**USE CASES**

1. **Name**: Registering via gmail

**Actor**: User

**Goal**: Registering the user on the system

**Precondition**: The application should be installed on the user’s mobile phone.

**Description**: After installing the application, the user should first create an account by registering via gmail to use the application. After entering all the details including the email address, a confirmation link will be sent to the email address.

**Postcondition**: New entry of the new user is added in the database. And the new user will be able to use the features of the system after registering.

**Alternate Flow**: 1. The email address entered has already been used for registration.

2. Username selected is already taken up.

3. Password entered does not fulfil the requirements or does not match

with the password entered earlier.

4. No confirmation mail received.

2. **Name**: Registering via mobile number

**Actor:** User

**Goal**: Registering the user on the system

**Precondition**: The application should be installed on the user’s mobile phone.

**Description**: User can also make an account by linking the application to the mobile number itself. OTP will be sent to the entered mobile number. This OTP should be entered for successful creation of account.

**Postcondition**: New entry of the new user is added in the database. And the new user will be able to use the features of the system after registering.

**Alternate Flow:** 1. Invalid mobile number entered.

2. Mobile number entered is already used.

3. Username selected is already taken up.

4. OTP entered does not match the OTP which is sent.

**3. Name:** Login

**Actor**: User

**Goal:** Sign up by the user on the system

**Precondition**: User should have registered on the system before login.

**Description**: The user needs to first login the application before using it. But logging in every time user wants to use the application increases the response time. So in our application user has to login only once and he will stay signed in forever.

**Postcondition:** The features of the application are now available to the user.

**Alternate Flow:** 1. Mobile number or email address entered is not valid.

2. Incorrect password entered.

4. **Name**: Information storing

**Actor**: User, InfoDB

**Goal**: Storing the information provided by the user like emergency contact numbers, blood group etc.

**Precondition:** User should have an account on the application and he should be logged in before entering any details.

**Description**: In this use case the user provides information to the system. The information includes contact numbers of family members which can be used to contact in any emergency situation. The system can also store the blood group of the user, any past medical situations user has been through etc.

**Postcondition:** The data entered by the user is stored in database.

**Alternate Flow:** 1. All the mandatory fields are not filled.

**5. Name**: Application activation

**Actor**: User

**Goal**: Activation of application in any emergency situation

**Precondition**: User must be logged in before activating the application. Also the emergency contact numbers should be saved beforehand.

**Description**: This use case begins when the user activates the application by clicking on the emergency button. After the application is activated, it start capturing the GPS location of the user. The system also captures photos and videos. These all information are stored on the system and also sent to the emergency contact numbers and to the nearby hospital. So this use case involves activating the system, capturing of GPS location and photos, and then sending this information.

**Postcondition:** After activating the application will start capturing GPS location, photos and videos. The application will also search for the nearby hospital and and will send message to the hospital and to the emergency contact list. The information captured will also be sent via message.

**Alternate Flow:** 1. Mobile phone hangs off

2. Mobile phone switched off.

3. OTP entered by the user after clicking the emergency button.

6. **Name**: Selecting the user

**Actor:** User

**Goal:** Selecting the user for whom to call emergency service

**Precondition:** User must be logged in before activating the application. Also the emergency contact numbers should be saved beforehand.

**Description:** This use case is used when the user has to select for whom he is calling the emergency service. Two options will be available whether for himself or for any other person. This option is available immediately after opening the application normally( that is not by clicking the emergency button).

**Postcondition:** If the user wants the emergency service for some other person then the system will ask the user to enter the location where the service is needed. Otherwise if the user wants the service for himself then the current location of the user is captured.

**Alternate Flow:**

7. **Name**: Selecting the emergency service

**Actor:** User

**Goal:** Selecting the emergency service which is required

**Precondition:** The user for whom the help is required should have been selected and the location should be entered if the user does not want the service for himself. **Description:** In this use case user has to select which emergency help service is needed. The user can select more than one emergency service at one time.

**Postcondition:** The contact number of nearby help services will be displayed. The user can choose whichever hospital or police station he wants to call or send message to.

**Alternate Flow:**

8. **Name**: Calling hospital

**Actor**: User

**Goal**: Getting the information about the nearby hospital

**Precondition:** The user must be logged in. Mobile phone should have internet connection. And the user must have selected for whom he wants the emergency service and also which emergency service he wants.

**Description**: This use case is used in situations where the user does not want the emergency help for himself but for some other person. The system will search for the nearby hospital according to the entered location. List of nearby hospitals will be displayed and you can select to which hospital you want to send the message to. The entered location is sent along with the message. Contact number of the hospital will also be shown so that you can contact them directly.

**Postcondition:** Message will be sent to the chosen emergency service.

**Alternate Flow:**

9. **Name**: Calling police station

**Actor**: User

**Goal**: Manually calling the police station

**Precondition:** The user must be logged in. Mobile phone should have internet connection.

**Description**: This is used when the user wants to call police station. Calling the police station in the emergency situations which we are addressing is not that important at the time of the emergency. So we have not kept the feature of contacting the police station on clicking the emergency button. Contact to the police station is made manually. The system just searches the nearby police stations and sent them message. The message will also contain the GPS location you have entered or your current GPS location.

10. **Name:** Calling fire station

**Actor**: User

**Goal**: Contacting the fire station

**Precondition:** The user must be logged in. Mobile phone should have internet connection.

**Description**: Calling the fire station is same as calling the police station. After selecting the fire station option you have to enter the location. The system will search for nearby fire stations and the result is shown.

