**Project Proposal**

**OOSE**

**Submitted To:** Sir Mukhtiar Zamin

**Submitted By:** Shiza Kabir

(SP20-BSE-081)

Rameen Naeem

(SP20-BSE-057)

Date: 3-10-21

**Project Title:**

**Personal Safety App**

**(Stay Safe)**

**Introduction:**

The same widely spread internet network can be utilized to help out people in need of emergency. This android based safety application proposed here aims at raising alerts & send message with location if anyone is facing any emergency in the form of any threat from someone, health emergency, accidental emergency.

Safety for people is one of the most pressing issues of our time that should have been a fundamental, undeniable concept for any civilized society centuries ago. The need for a safety app is, unfortunately, increasing in the current societies across the world. One of the biggest roles that have been played in ensuring the safety of people, has to be the digital transformation and advancement in technology. Especially in the world where 3 out of every 5 people have smartphones and use dozens of mobile apps every day.

Our Application helps user in case of any emergency or mishap by sending an emergency message to their closed ones. Users of Safety app can send threat alerts to the contacts added with the location in the app. This app will provide user a quick message button which will send an emergency notification to the added contacts with location URL.

This is user-friendly application that can be accessed by anyone who has installed it in their smart phones. Our intention is to provide you with fastest and simplest way to contact your nearest help.

* The user can add his important contacts in the system whom he wants to inform in case of emergency.
* The user can send alerts through this application in the form message with location indicating an emergency.

In this way, this android-based safety application can help a group of people stay connected & help each other in case of any emergency in the least time possible.

**Vision and business Case:**

**High Level Goals:**

|  |  |  |  |
| --- | --- | --- | --- |
| **High Level Goals** | **Priority** | **Problem And Concerns** | **Current Solutions** |
| Fast, secure,  User friendly | High | Calling or texting simply from mobile phone in a panic situation takes more time. | Option of an emergency call is given in the mobile phones but it takes time to call and impossible to send the location URL. |

**Constraints:**

* Network unavailability
* Disabled GPS

**Executive Summary:**

In today’s world, people using smart phones have increased rapidly and hence, a smart phone can be used efficiently for personal security or various other protection purposes. The heinous incident that outraged the entire nation have waken us to go for the safety issues and so a host of new apps have been developed to provide security systems to people via their phones. Our Android Application for the Safety of people and this app can be activated this by a single click, whenever need arises. A single click on this app identifies the location of place through GPS and sends a message comprising the location URL to the added contacts to help the one in emergency situations.

Our application has the following main features;

* **Registration:**

When user will install the app for the first time he/she needs to register their phone number once.

* **Confirmation:**

After registration a 4-digit verification code will be sent to the registered number of the user. User will enter the code, if code matches, registration will be done otherwise will ask again for the code.

* **Main menu:**

In this section user will have following option,

•Instructions

•Add contacts

•View contact list

* **Emergency button:**

Once the app is activated, the user will have an emergency message with the emergency button whenever he/she opens the app.

This project is an android application where we have to install in the mobile and register the number once, if we find some dangerous signs at any time we have to just open the application in our mobile and an emergency button will appear. By clicking on send message button an emergency message will be sent to the added contacts with the location.

**Use Case Model:**

**Functional Requirements:**

* System must send a verification code to user for registering the number.
* System must ask the user to turn on the GPS location.
* System must send an emergency message to the added contacts as soon as emergency button is clicked.
* System must provide the facility of adding or deleting any contact from contact list

**Supplementary Specification**

**Non-Functional Requirements:**

**Responsiveness:-**

Application should be responsive to the user Input or to any external interrupt which is of highest priority and return back to same state

**Performance:-**

The performance of the Application can be determined by it responsive time, time to complete the given task.

**Scalability:-**

App should able to adopt itself to increased usage or able to handle more data as time progress.

**Usability:-**

User should be able to understand the flow of App easily i.e. users should able to use App without any guideline or help from experts/manuals. Our Safety app is a user-friendly app.

**Reliability:-**

The application should be reliable to perform the business, i.e. when user perform some important action it should be acknowledged with confirmation.

**Security:-**

All the app data should be secured and be encrypted with minimum needs so that it’s protected from outside environment also from internal attack.

**Availability:-**

There should be a common plane where the user can access your application to install and look for regular updates give feedback

For example: - Googles Play Store

**Glossary:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Term** | **Definition** | **Format** | **Validation Rules** | **Aliases** |
| Number Registration | User will enter the number to register himself once he/she installs the app. |  |  |  |
| Number verification | When user enters the number the system will send the OTP code for the verification of the number. |  |  |  |
| Main menu | Main menu will provide user different options in which user can add, delete or view contacts. |  |  |  |
| Emergency button | A button to send an emergency message. |  |  |  |
| OTP | A verification code which user will receive after entering the number for registration. | 4-digit code. | 4th digit is a check digit. | One-Time Password |
| GPS | For location tracking |  |  | Global positioning system. |

**Risk List and Risk Management Plan:**

|  |  |
| --- | --- |
| **Risks** | **Management Plan** |
| Verification fails | If the entered verification code do not matches with the code sent by the system, system will display a message (“Verification failed enter code again”). |
|  |  |

**Prototype:**

1. **Registration Section**

<https://drive.google.com/file/d/12S3LXCnZlFVrrD3v-c-8UwA387TnqRVZ/view?usp=sharing>

1. **Number Verification**

<https://drive.google.com/file/d/16is1uxi3T3Wgm_NH5t3Felzzq7Hjuf2S/view?usp=sharing>

1. **Main menu**

<https://drive.google.com/file/d/1Q0ASeFSMptyV9-5drsCn62G1nQ1iBa4v/view?usp=sharing>

**\*Instruction**

<https://drive.google.com/file/d/1bLt-sovjBj6O0FjvQ-9PCORPVtRsoGZ6/view?usp=sharing>

**\*Add Contact**

<https://drive.google.com/file/d/1KAlmqeWXIFN7d--RvQcCRk2iszemDcs4/view?usp=sharing>

**\*Contact List**

<https://drive.google.com/file/d/1relGDXbPFuBlw4jaEh_DRFgeyxNO3ExN/view?usp=sharing>

<https://drive.google.com/file/d/1xH-GsbYJvYM80_N8Z0MXgHTVmQMfVCtA/view?usp=sharing>

**\*Feedback**

<https://drive.google.com/file/d/1HglhNwZA2geQvpcPyu4LQJVVHJcSlZts/view?usp=sharing>

1. **Emergency button**

<https://drive.google.com/file/d/1714GrAlOlX4xCv611DTiyxKkY9vQR7PI/view?usp=sharing>