager has to enter card expiry number |
| **Source** | Manager |
| **Rationale** | To ensure whether the card is expired or in service. |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-6.1.1 |
| **Priority** | High |

UC-6.6: Description of FR-6.6.6

|  |  |
| --- | --- |
| **Identifier** | FR-6.6.6 |
| **Title** | Enter CVV code |
| **Requirement** | Manager has to enter card’s CVV code |
| **Source** | Manager |
| **Rationale** | To ensure whether the card used is valid or not |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-6.1.1 |
| **Priority** | High |

UC-6.6: Description of FR-6.6.7

|  |  |
| --- | --- |
| **Identifier** | FR-6.6.7 |
| **Title** | E-paisa Transaction |
| **Requirement** | Manager can select E-paisa transaction mode |
| **Source** | Manager |
| **Rationale** | Manager will be able to transact through E-paisa account |
| **Business Rule (if required)** | N/A |
| **Dependencies** | N/A |
| **Priority** | High |

UC-6.6: Description of FR-6.6.8

|  |  |
| --- | --- |
| **Identifier** | FR-6.6.8 |
| **Title** | Enter E-paisa number |
| **Requirement** | Manager will enter their E-paisa account number |
| **Source** | Manager |
| **Rationale** | E-paisa transaction |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-6.1.1 |
| **Priority** | High |

UC-6.6: Description of FR-6.6.9

|  |  |
| --- | --- |
| **Identifier** | FR-6.6.9 |
| **Title** | Enter E-paisa pin |
| **Requirement** | Manager will enter their E-paisa password |
| **Source** | Manager |
| **Rationale** | To ensure that the number entered by the user belongs to him |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-6.1.1 |
| **Priority** | High |

UC-6.7: Description of FR-6.7.1

|  |  |
| --- | --- |
| **Identifier** | FR-6.7.1 |
| **Title** | Confirm Payment |
| **Requirement** | Manager will confirm payment |
| **Source** | Manager |
| **Rationale** | Confirmation of payment |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-6.6.1 |
| **Priority** | High |

UC-6.7: Description of FR-6.7.2

|  |  |
| --- | --- |
| **Identifier** | FR-6.7.2 |
| **Title** | Deny Payment |
| **Requirement** | Manager can cancel payment, if he wants. (The order will be cancelled) |
| **Source** | Manager |
| **Rationale** | To cancel order |
| **Business Rule (if required)** | N/A |
| **Dependencies** | FR-6.6.1 |
| **Priority** | High |

# Non-Functional Requirements

Following are the Non-functional requirements of Paigham:

## Performace

The NFRs related to the performance of Paigham are:

**PER-1:** Paigham will be a very responsive app with a response time of less than 1s.

**PER-2:** The number of users of Paigham will be limited to 99999

## Responsiveness

Paigham will be a responsive application. If the user will be using the application and gets interrupted by call, the application will return back to its state after the call is ended

## Screen adaption

Layout of the Paigham app will be rendered to different screen sizes covering from (3.0-6.95 inches) This is because of varied screen sizes of mobile phones nowadays.

## Availability

The NFRs related to the availability of Paigham are:

**AVA-1:** Paigham will be available in the Google Play Store.

**AVA-2:** Paigham will be available 24/7 with no time restrictions.

## Reliability

The NFRs related to the reliability of Paigham are:

**REL-1:** Paigham will provide reliable Moqsues locations.  
**REL-2:** Authentic and reliable news and accouncements will be provided by the feed of Paigham.

## Useability

The NFRs related to the useability of Paigham are:

**USE-1:** The home page of Paigham will be very user-friendly for a new user so the user can understand and use the application.

**USE-2:** Chat system of Paigham will be very simple and attractive.

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# External Interface Requirements

## User Interfaces

## Software Interfaces

Fronend for web admin panel will be in ReactJs where as backend will be in NodeJs. For mobile app, Flutter will be used. The application will communicate with node server and will use synch API for audio chat.

## Hardware Interfaces

N/A

## Communication Interfaces

The application will communicate with NodeJS server using the HTTP protocol.

# Project Gantt Chart

Chart, timeline, box and whisker chart

Description automatically generated

Figure 1: Gant Chart of Paigham

# Conclusion

This document enscapsulates all the software requirements and UML diagrams for the design and development of Paigham app which will be a community-based socio-Islamic app. All functional and non-functional requirements have been added in this SRS. User interfaces have been added to facilitate the designing process which will make it more responsive and user-friendly.

# References

* <https://pub.dev/packages/audioplayers>
* <https://stackoverflow.com/questions/59924840/how-to-connect-flutter-with-mongodb>
* <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, text, application

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDyRXhpZgAATU0AKgAAAAgABAE7AAIAAAANAAAISodpAAQAAAABAAAIWJydAAEAAAAaAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFRhaGEgQnVraGFyaQAAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzEyAACSkgACAAAAAzEyAADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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