

## TABLE OF CONTENT

Title no	Page
Certificate page	I
Industrial certificate	II
Certificate for Completing Activity on PMMS	IV
Certificate obtained from the Plagiarism checking software	VI
Undertaking about originality of work	VII
Acknowledgement	VIII
Abstract	IX
<b>Chapter 1 :</b> Introduction	
1.1 Problem summary and introduction	5
1.1.1 Problem Summary	
1.1.2 Introduction	
1.2 Aim of the objectives	6
1.2.1 Aim	
1.2.2 Objective	
1.3 Problem specification	6
1.4 Literature review and PAS	7
1.4.1 Literature Review	
1.4.2 Prior Art Search	
1.5 Plan of work	9
1.5.1 Project Development Approach	
1.5.2 Project Plan	
1.6 Material/Tools Required	11
<b>Chapter 2:</b> Diagrams , Data Dictionary , Canvas	
2.1 Diagrams	
2.1.1 E-R Diagram	13
2.1.2 Data Flow Diagram	
2.1.2.1 Level-0 DFD	14
2.1.2.2 Level-1 DFD	15
2.1.3 Use Case Diagram	16
2.1.4 Sequence Diagram	
2.1.4.1 Green mode	17
2.1.4.2 Yellow mode-1	18
2.1.4.3 Yellow mode-2	19
2.1.4.4 Red mode	20

2.1.5	Activity Diagram	
2.1.5.1	Green mode	21
2.1.5.2	Yellow mode	21
2.1.5.3	Red mode	22
2.1.6	Class Diagram	23
2.1.7	Flow Diagram	
2.1.7.1	Green mode	24
2.1.7.2	Yellow mode	25
2.1.7.3	Red mode	26
2.2	Data Dictionary	27
2.3	Canvas	
2.3.1	Observation Matrix	29
2.3.2	Production Development Canvas	30
2.3.3	Ideation Canvas	31
2.3.4	Ideation Funnel Canvas	32

## Chapter 3: Implementation

3.1	Implementation Environment	34
3.2	Security Feature	34
3.3	Coding Standard	34
3.4	Testing Plan	36
3.5	Testing Strategy	36
3.5.1	Unit Testing	
3.5.2	Integration Testing	
3.5.3	Validation Testing	
3.6	Testing Methods	37

## Chapter 4: Application Design

4.1	Signup Page	39
4.1.1	User Registration	
4.1.2	Provide Contacts	
4.2	Mode Selection	42
4.3	Find Nearby Hospitals/Police	
4.3.1	List of Police	45
4.3.2	List of Hospital	46
4.4	Menu Items	47

## Chapter 5: System Analysis

5.1	Study of Current System	53
5.2	Problem and weakness of current system	53
5.3	Requirement of the new system	53
5.4	Assumption and dependancies	53

5.5 User Requirement	54
5.6 Functional Requirement	54
5.7 Non functional requirement	54
<b>Chapter 6: Conclusion and Future Work</b>	<b>55</b>
6.1 Conclusion	
6.2 Future Work	
<b>Appendix A</b>	
<b>Appendix B</b>	
<b>Appendix C</b>	
<b>References</b>	

# **CHAPTER 1**

## **Title: Introduction**

- **Problem Summary**
- **Aim and Objectives**
- **Problem Specification**
- **Literature Review and PAS**
- **Plan of Work**
- **Materials/Tools required**

## Chapter 1

### Title: Introduction

#### 1.1 Problem Summary

##### 1.1.1 Problem Summary

In today's world safety and security is important and major problem. Security and safety risks can occur anywhere in any place. Now a days girls are not safe .Not only girls no one is safe issues can be come from any way at any time at any place.

Therefore such solutions need to provide to overcome from this situations. Therefore security application is required in now a days To feel every one safer.

##### 1.1.2 Introduction

There are risks everywhere around the world. Specially the women and kids are not safe now a days. As we see there are too many rape, murder and kidnapping cases taking place all around. Our application will help the most. This app is specially built to secure you from being the victim to the rape or murder or kidnapping case. This app records audio and visual evidence in background to get help from the Police. This app also provides SMS and Location sending facility to the contacts saved in app.

## 1.2 Aim and Objectives

### 1.2.1 Aim

The Aim of our system is to help people when they are in dangerous situation.

### 1.2.2 Objectives

The main purpose of this project is to enhance the security of women. To prevent the women for becoming a victim of any of these activities like rape, kidnapping various type of situations.

## 1.3 Problem Specification

Accidents can take place anytime. In spite of such great Police force what is the reason we still see these cases taking place regularly? The reason is simple: **Help is never reached at the perfect time on crime scene** So how can we call for help when required the most? How will our friends know where to come for help? The answer is simple The **E-Helper** App! The App has three main modes of operation.

### Green mode:

This is "I am out somewhere but I am safe."

### Yellow mode:

This is "Something is fishy and is not usual mode." There is danger around but you are still safe.

### Red mode:

This is "I am in Danger" I need HELP mode. It starts recording audio and visual for evidences and start sending your locations to your family and police. This means that whenever you are alone and feel unsafe, this app is there for you. All you need is to secretly turn this app on. And the app will start working for your security in the background. It will start sending out your location as well as a message for help to your friends and local police in the background

## 1.4 Literature Review and PAS

### 1.4.1 Literature Review

- There are risks everywhere around the world. Specially the women and kids are not safe now a days. As we see there are too many rape, murder and kidnapping cases taking place all around.
- To minimize this kinds of risks. Our application will help the most.
- This app is specially built to secure yourself from being the victim to the rape or murder or kidnapping case.
- This app records audio and visual evidence in background to get help from the Police. This app also provides SMS and Location sending facility to the contacts saved in app.

### 1.4.2 Prior Art Search

PAS stands for Prior Art Search which includes:

#### ➤ **Web search/research publication:**

- Initially my web search resulted into many applications which were providing this types of emergency help. But, no application does have this additional features.
- Problem of old days was nobody was able to get help in time of need. Because of this application anyone can send notification to their family members and friends.

#### ➤ **User Feedback:**

In new computerized system I tried to give these facilities.

- Safety
- Friendly user interface.
- Time saving.
- Simple and Reliable
- Background collection of evidence.
- Display Nearby Police Station.

- Display Nearby Hospitals list.

➤ **Patent Search:**

**Automated event severity determination in an emergency assistance system :**

A system and method for generating alerts for events in an emergency assistance system are provided. A report of an event is received from an event detecting device along with related information. A severity of the event is determined based at least in part on the related information, and one or more alerts are generated for responding to the event based at least in part on the severity. The related information can include audio recorded based on occurrence of the event, other component measurements based on occurrence of the event, etc.

**Domestic emergency system**

A domestic emergency system, comprising: help means and telecommunications company server; wherein the device is provided in the home help is selected, it features at least two buttons, which are used to help the police and fire brigade; telecommunications company's server via telephone line help system is connected to the server via the telecommunication operator operating company. When an emergency occurs, you can press the buttons to send a distress signal for help means through the telephone line to the telecommunications company's servers, telecommunications company server to send a distress signal according to the location and the type of help, leaving the operator based on the obtained information to the police and fire brigade immediately notified and thus make a distress Activities appropriate relief.

**Emergency 9-1-1 portal and application**

A computer aided prioritization (CAP) system may receive, from the emergency event reporter device, an emergency event including a priority selected from a set of event priorities and a type of event selected from a set of event types associated with the selected event priority; determine, based on the emergency event and without querying the emergency event reporter device for additional information, whether the emergency event indicates a higher priority emergency event to be handled by a computer aided dispatch (CAD) system.

➤ **Market Research:**

- Till now there was not any application or facility to help and to provide emergency help in these type of situations.
- Though many such applications are there in the market but we have some additional features that make our application work different from others.
- Additional feature is that we provide locations of nearby police stations or any hospitals.



### 1.5 Plan of Work

#### 1.5.1 Project development approach

The model that is basically being followed is the WATER FALL MODEL, which states that the phases are organized in a linear order. First of all the feasibility study is done. Once that part is over the requirement analysis and project planning begins. If system exists one and modification and addition of new module is needed, analysis of present system can be used as basic model. The design starts after the requirement analysis is complete and the coding begins after the design is complete. Once the programming is completed, the testing is done. In this model the sequence of activities performed in a software development project are: -

- Requirement Analysis
- Project Planning
- System design
- Detail design
- Coding
- Testing

Here the linear ordering of these activities is critical. End of the phase and the output of one phase is the input of other phase. The output of each phase is to be consistent with the overall requirement of the system. Some of the qualities of spiral model are also incorporated like after the people concerned with the project review completion of each of the phase the work done. WATERFALL MODEL was being chosen because all requirements were known beforehand and the objective of our software development is the computerization/automation of an already existing manual working system.

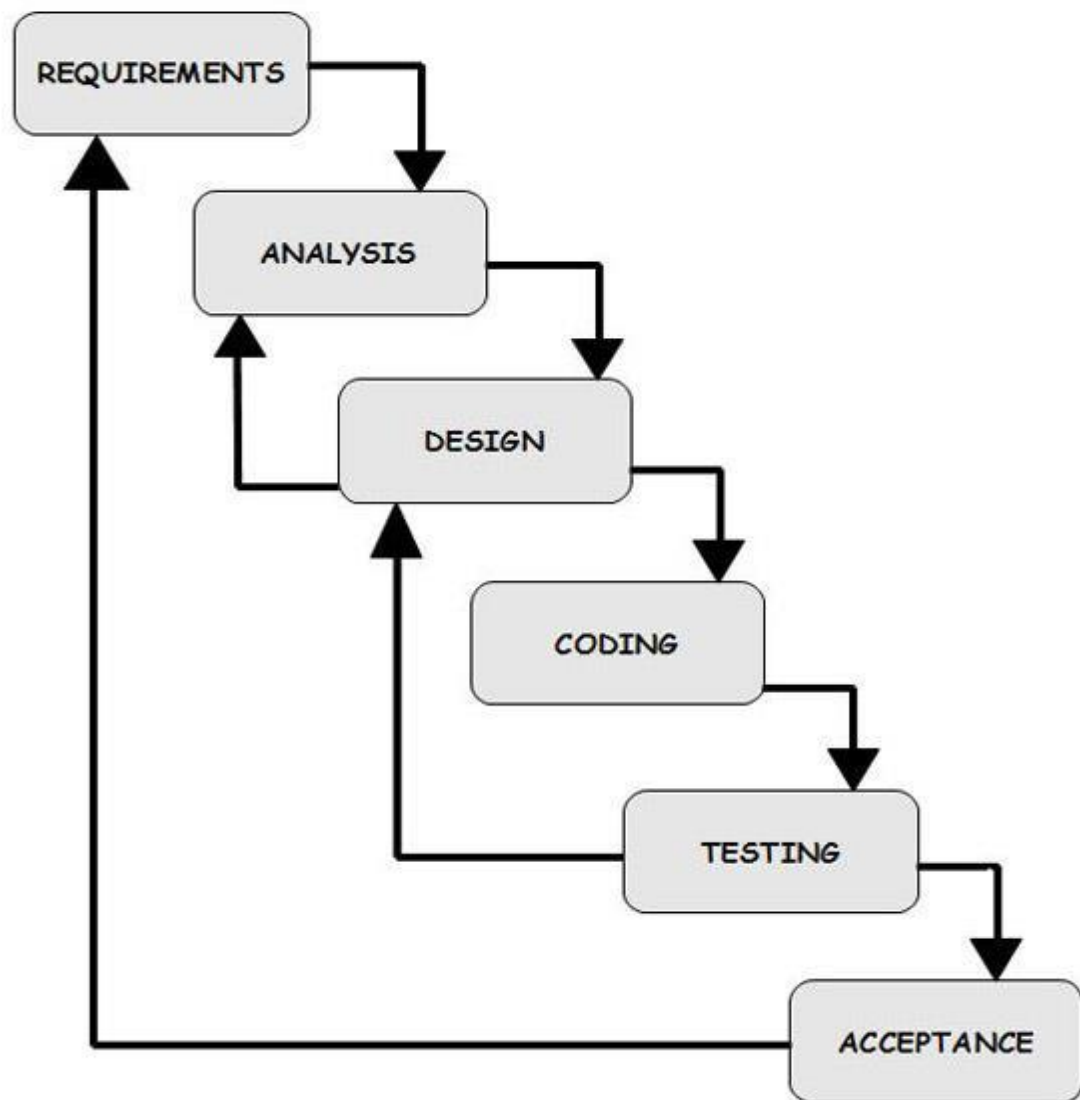


Fig 1.5.1

### 1.5.2Project plan

Project planning is basically concerned with identifying and measuring activities, milestones and deliverables produced by project. Thus in this section I cover following:-  
Estimating some basic attributes of the project

- **Duration:** How long will it take to complete the development?

The Client for which the website is to be developed is not clear with his requirements and not very rigid with the demands due to the unawareness of possibilities. Hence it is necessary to understand his requirements in details, do a detailed research of what combination of technologies would be best for the project, get acclimatized to them, do the rest of the planning and go ahead with the work. Hence the duration of the Project can be roughly estimated to 8 months.

- **Efforts:** How much efforts would be required?

Since it is a one person group and as it is a very hazy picture ahead of how to go about the

Project, figuring that out and considering the pros and cons would take up a lot of effort in itself. Thus efforts can be estimated to 2 hours of weekdays work for 8 months.

### 1.6 Materials/Tools required

#### *Hardware interfaces*

**RAM:** - 512 MB

**Internal Memory:** - 500 MB

**Processor:** - Min 400 MHz

**Mother Board:** - Any

#### *Software interfaces*

**Front End:-** Core Java

**Back End:** - My SQL

**Operating System:** - Jelly Bean 4.1.2 or Higher

**Programming Language:** - Java

**Project Technology:** - Eclipse

## CHAPTER 2

- **Diagrams**
- **Data Dictionaries**
- **Canvas**

## Chapter 2

### Title: Diagrams , Data dictionaries , Canvas

#### 2.1 Diagram

##### 2.1.1 ER Diagram

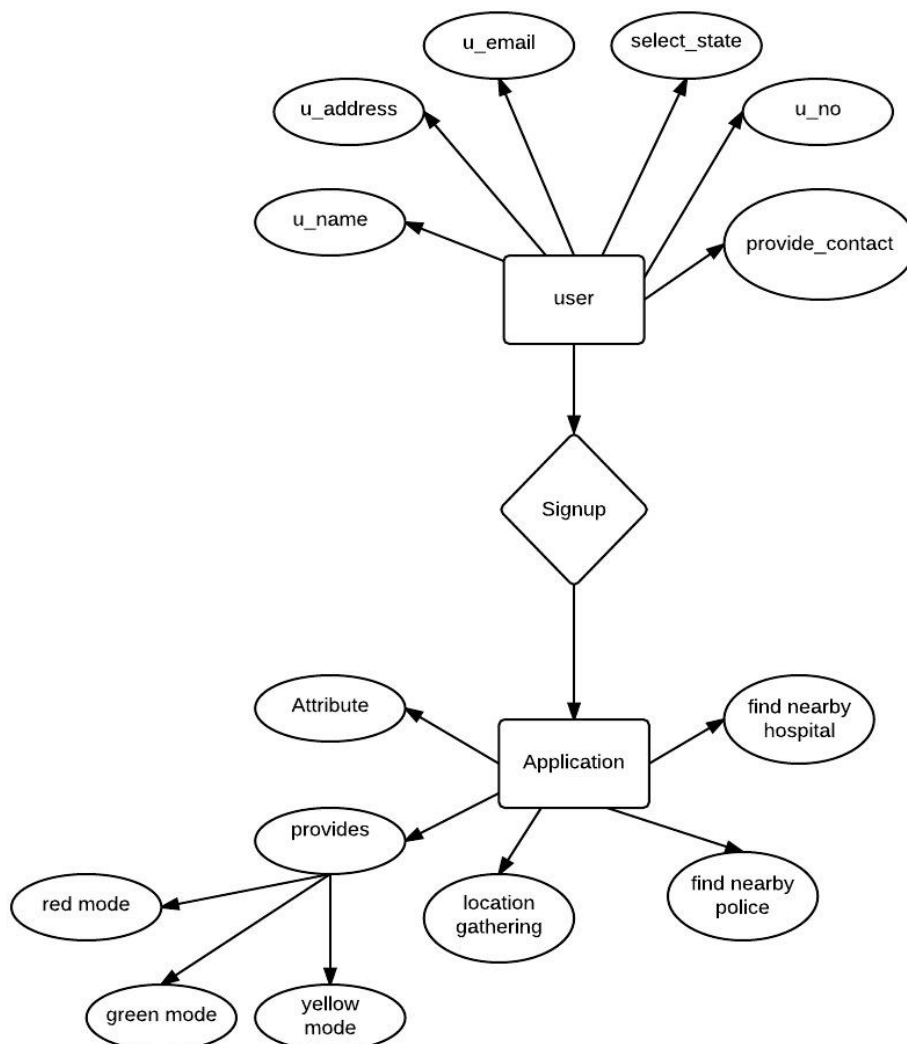


Figure 2.1.1 E-R Diagram

## 2.1.2 Data Flow Diagram

### 2.1.2.1 Level – 0 DFD

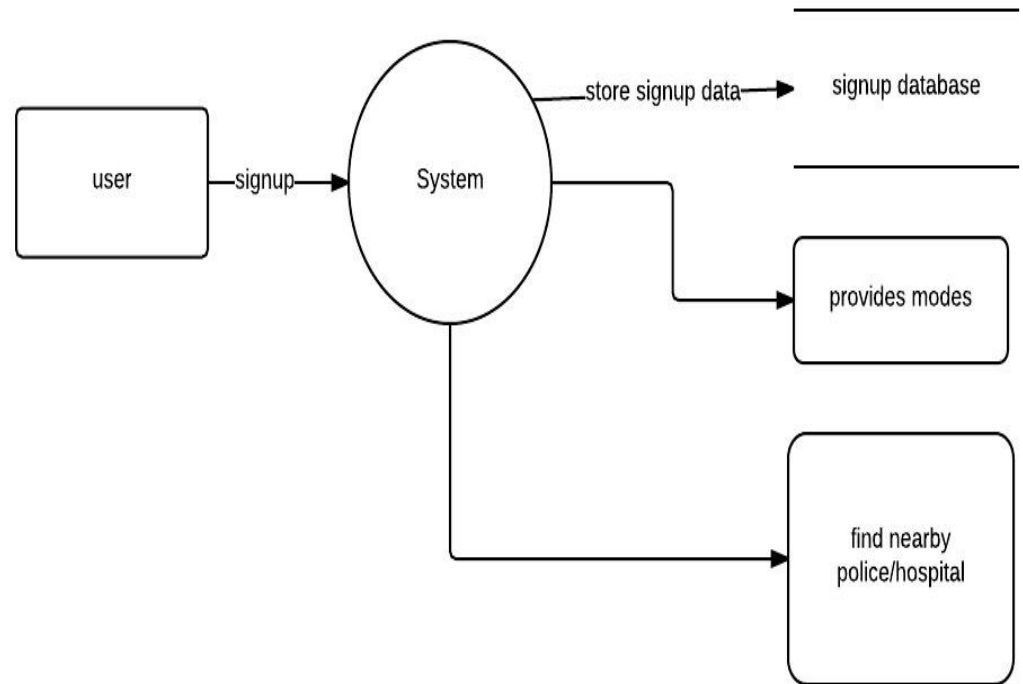


Figure 2.1.2.1 Level - DFD

## 2.1.2.2 Level – 1 DFD

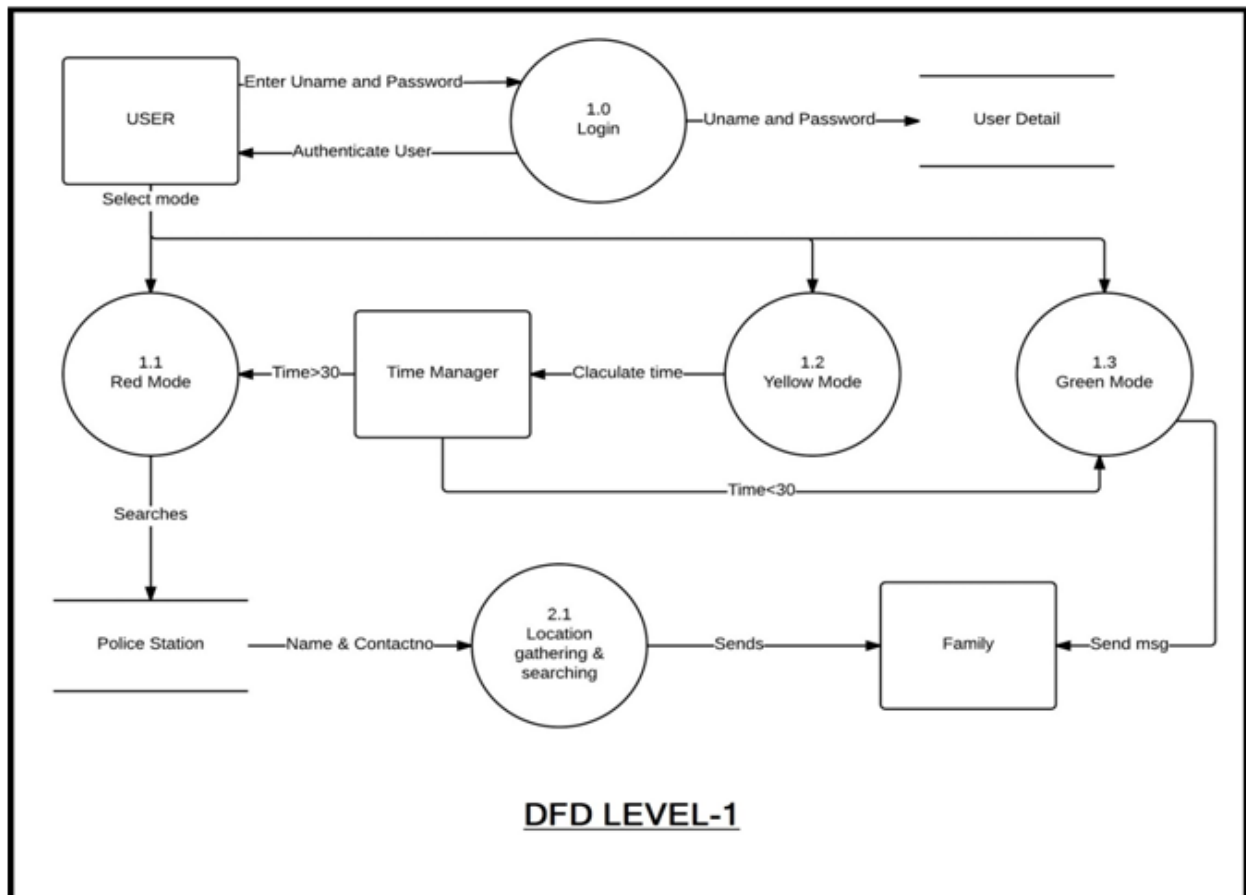


Figure 2.1.2.2 Level – 1 DFD

## 2.1.3 Use case Diagram

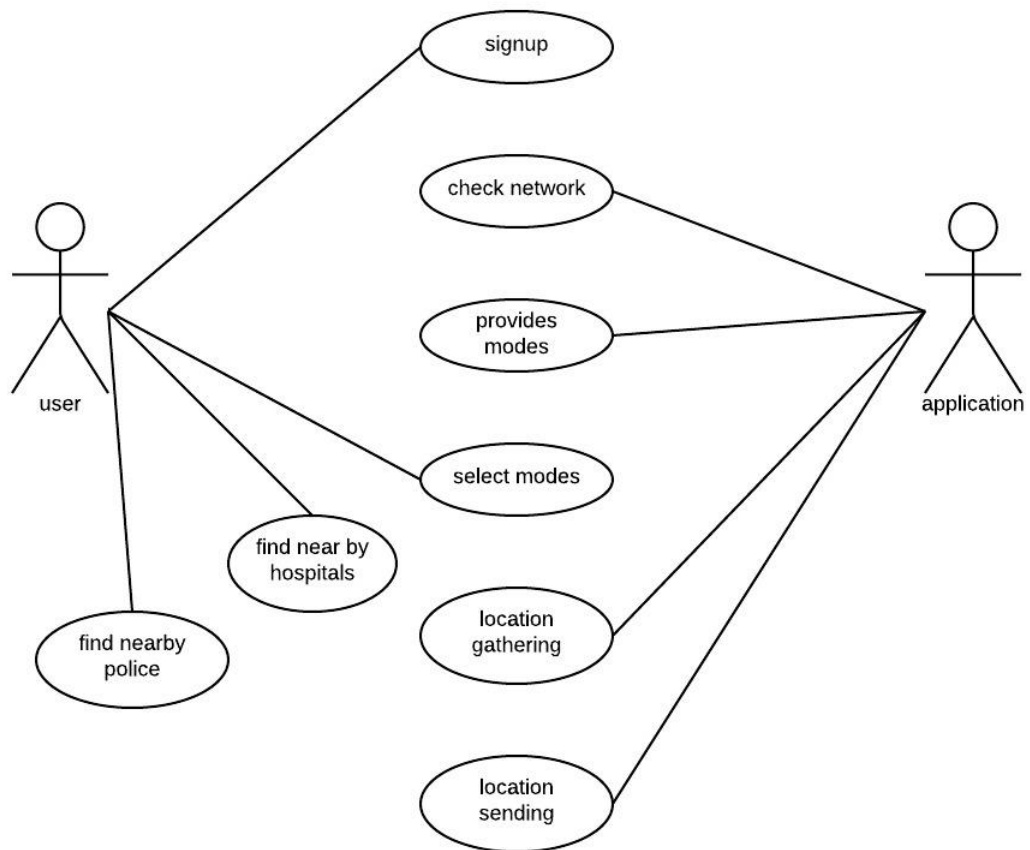


Figure 2.1.3 Use Case Diagram: Admin



## 2.1.4 Sequence Diagram

### 2.1.4.1 Green Mode

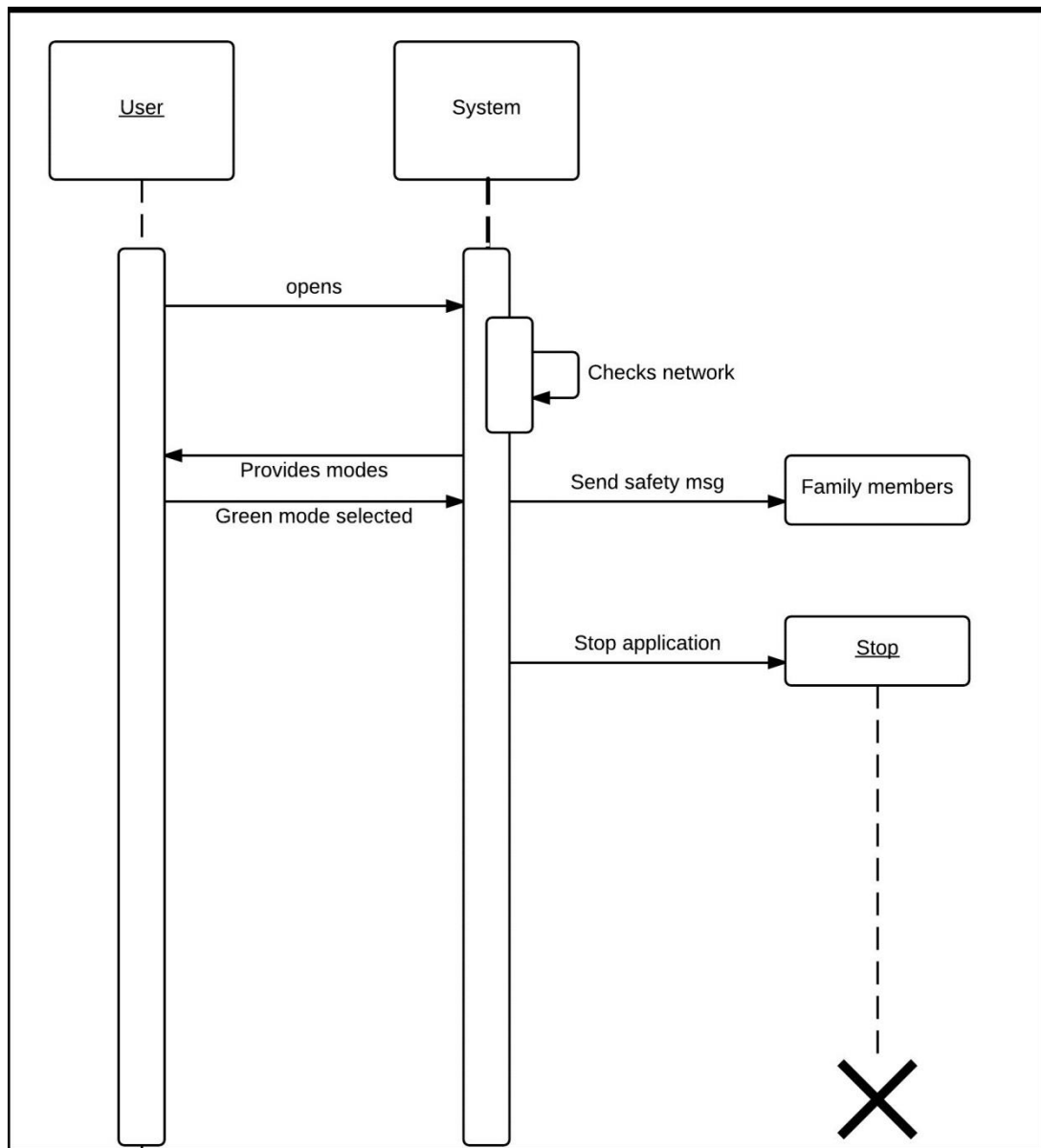


Figure 2.1.4.1 Sequence Diagram: Green Mode

## 2.1.4.2 Yellow Mode – 1(When Timer Stopped)

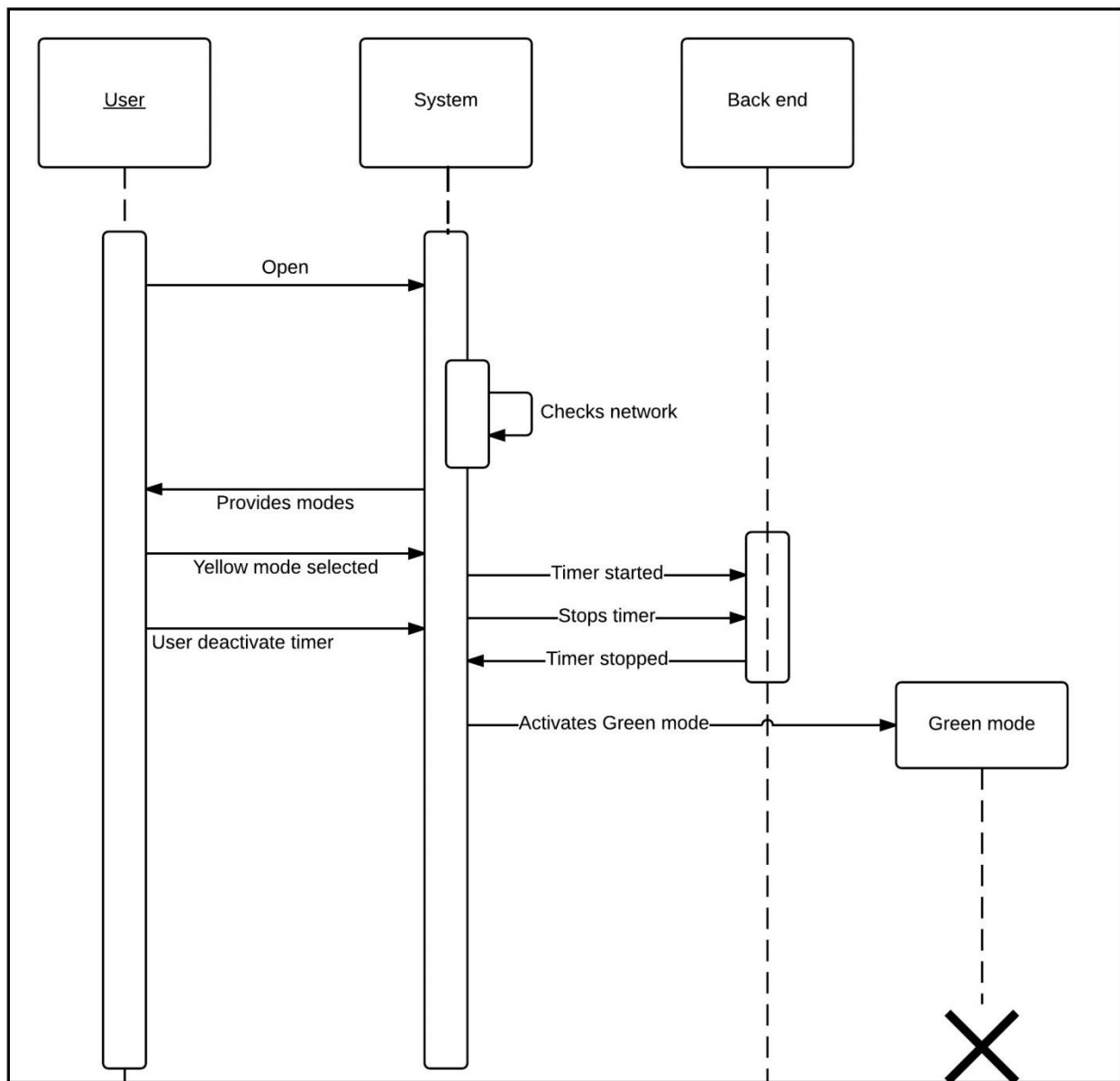


Figure 2.1.4.2 Sequence Diagram: Yellow Mode

## 2.1.4.3 Yellow Mode – 2(Time>30)

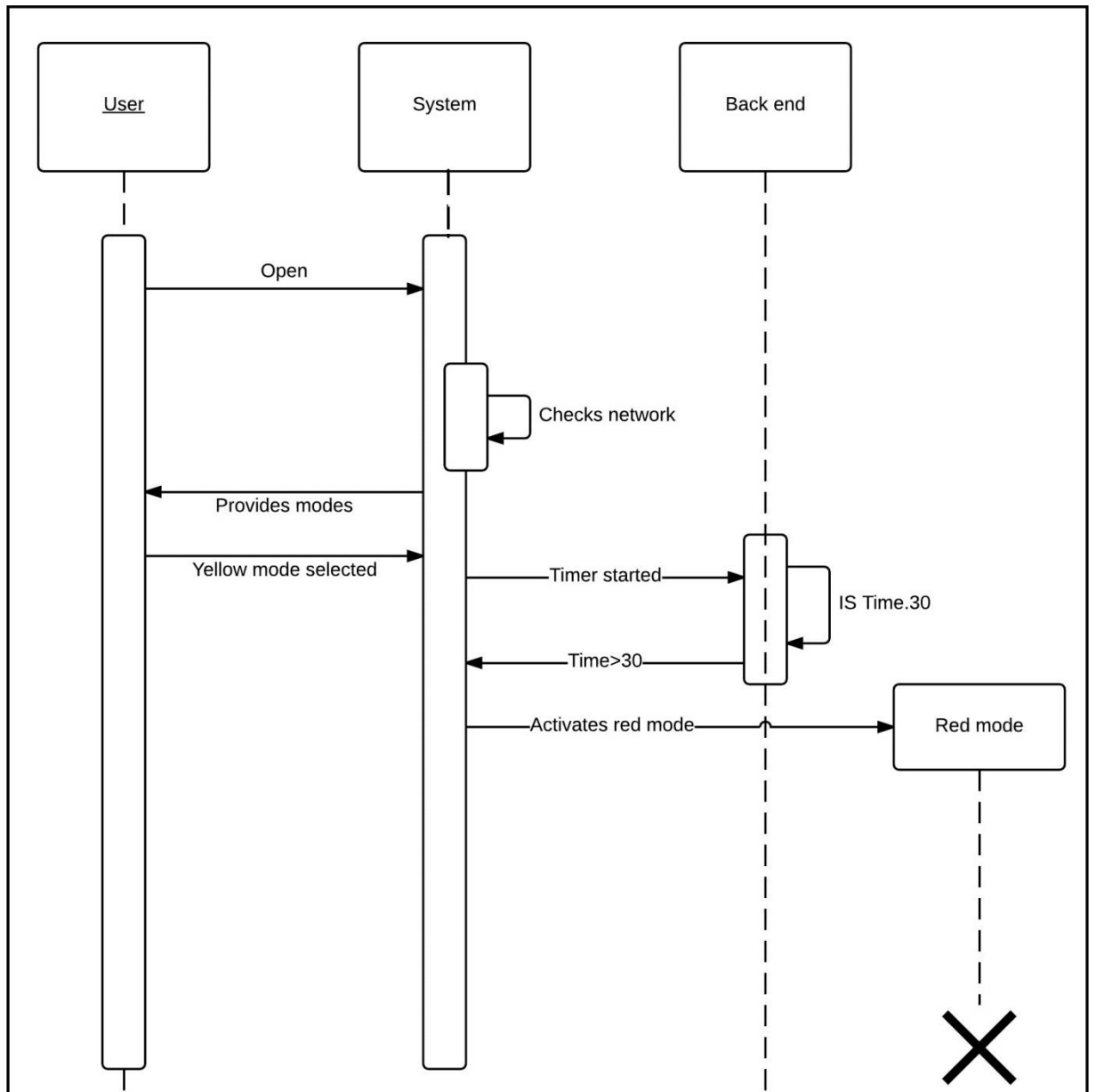


Figure 2.1.4.3 Sequence Diagram: Yellow Mode - 2

## 2.1.4.4 Red Mode

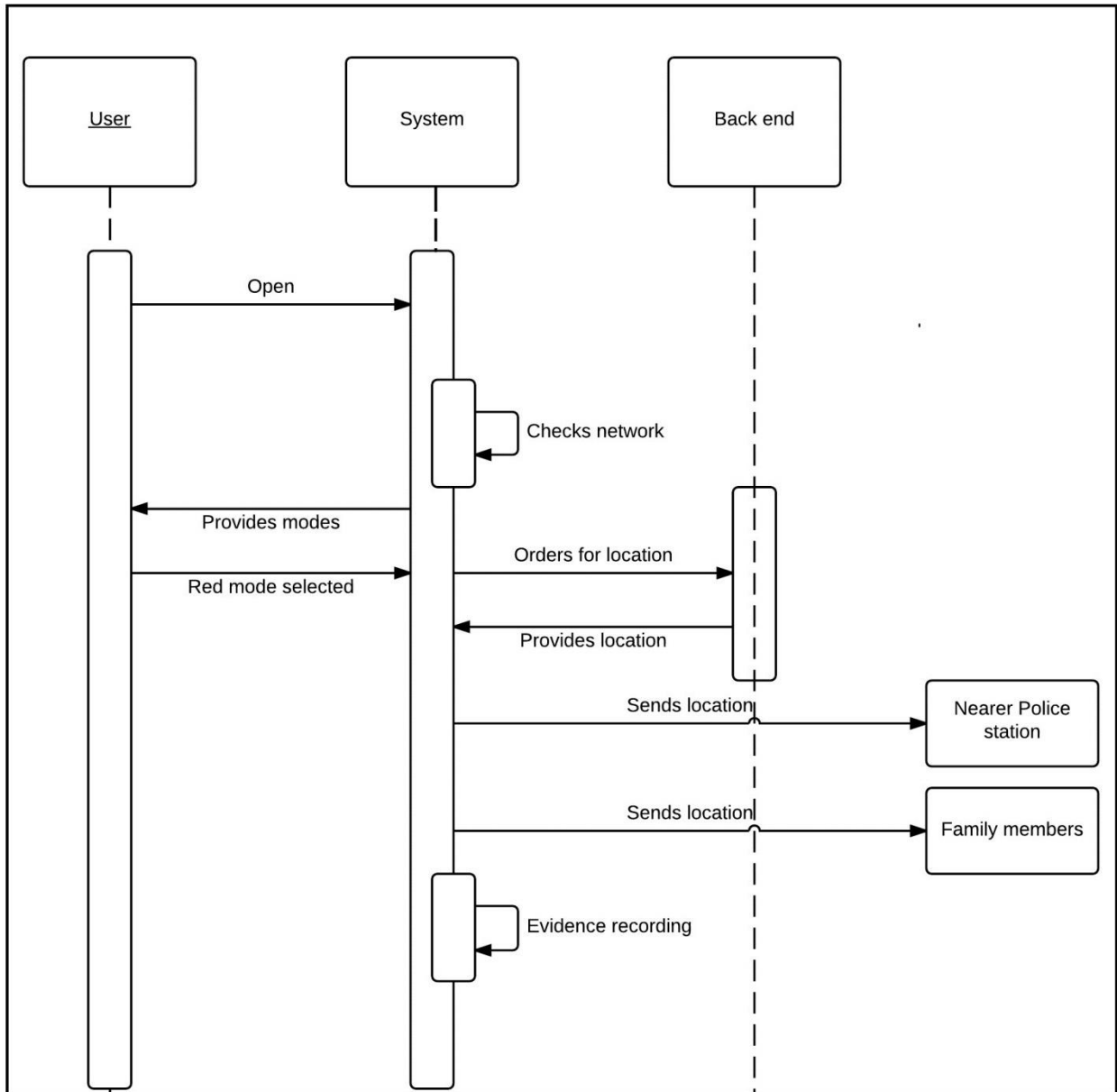


Figure 2.1.4.4 Sequence Diagram: Red Mode

## 2.1.5. Activity Diagram

### 2.1.5.1 Green Mode Activity

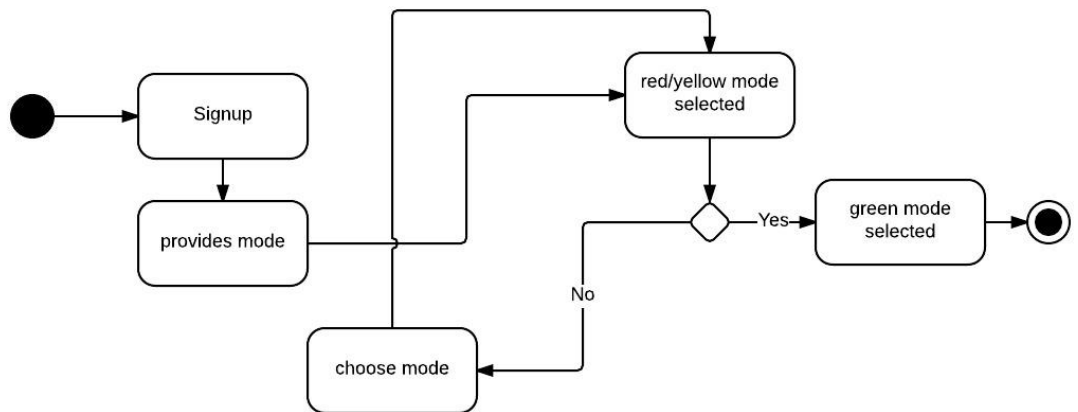


Fig-2.1.5.1

### 2.1.5.2 Yellow mode Activity

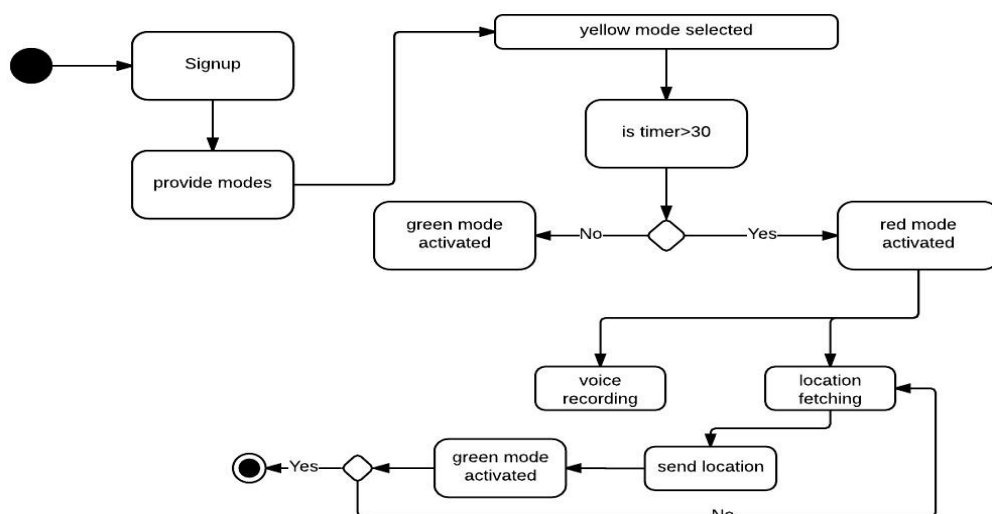
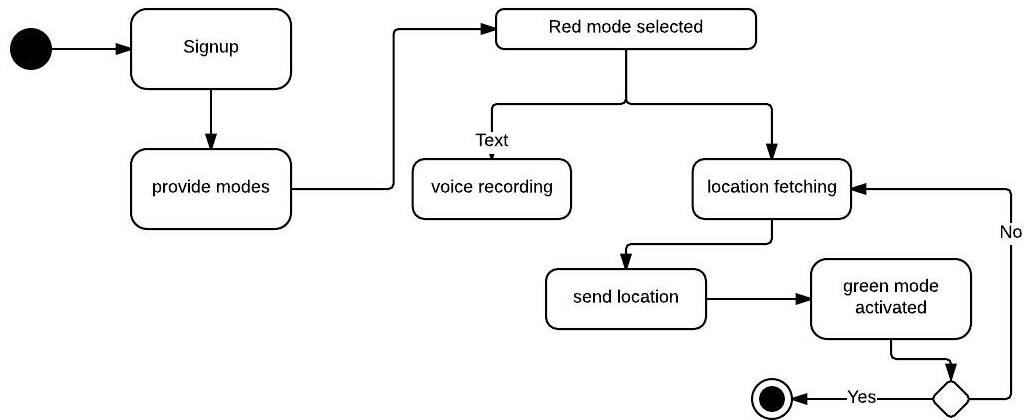


Fig-2.1.5.2

## 2.1.5.3 Red mode activity



**Fig 2.1.5.3**

## 2.1.6 Class Diagram

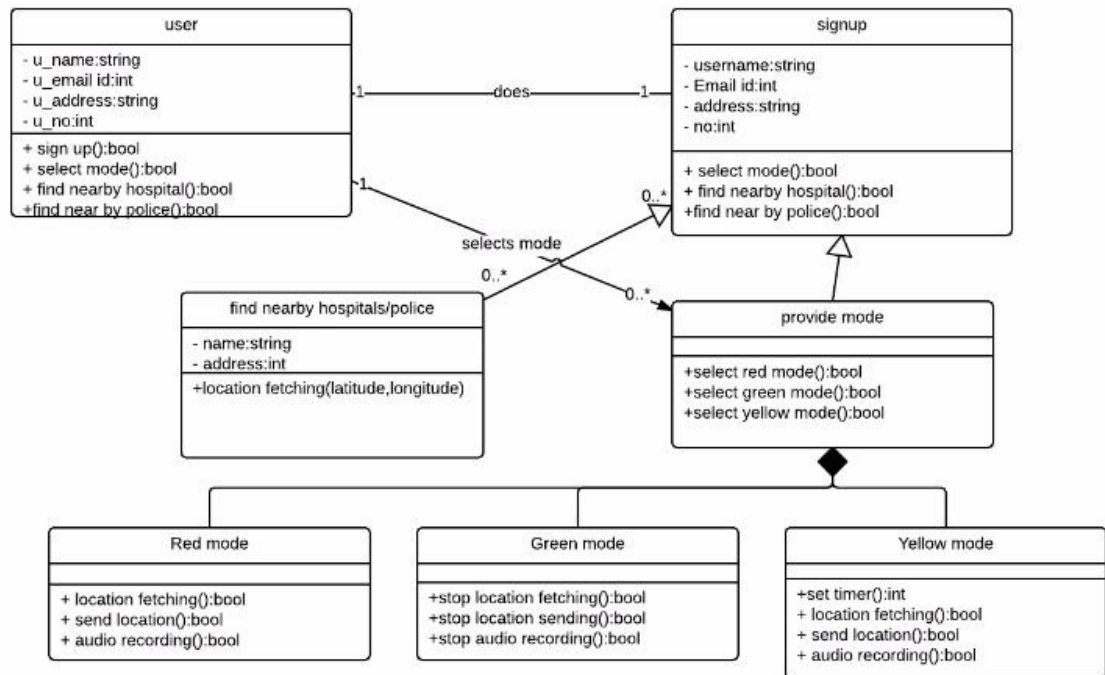


Figure 2.1.6 Class Diagram

## 2.1.7 Flow Diagram

### 2.1.7.1 Green Mode

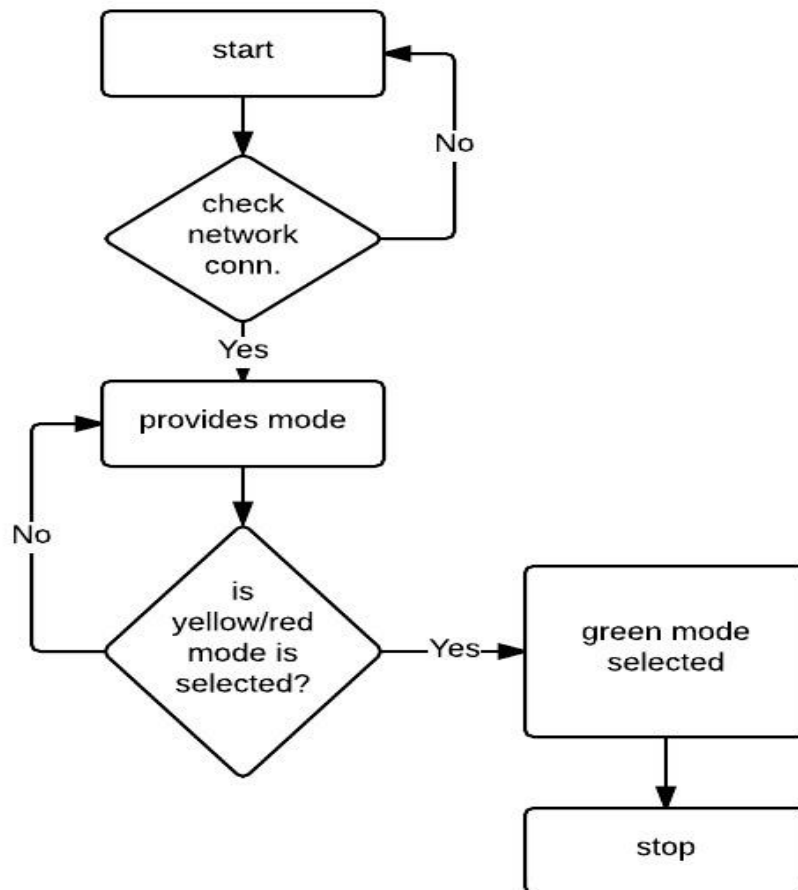


Figure 2.1.7.1 Green Mode Flow Diagram



## 2.1.7.2 Yellow Mode

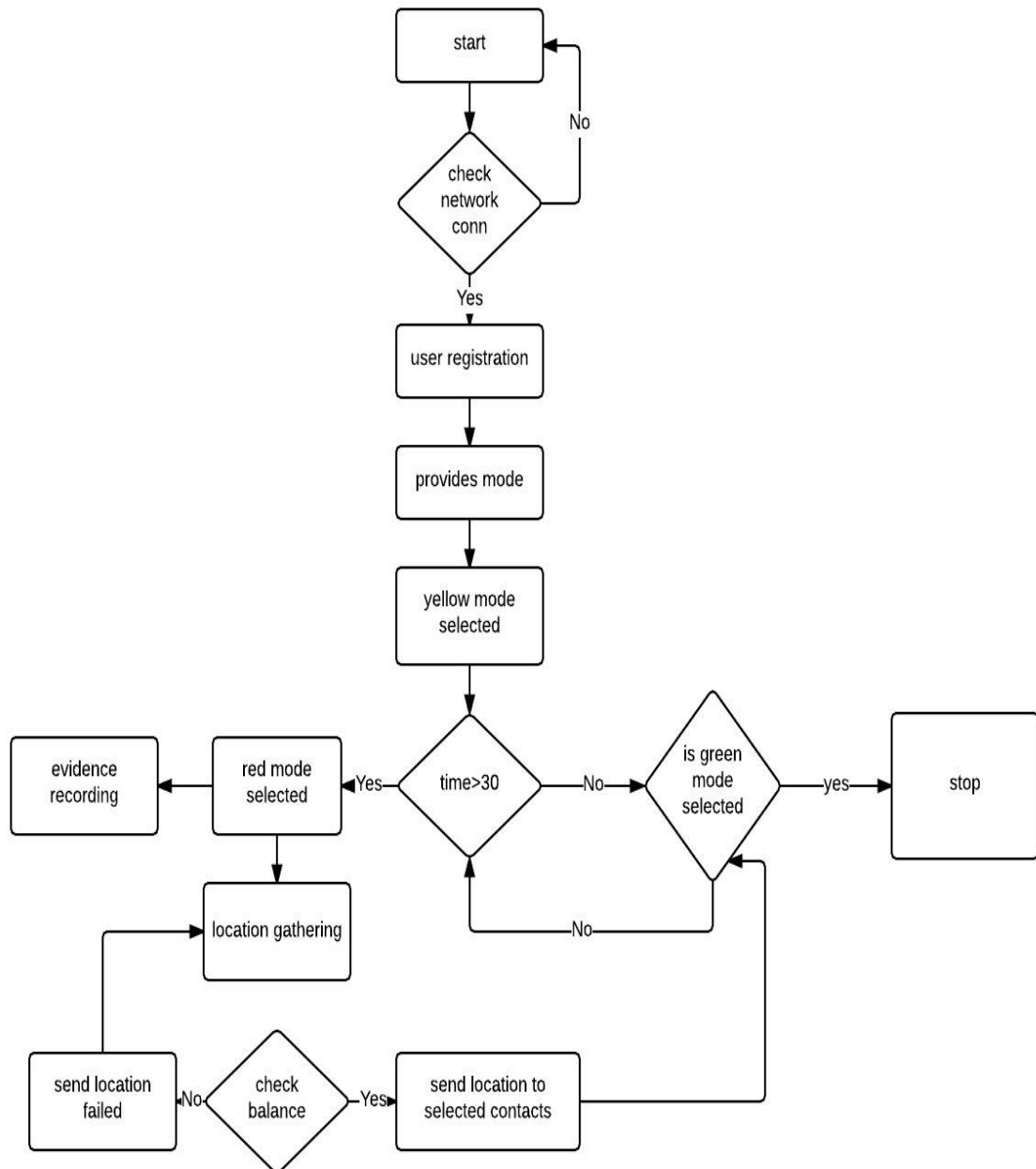


Figure 2.1.7.2 Yellow Mode Flow Diagram

## 2.1.7.3 Red Mode

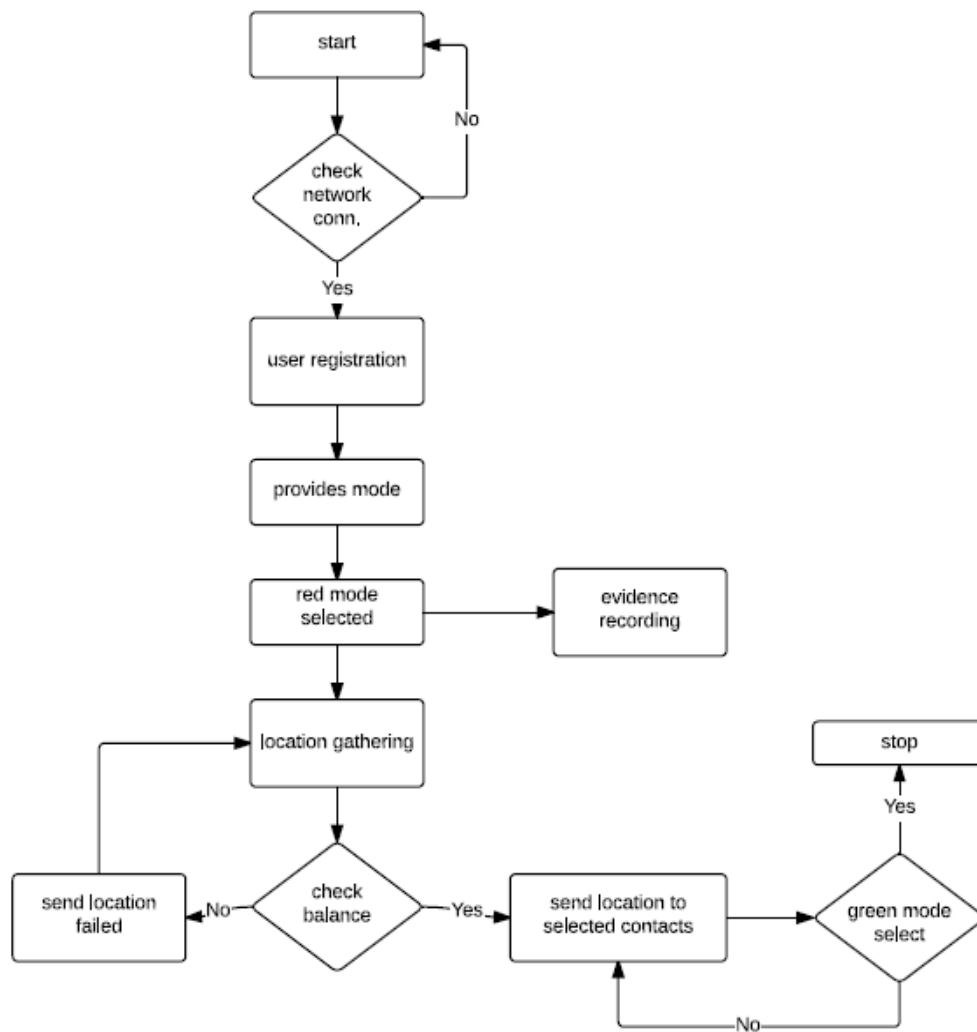


Figure 2.1.7.3 Red Mode Flow Diagram

## 2.2 Data Dictionary

### 2.2.1 Name: Sign Up

Description: It stores details of User.

<b>Sign up</b>	Role will have access to modules in the system. It will store user's personal data into the database.				
<b>Data Member Name</b>	<b>Description</b>	<b>Type</b>	<b>Additional Type Information</b>	<b>Mandatory ?</b>	<b>Unique ?</b>
<b>Id</b>	<b>Auto Increment Key</b>	<b>Number</b>	<b>Generated by database</b>	<b>YES</b>	<b>YES</b>
<b>Name</b>	<b>User Full Name</b>	<b>Character</b>	<b>Case sensitive</b>	<b>YES</b>	<b>NO</b>
<b>Mobile No.</b>	<b>User Mobile No.</b>	<b>Number</b>	<b>Max 10 Digits</b>	<b>YES</b>	<b>YES</b>

### 2.2.2 Name: Message Sending

Description: Message sent by users of situation.

<b>Message Sending</b>	To send appropriate message to receivers of related situation.				
<b>Data Member Name</b>	<b>Description</b>	<b>Type</b>	<b>Additional Type Information</b>	<b>Mandatory ?</b>	<b>Unique ?</b>
<b>Message</b>	<b>Text message as per situation</b>	<b>Number</b>	<b>Generated by User</b>	<b>YES</b>	<b>YES</b>
<b>Current Location</b>	<b>Current Location of User</b>	<b>Character</b>	<b>Address, Longitude and Latitude</b>	<b>YES</b>	<b>YES</b>
<b>Selected Mode</b>	<b>User Situation</b>	<b>Character</b>	<b>Red , Green Or Yellow</b>	<b>YES</b>	<b>YES</b>

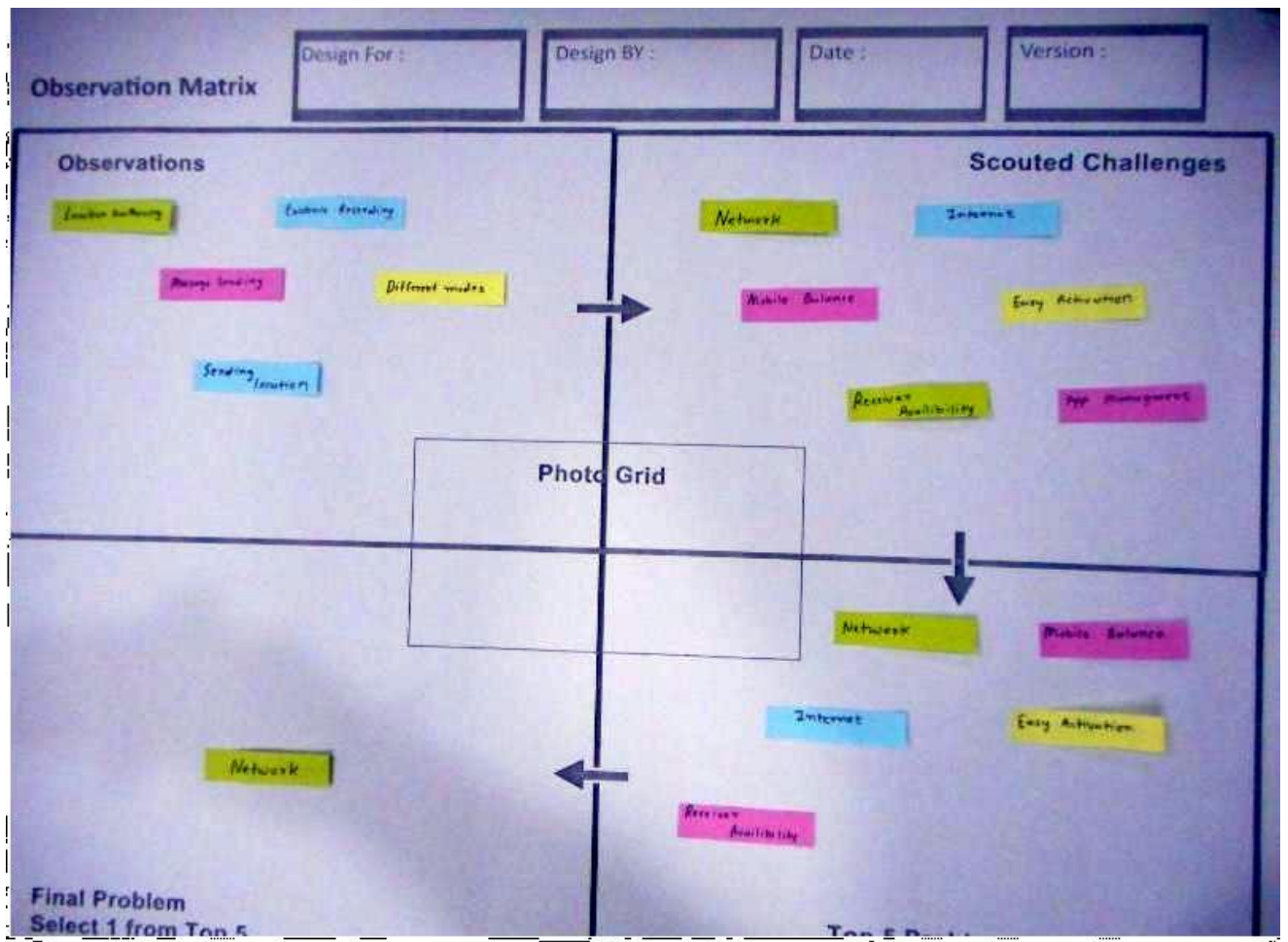
### 2.2.3 Name: : Contact Detail.

**Description:** It stores details of Receivers.

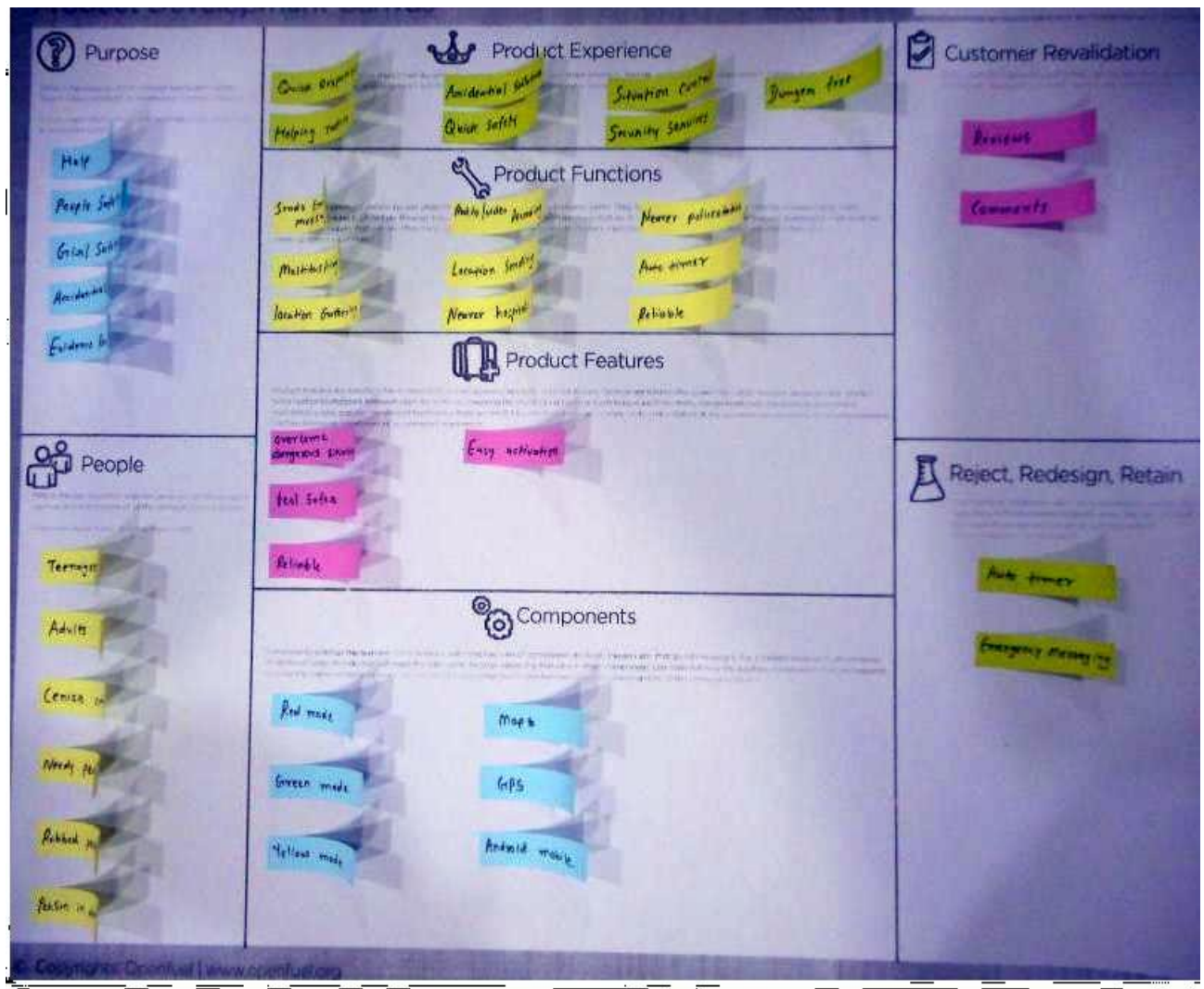
<b>Sign up</b>	Role will have access to modules in the system. It will store user's personal data into the database.				
<b>Data Member Name</b>	<b>Description</b>	<b>Type</b>	<b>Additional Type Information</b>	<b>Mandatory ?</b>	<b>Unique ?</b>
<b>Id</b>	<b>Auto Increment Key</b>	<b>Number</b>	<b>Generated by database</b>	<b>YES</b>	<b>YES</b>
<b>R_Name</b>	<b>User Full Name</b>	<b>Character</b>	<b>Case sensitive</b>	<b>YES</b>	<b>NO</b>
<b>Mobile No.</b>	<b>User Mobile No.</b>	<b>Number</b>	<b>Max 10 Digits</b>	<b>YES</b>	<b>YES</b>

## 2.3 Canvas

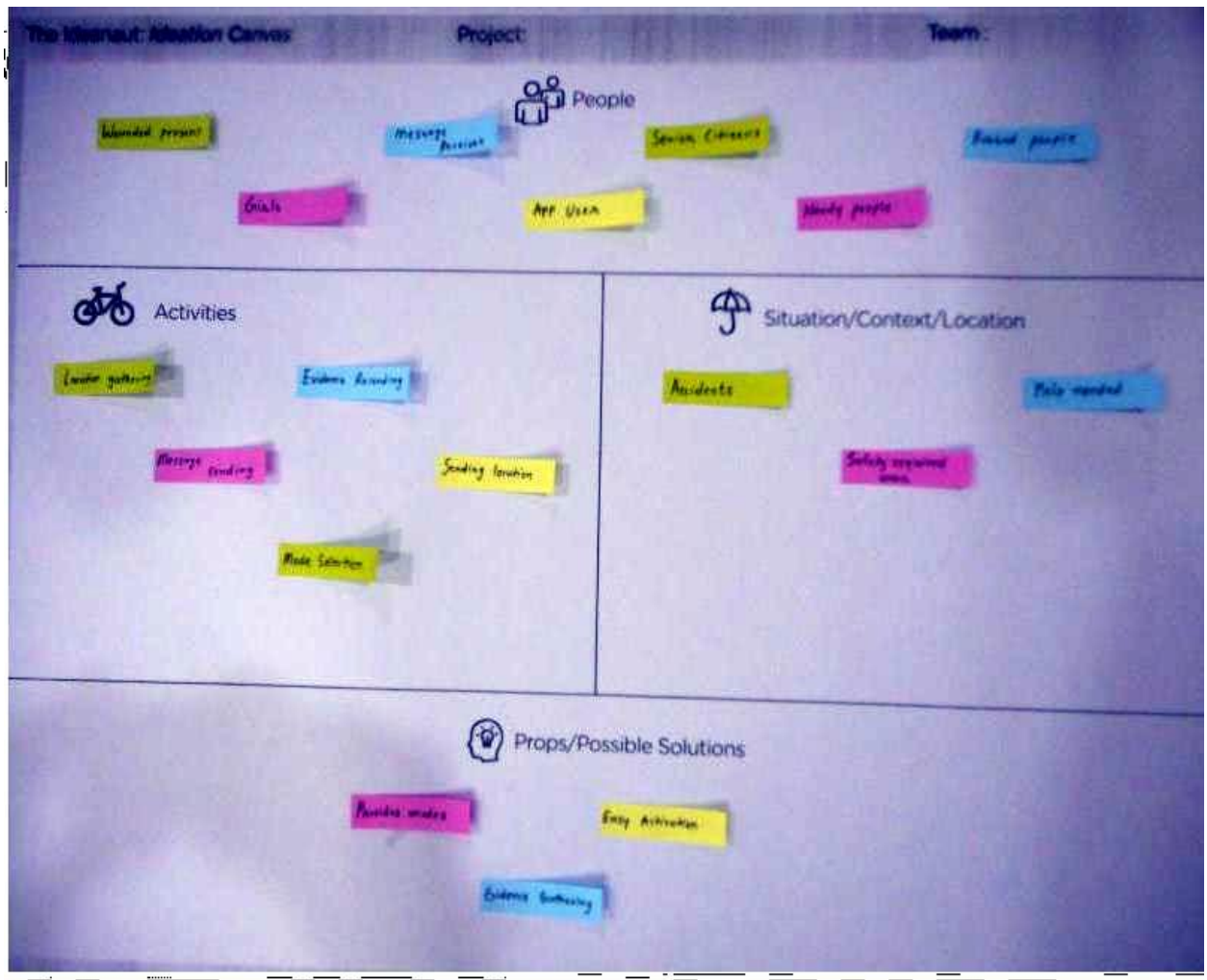
### 2.3.1 Observation Matrix



## 2.3.2 Product Development Canvas

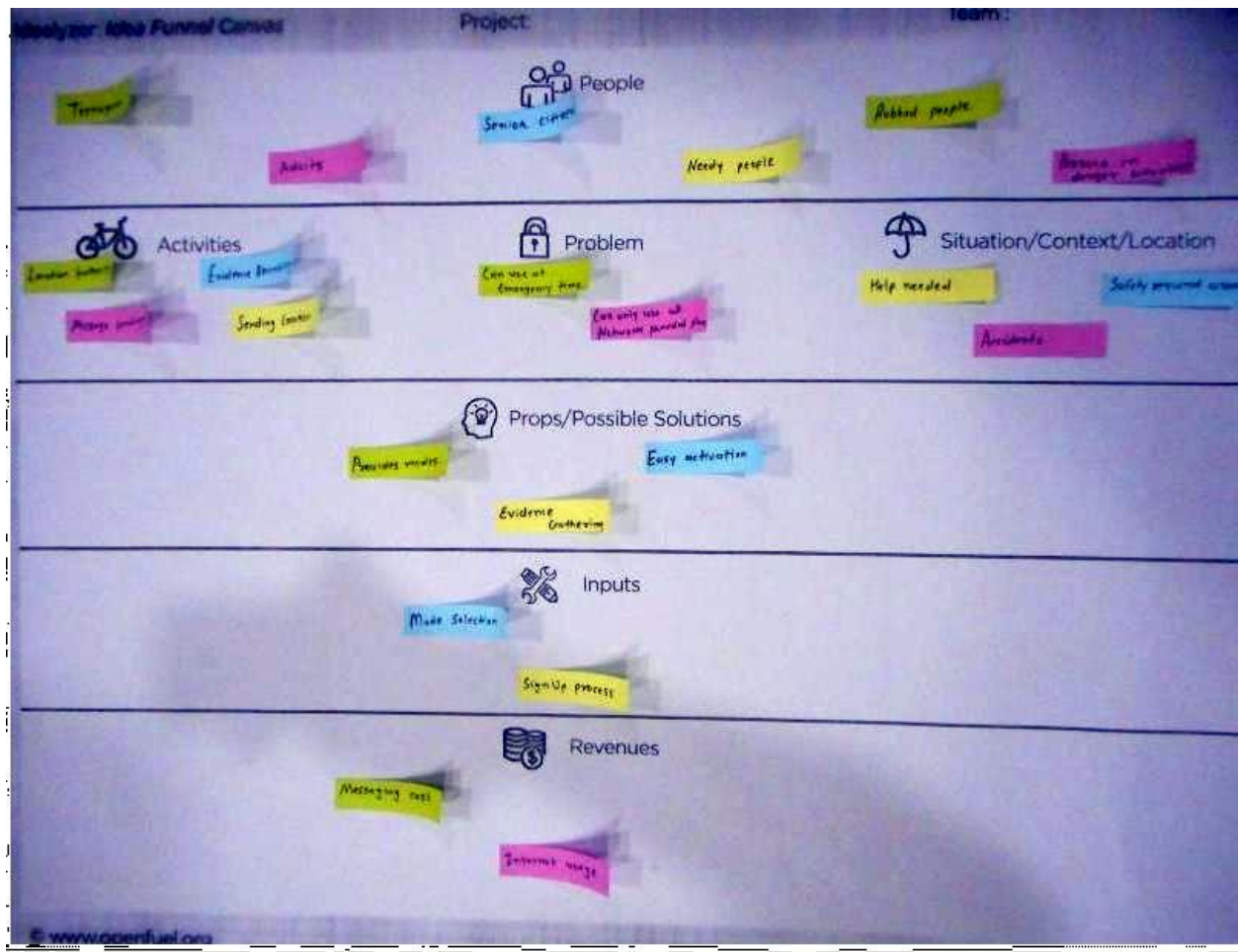


## 2.3.3 Ideation Canvas





## 2.3.4 Ideation funnel canvas





## **CHAPTER 3**

### **Title: Implementation**

- **Implementation Environment**
- **Security Feature**
- **Coding Standard**
- **Testing Plan**
- **Testing Strategy**
- **Testing Methods**

## Chapter 3

### Title: Implementation

#### 3.1 Implementation Environment

##### Software Requirement

**Front End:-** Core Java

**Back End: -** My SQL

**Operating System: -** Jelly Bean 4.1.2 or Higher

**Programming Language: -** Java

**Project Technology: -** Eclipse

##### Hardware Requirement

**RAM: -** 512 MB

**Internal Memory: -** 500 MB

**Processor: -** Min 400 MHz

**Mother Board: -** Any

#### 3.2 Security Feature

Authentication is necessary to enter into the system. This is required to prevent unauthorized access to the system

User will login one time only for use of application then after he will directly use application.

#### 3.3 Coding standard

The coding standard is the well-defined and standard style of coding. With the help of the coding standard any person can go into any code and figure out what's going on and new people can get up to speed quickly. A coding standard sets out standard ways of doing several things such as the way variables are to be named, the code is to be laid out, the comments are to be described, the work of function are to carried out etc. This section describes the coding standards, which are used in the program. In the context of coding standard the tag consists of one to four lower case characters followed by an underscore and is used to indicate the type of an object, control, or variable. The prefix applies only to variable names and consists of a single lower case character used to indicate the variable's scope.

We have adopted the following coding standards.

### Controls

We have used controls like Label, Button, Listview, Image, MenuItem , RadioButtonList and many others.

### Variable Declaration

We have placed the local variable declarations at the beginning of the script.

Block of declarations has aligned .

For multiple declarations I have used new declaration on the next line.

### Naming Conventions

The name of variable that I have used in script represents the content or purpose or role of the variable.

Variables are defined with the length of seven to eight characters.

Variable names consist of a data type used in it. If it is a string then the prefix of the variable is 'Character' else if integer then 'number'.

### Comments

The comments should describe what is happening, how it is being done, what parameters mean, which global are used and which are modified, and any restrictions or bugs. We have adopted the following standards for comments:

Every script should begin with a comment block, which describes the scripts purpose; any arguments used (if applicable), and return values (if applicable), inputs-outputs, and name of script.

Comments may also be used in the body of the script to explain individual sections or lines of code.

It is also used to describe variable definition or declaration.

Each part of the project has a specific comment layout. e.g. Line comments (//...), block comments (/\*....\*/) etc.

### Programming Convention

Some general conventions to be followed in programming:

Statements: Only one statement per line.

Spacing:

Space before and after all operators (such as +, \*, <, =, etc.) and the assignment symbol (=).

Indenting:

Improve the readability of script by using tabs to indent the body of statements.

Indentation/Tabs/Space Policy: 3, 4, or 8 spaces for each level.

### 3.4 Testing Plan

- A test plan is a systematic approach to testing a system such as a machine or software.
- The plan typically contains a detailed understanding of what the eventual workflow will be.
- A test plan documents the strategy that will be used to verify and ensure that a product or system meets its design specifications and other requirements.
- Depending on the product and the responsibility of the organization to which the test plan applies, a test plan may include one or more of the following:
- **Design Verification or Compliance test** - to be performed during the development or approval stages of the product, typically on a small sample of units.
- **Manufacturing or Production test** - to be performed during preparation or assembly of the product in an ongoing manner for purposes of performance verification and quality control.
- **Acceptance or Commissioning test** - to be performed at the time of delivery or installation of the product.
- **Service and Repair test** -to be performed as required over the service life of the product.
- **Regression test** -to be performed on an existing operational product, to verify that existing functionality didn't get broken when other aspects of the environment are changed (e.g., upgrading the platform on which an existing application runs).

### 3.5 Testing Strategy

- The testing strategy followed by the company is unique in its own way.
- The developer first takes into account the **UNIT Testing**.
- Then the **Integration testing** is conducted to check the over functionality of the system.
- Then the **Validation Testing** is performed once the whole project is done. **Alpha** and **Beta** testing are done once by the testing team and the clients respectively.
- Then the over **System testing** is done and after that **Acceptance testing** is done.

Testing strategies associated with the system are as follows:

#### 3.5.1 Unit Testing

Unit testing is generally used to test that the interface between the modules is appropriate. There are total four modules in the particular system and the interface between these modules is perfect and is functioning very properly.

### **3.5.2 Integration Testing**

Integration testing is used for testing errors while program structure is developed. Lots of errors were generated while program structure associated with these systems was generated.

### **3.5.3 Validation Testing**

Validation testing is used to demonstrate conformity with requirements. Main objectives of all the system are to satisfy the user's requirement. Validation testing helps to know whether the user's requirements are satisfied or not. Validation testing helped my system to move towards right path.

## **3.6 Testing Methods**

The testing is the real-time system and thus following methods are used.

### **3.6.1 Task Testing**

Task testing helps my system to test whether all the task are carried out properly or not. It also solves all logical errors. Thus all processing in my system is appropriate.

### **3.6.2 Behavioural Testing**

This testing is useful to determine the behaviour of the real-time systems. This testing helped to develop the rest case for the particular system. This testing helps to test the different events associated with the system.

### **3.6.3 System Testing**

Every system has the hardware and software interfaces associated with itself. The hardware and software should work in co-operation with each other for obtaining the successful project. This testing helps to show whether hardware and software are working properly or not. It shows many interrupt which may arrive. Thus system can be corrected in advance.

## **CHAPTER 4**

### **Title: Application Design**

- **Sign Up Page**
- **Mode Selection**
- **Find nearby hospital/police**
- **Menu items**

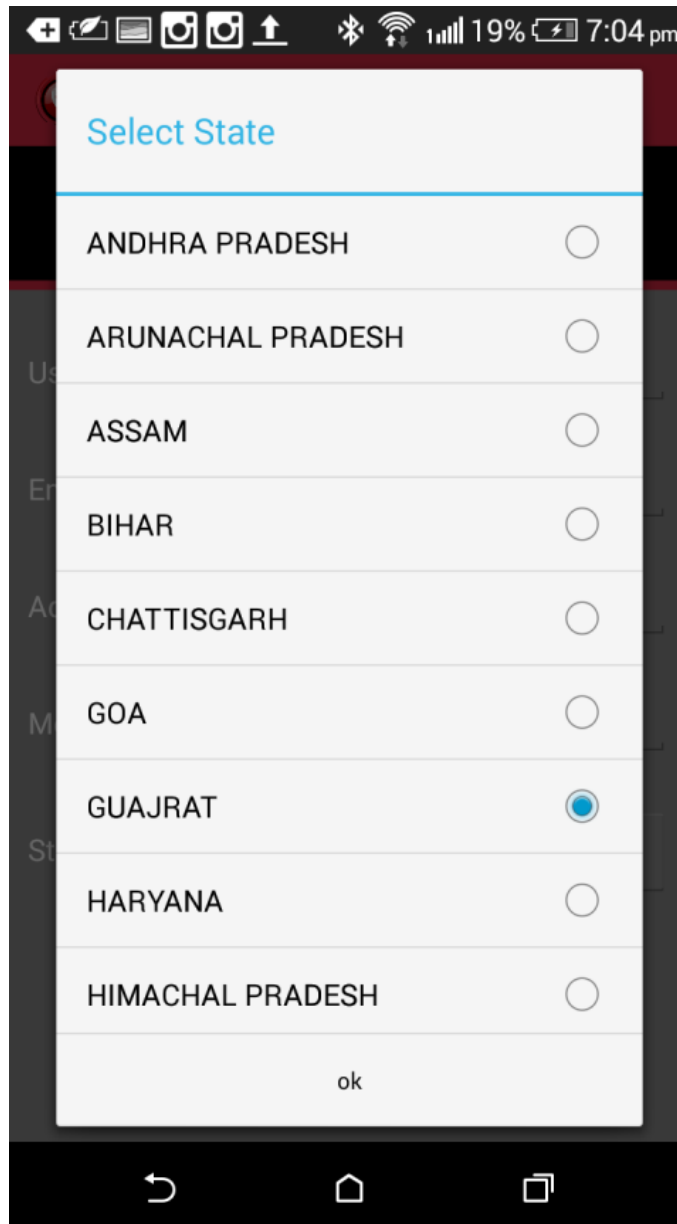
## Chapter-4

### Title: Application Design

#### 4.1 Signup page:

##### 4.1.1 User Registration

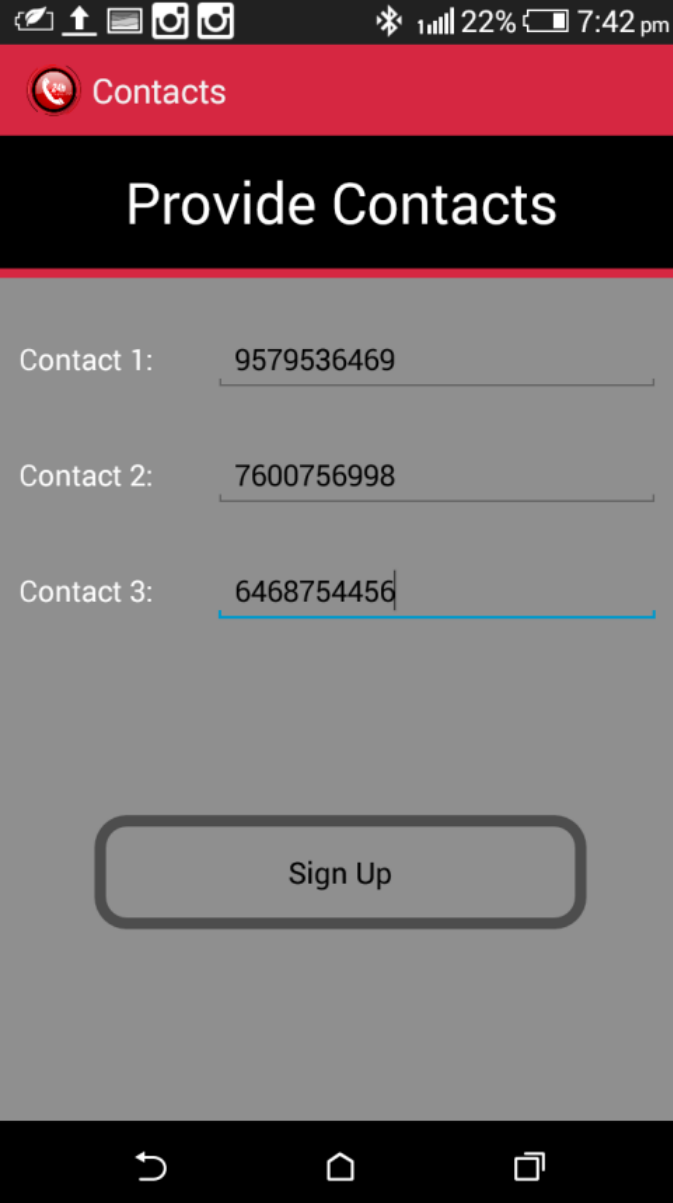
The screenshot shows a mobile application interface for user registration. At the top, there is a red header bar with a circular icon containing a red 'X' and the text 'Signup'. Below this is a black title bar with the text 'User Registration'. The main form area has a light gray background. It contains five input fields: 'Username:' with the value 'rahul gurjar', 'EmailID:' with the value 'rahulgurjar4606@yahoo.com', 'Address:' with the value 'h/9 vallabh appt', 'Mobile No:' with the value '7600716558', and 'State:' with a dropdown menu labeled 'Select state'. A large, rounded rectangular button labeled 'Next' is positioned below the form fields. At the bottom of the screen, there is a black navigation bar with three white icons: a back arrow, a home icon, and a recent apps icon. The status bar at the very top shows various system icons, including signal strength, Wi-Fi, and battery level (19%), along with the time 7:04 pm.



- Enter the user name
- Enter the email address
- Enter user's address
- Enter user's mobile number
- Select the state of the user(as shown in figure 2)
- Now user have to select the state from the given list.
- And finally select the next button.
- After user enters all this user registration details this page will redirect to the next page which is contact provider.



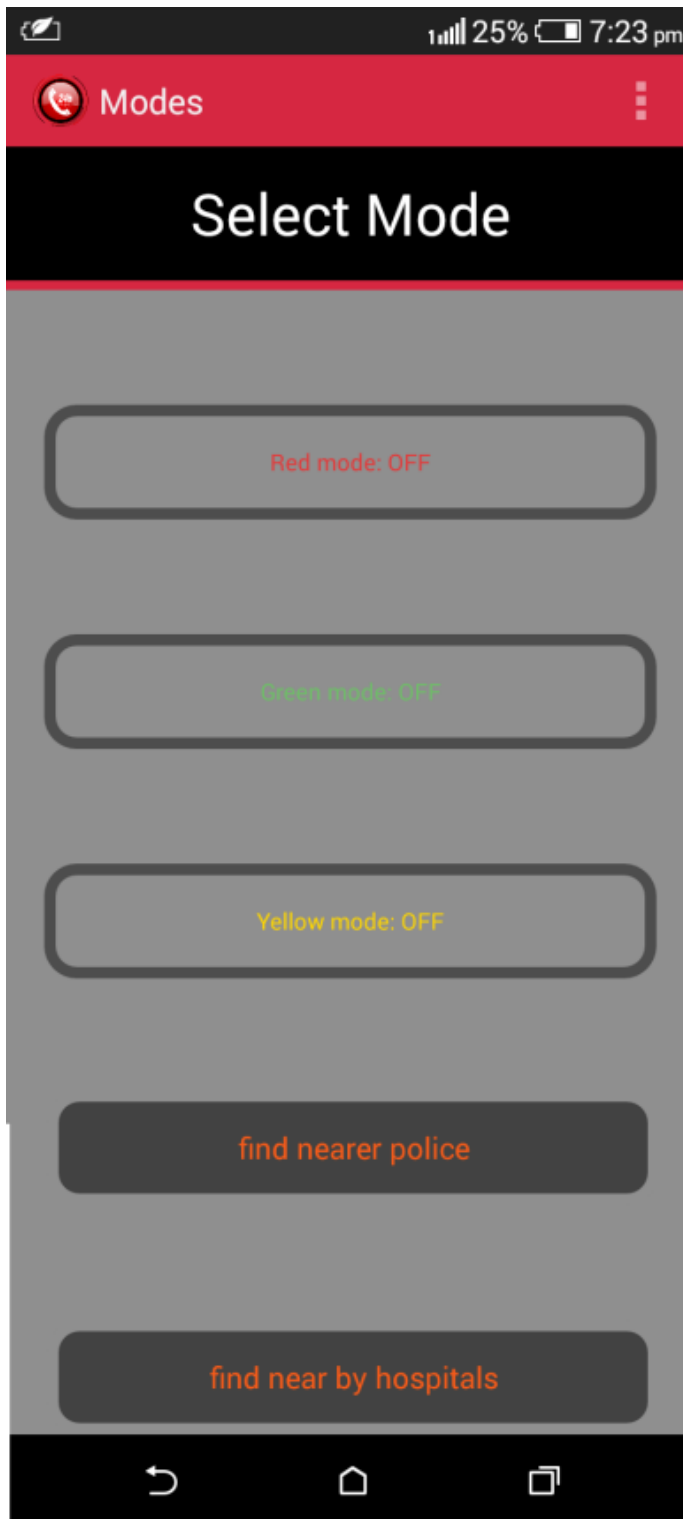
### 4.1.2 Provide Contacts:



The screenshot shows a mobile application interface for providing contacts. At the top, there is a status bar with icons for signal, battery (22%), and time (7:42 pm). Below the status bar is a red header with a circular icon and the text 'Contacts'. The main title 'Provide Contacts' is displayed in white on a black background. The form consists of three input fields labeled 'Contact 1:', 'Contact 2:', and 'Contact 3:'. The first two fields contain the numbers '9579536469' and '7600756998' respectively. The third field contains '6468754456' and has a blue underline. Below the input fields is a large, rounded rectangular button labeled 'Sign Up'. At the bottom of the screen is a black navigation bar with three white icons: a back arrow, a home icon, and a recent apps icon.

- In this page user have to enter the numbers to whom he/she wants to send the sms.
- In which this number will be helpful for the user to give the notification of the user's current location to this number.
- In short , user's current location with latitude and longitude will be send to those numbers.
- User can specify maximum three numbers.
- All this number should be valid.

## 4.2- Mode selection



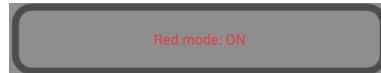
- This is the main page of this application.
- There are three modes , these modes are shown in the togglebutton.

- These toggle button of this mode are described below.
- Initially all these modes are unchecked.

### 1 - Toggle button for red mode:

There are two conditions for red mode :

- Red mode is checked.(fig 1.1)



- Red mode is unchecked.(fig 1.2)



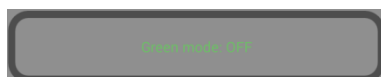
### 2 - Toggle button for green mode:

There are two conditions for green mode:

- Green mode is checked.(fig 2.1)



- Green mode is unchecked.(fig 2.2)



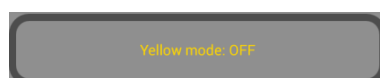
### 3 - Toggle button for yellow mode:

There are two conditions for yellow mode:

- Yellow mode is checked.(fig 3.1)



- Yellow mode is unchecked(fig 3.2)



- These are the toggle buttons which are shown above.
- First of all , all the modes are unchecked as shown in figure 1.2 , 2.2 , 3.2. Then user selects the mode as per his/her requirements for the services.
- Initially user can choose either the red or yellow mode. Green mode cannot be selected. By assigning property “green.Setclickable(false)”.

## MODES

### Red Mode:

- When the red mode is selected then this mode will be checked as show in fig 1.1 . then all the services such as voice recording and user location fetching , sms sending are provided.
- To deactivate this mode user will select the green mode and this safe mode will activates shown inn fig 2.1.and this red mode will set as shown in fig 1.2.

### Yellow Mode:

- Similarly , if the user feels doubtable situation then he/she choose yellow mode and this mode will be checked as shown in fig 3.1 .and the timer will be activated.
- after this timer will expire this yellow mode will be deactivated and unchecked as shown in fig 3.2 and red mode will be activated. and the services will be provided same as described above in this mode.

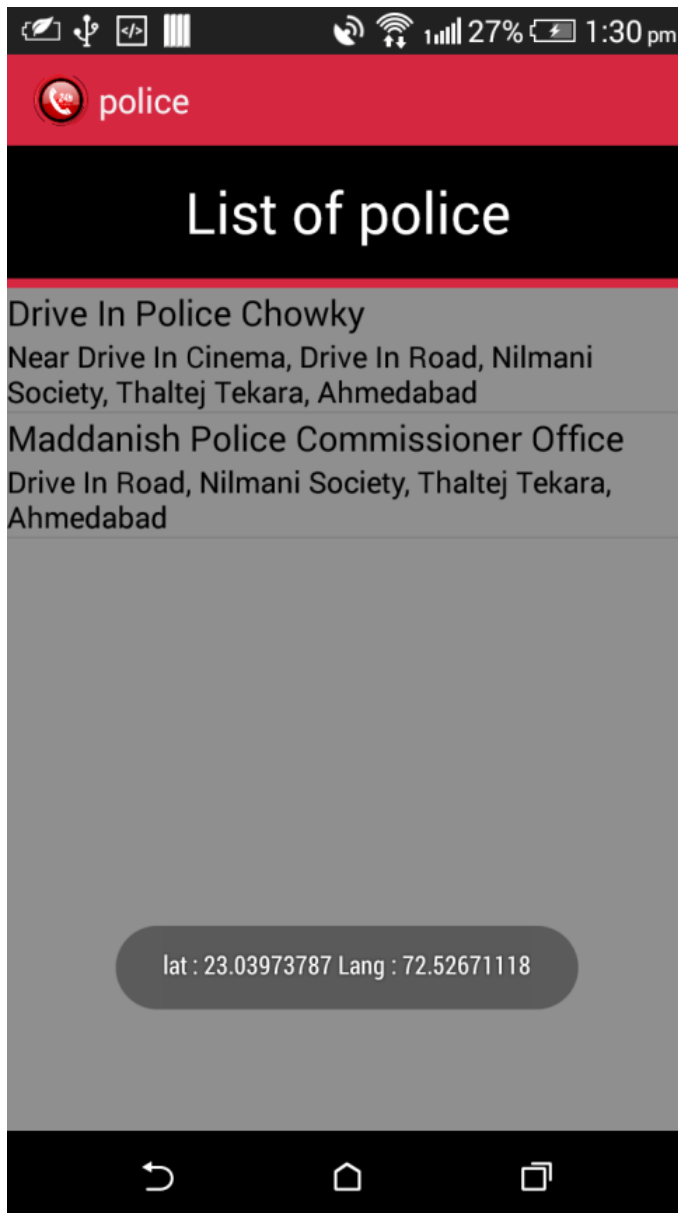
### Green mode:

- Green mode cannot be activated initially. To activate this mode first of all any one of the mode should be active such as red or yellow.
- If the red mode is active then user can activate this green mode and this will checked as shown in fig 2.1 . And the red mode will be deactivated.

## 4.3 - Find nearby hospital/police

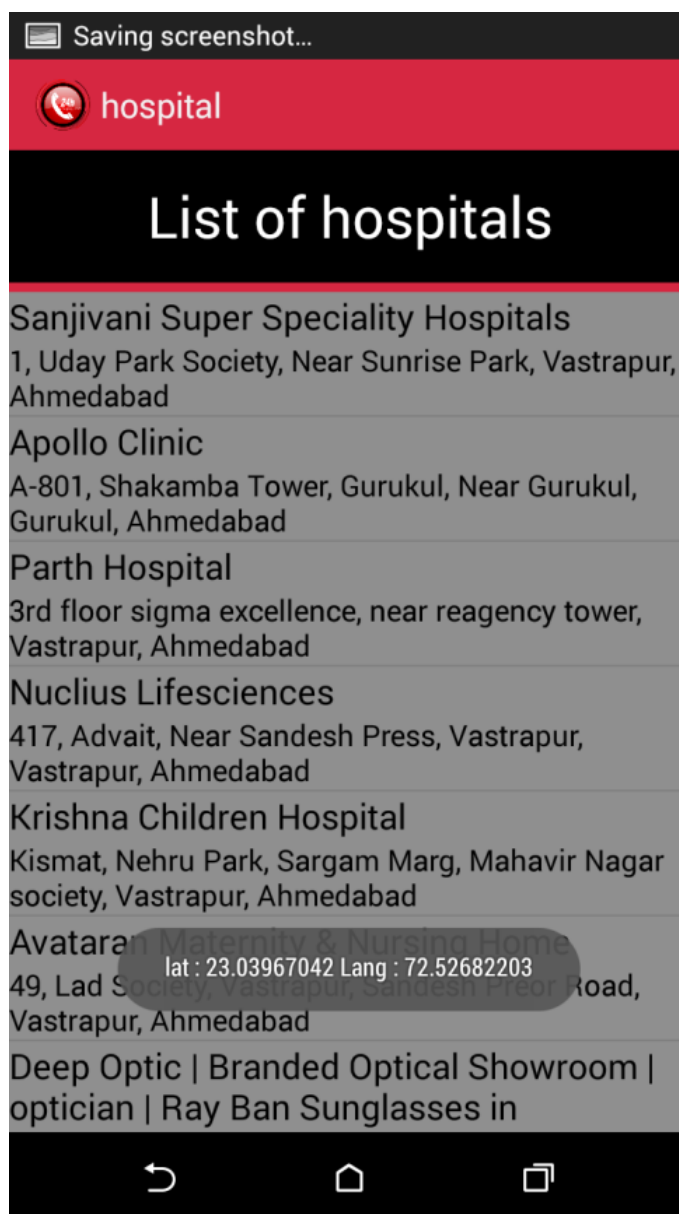
### 4.3.1 - Find nearby police:

- When this button will be pressed user's current latitude and longitude will be fetched and on the basis of this the list of nearby police stations will be displayed.
- List of police stations with latitude and longitude as shown in figure().
- These is the list of police stations with name and address.
- This list is generated from the Google API for police.

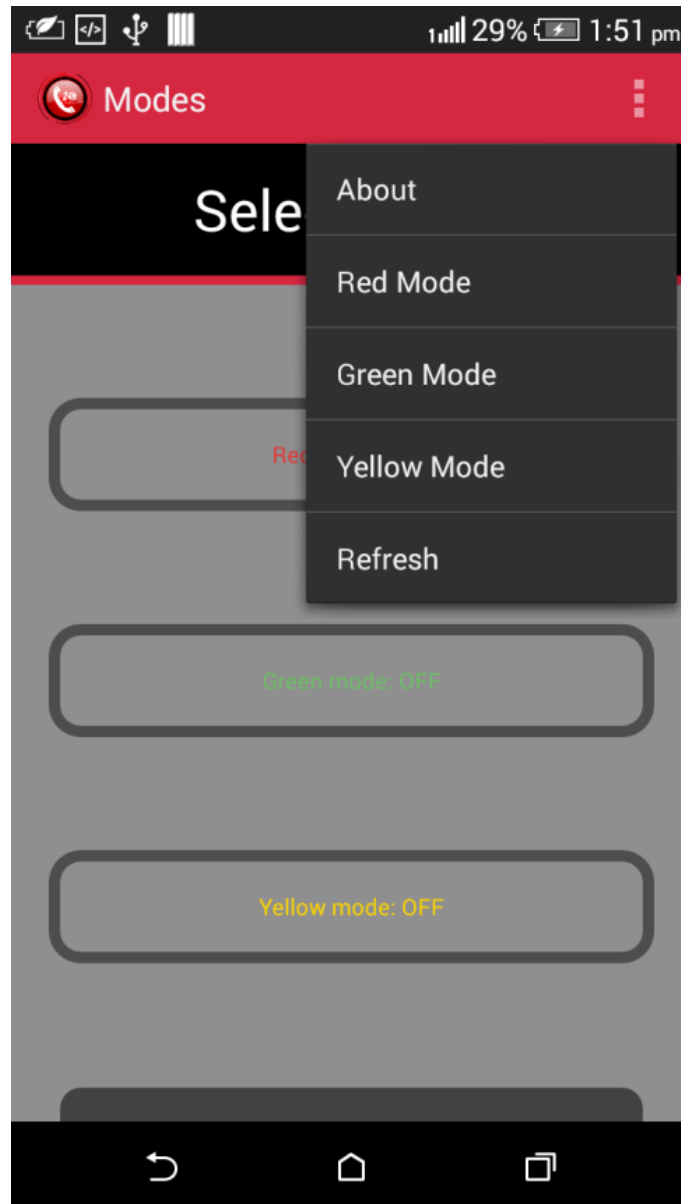


### 4.3.2 - Find nearby hospitals:

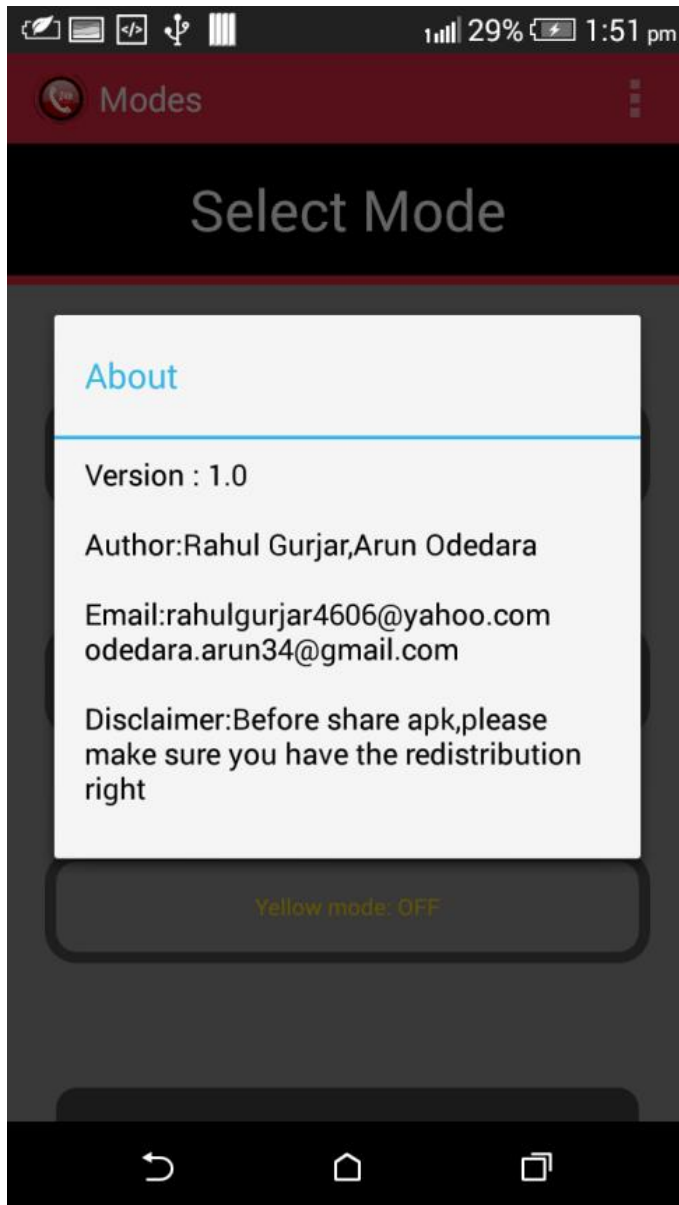
- When this button will be pressed user's current latitude and longitude will be fetched and on the basis of this the list of nearby hospitals will be displayed.
- List of hospitals with latitude and longitude is shown in
- These is the list of hospitals with particular name and address.
- This list is generated from the Google API for hospital.



## 4.4 - Menu items

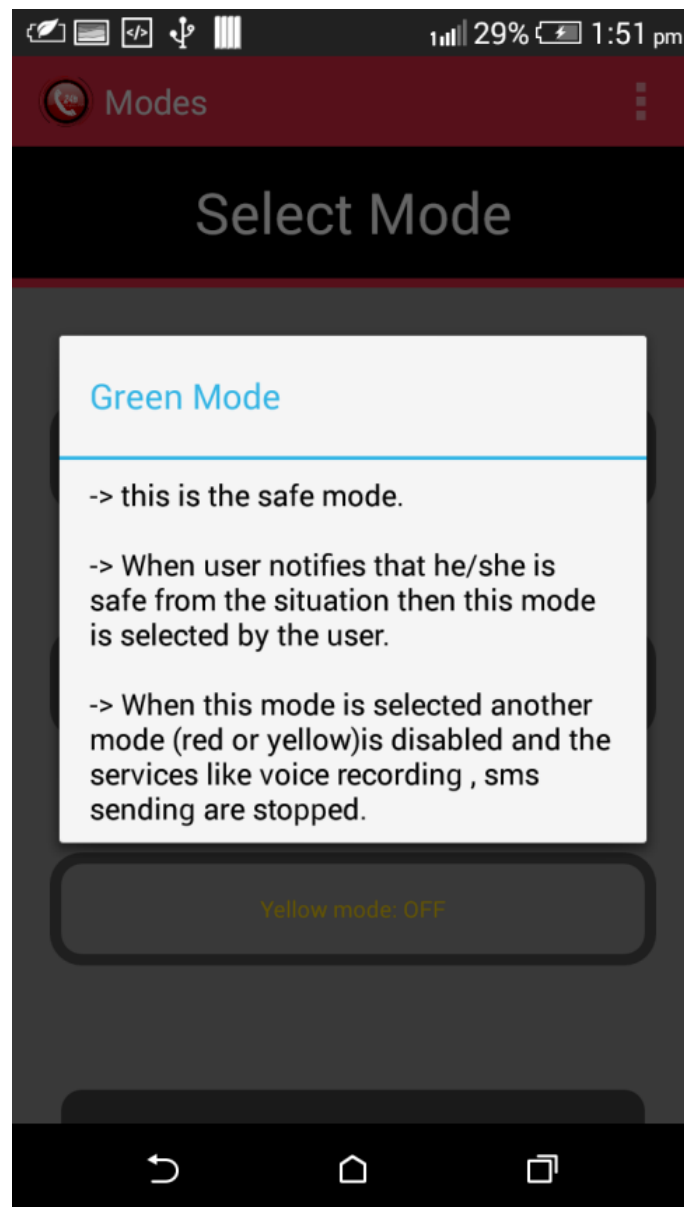


## About dialogue

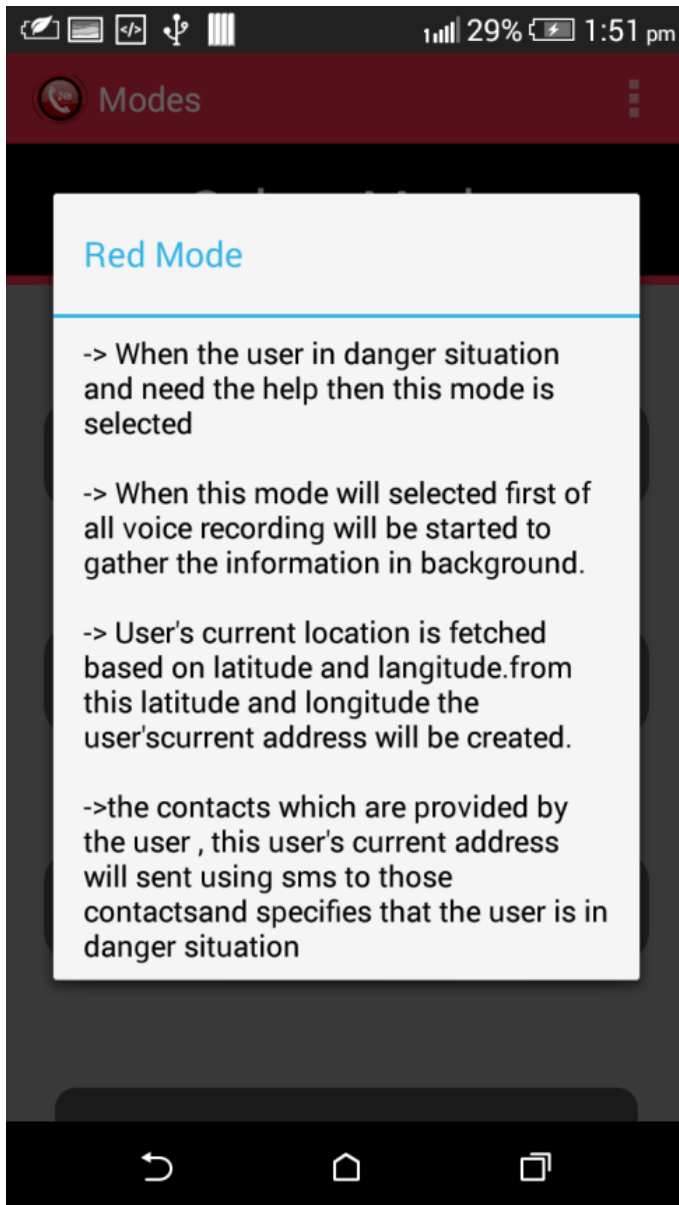




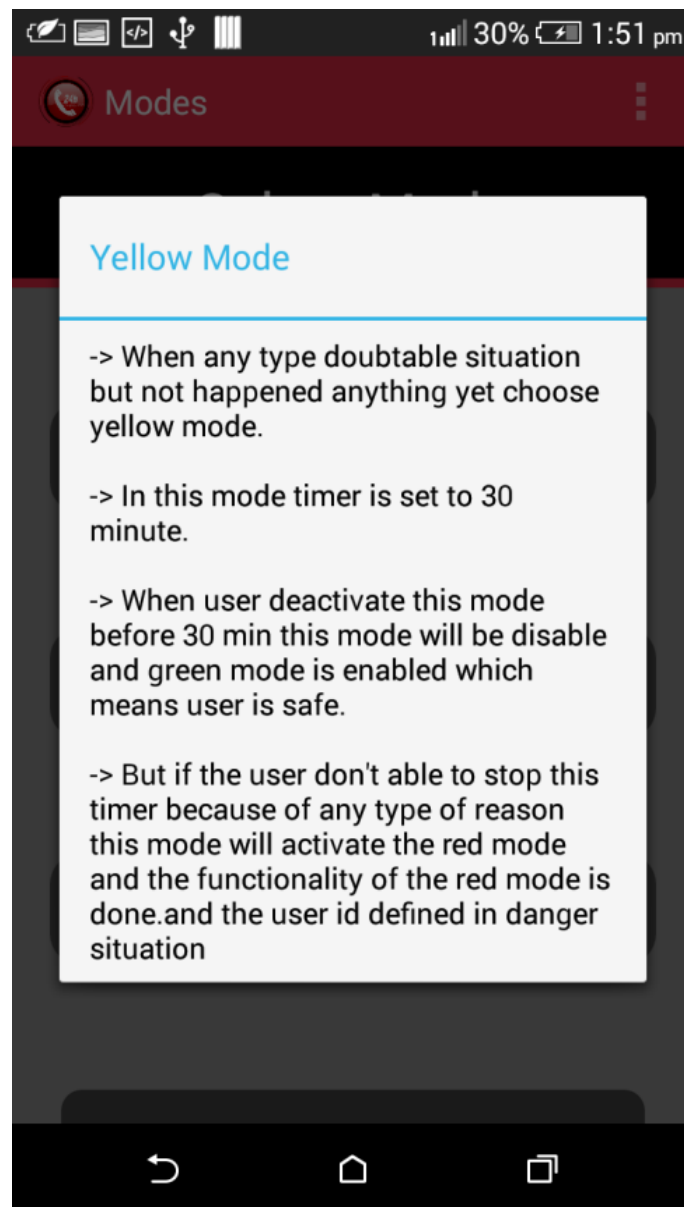
## Green mode dialogue



## Red mode dialogue



## Yellow mode dialogue



## **CHAPTER - 5**

### **Title: System Analysis**

- **Study of current system**
- **weakness of current System**
- **Requirements of new system**
- **Assumption and dependencies**
- **User Requirement**
- **Functional requirements**
- **Non Functional Requirements**

## Chapter- 5

### System Analysis

#### 5.1 Study of current system

- Provide notification to receiver via SMS.
- Sends location of user to their selected contact list.
- User will activate option and in danger situation system will send location and message to contact list.

#### 5.2 weakness of the current systems:

- Cannot notify receiver while no network available.
- Cannot send Location while no balance available in mobile.
- Does not support internet messaging.
- Does not provide compatible

#### 5.3 Requirements of new system:

- Does not send message via internet.
- Does not display maps.
- Will not send message to nearby police station.
- Does not provides various modes related to the user situation.
- Does not provide audio recording of the crime situation.

#### 5.4 Assumption and dependencies:

- It can be only used at network available areas.
- Depends on mobile balance.
- User is having compatible device with android system.
- User must have GPS facility for tracking and sending location.

### 5.5 User Requirement :

- user can be register on the system and fill all the data
- user can change detail if information is incorrect.
- user can change his login password at any time for security reason.
- user can request to for his/her password if he/she forgotten the password.
- User can set timer for yellow mode.

### 5.6 Functional requirements :

- App will authenticate every user by providing unique Id.
- App will provide a new and unique password for each user.
- App will generate a new password to each access of particular client.
- App will provide accessibility or visibility to only authenticated users.

### 5.7 Non Functional Requirements :

- Maintainability - Maintain user information and his/her data properly.
- Security - Only authenticated user can use this application. Without sign up process it can not be possible.
- Portability – application will be work on several android platforms Smartphones above 4.3(jelly bean).

## Chapter 6

### Conclusion & Future work

#### 6.1 Conclusion

- This system has been made basically for making all e-commerce solutions through website. This helps users to making use of this system whenever user is in Danger Situation.
- He/She will be able to notify the receiver about his/her situation.

#### 6.2 Future Work

We expect to expand and add some of the features to this system in near future.

These features are:

- We can add facility for user to use application just bases on internet connectivity.
- We can add function to send message via internet so, null balance problem will be satisfied.

# **APPENDIX - A**

## **BUSINESS MODEL CANVAS**

### **ANALYSIS REPORT**



**GUJARAT TECHNOLOGICAL UNIVERSITY**

Chandkheda, Ahmedabad



**L.J INSTITUTE OF ENGINEERING AND TECHNOLOGY**

A  
Business Model Canvas Report  
On

**E-Helper**

B. E. Semester – VIII(Computer Engineering)

Submitted by

**GURJAR RAHUL PRAKASHBHAI**

110320107081

**ODEDARA ARUNNKUMAR KESHAVHAI**

110320107070

**Name of Internal Guide:**

Prof. Mayuri Patel

**Head Of Department:**

Dr. Seema Mahajan

**Academic Year  
(2014-2015)**

**L.J INSTITUTE OF ENGINEERING AND TECHNOLOGY  
COMPUTER ENGINEERING**



**CERTIFICATE**

**This is to certify that the work done entitled “*E-Helper*” has been carried out by *Gurjar Rahul Prakashbhai (110320107081)* and *Odedara Arunkumar Keshavbhai (110320107070)* under subject Project-II in Semester – VIII during the academic year 2014-15.**

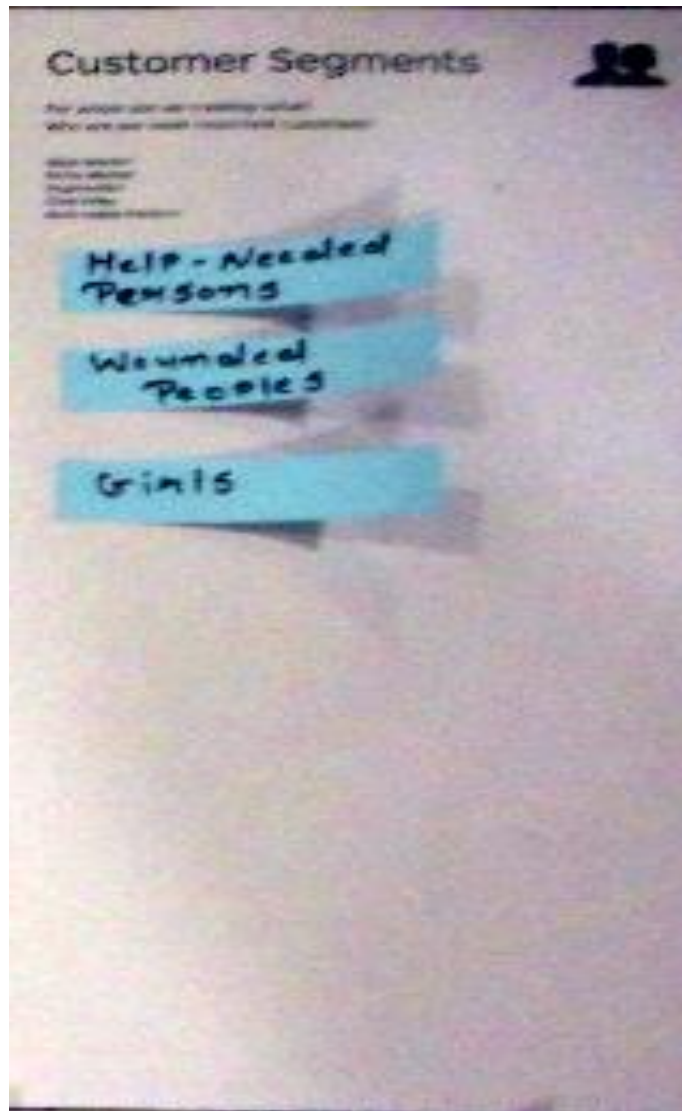
**Date:**

**Name Of Internal Guide:**  
Prof. Mayuri Patel

**Head Of Department:**  
Dr. Seema Mahajan



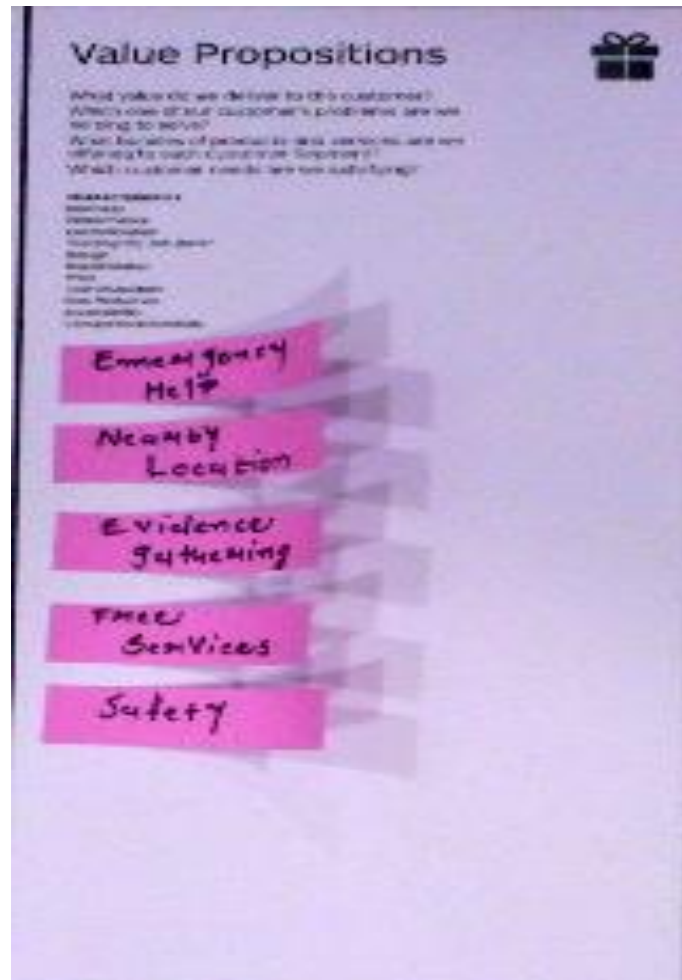
## 1.1 Customer Segments:



**Fig-1.1**

- (a) Help Needed Persons.
- (b) Wounded Persons.
- (c) Girls.

## 1.2 Value Propositions:



**Fig-1.2**

- (a) Emergency Help.
- (b) Nearby Location..
- (c) Evidence Gathering.
- (d) Free Services.
- (e) Safety.

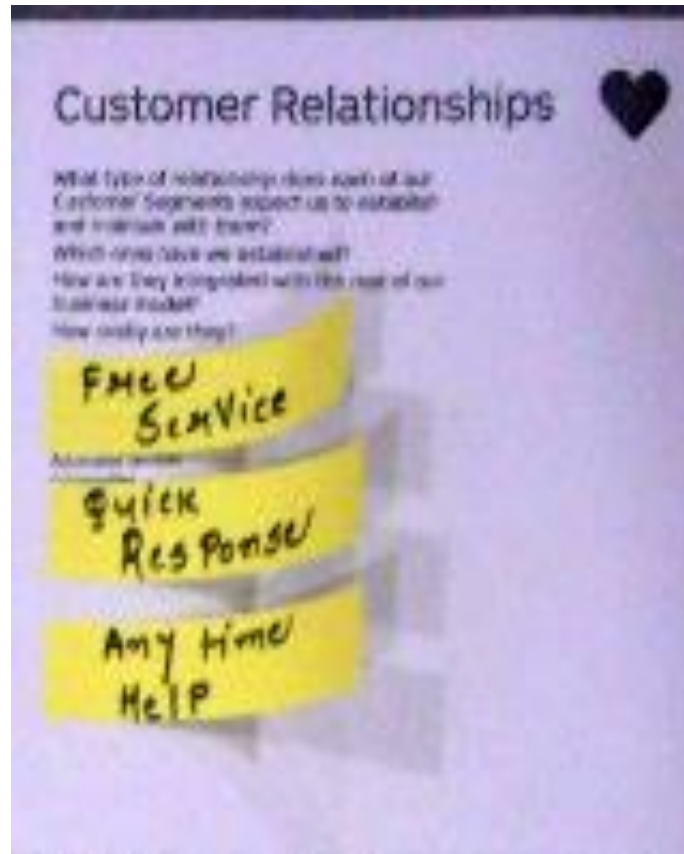
### 1.3 Channels:



**Fig-1.3**

- (a) Updates.
- (b) Internet.
- (c) Social Sites.
- (d) Newspaper.
- (e) PlayStore.

### 1.4 Customer Relationship:



**Fig-1.4**

(a)Quick Response.

(b)Anytime Help.

(c)Free Services.



## 1.5 Revenue Streams:

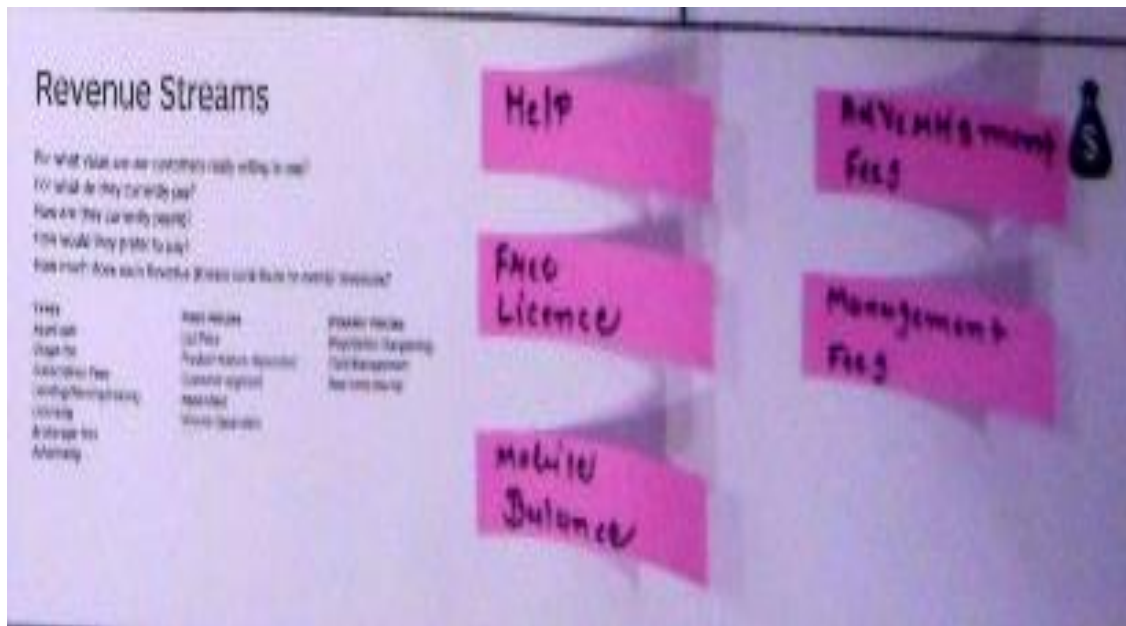


Fig-1.5

- (a) Free License.
- (b) Mobile Balance.
- (c) Database Management Fees.
- (d) Advertisement Fees.



### 1.6 Key Activities:



**Fig-1.6**

- (a) Help Providing.
- (b) Message Sending.
- (c) Location Gathering.
- (d) Evidence Recording.
- (e) Mode Selection.

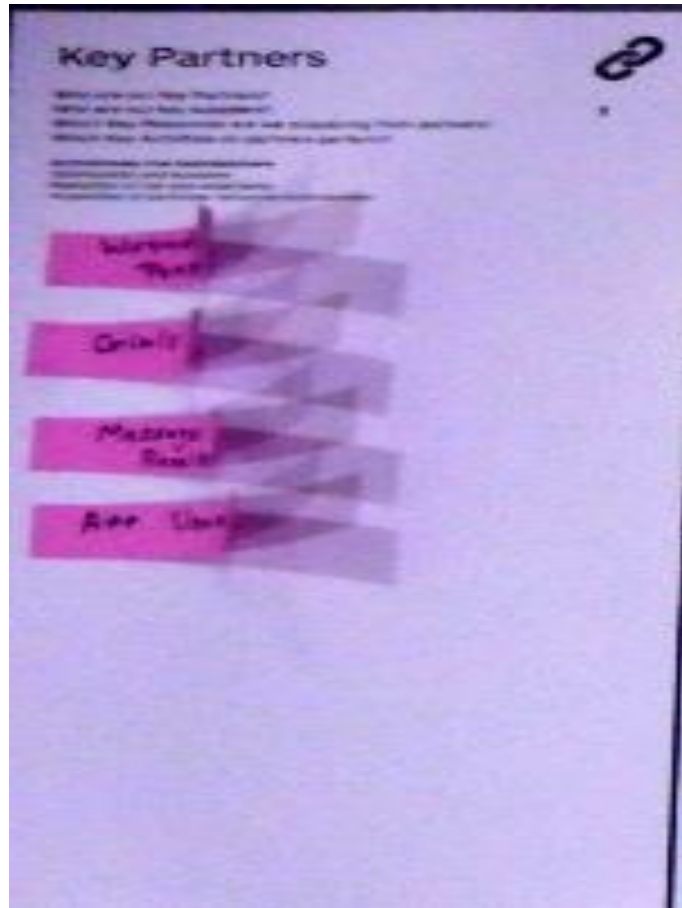
### 1.7 Key Resources:



**Fig-1.7**

- (a) Receiver Info.
- (b)GPS.
- (c)Connectivity.
- (d)Acquired Balance.

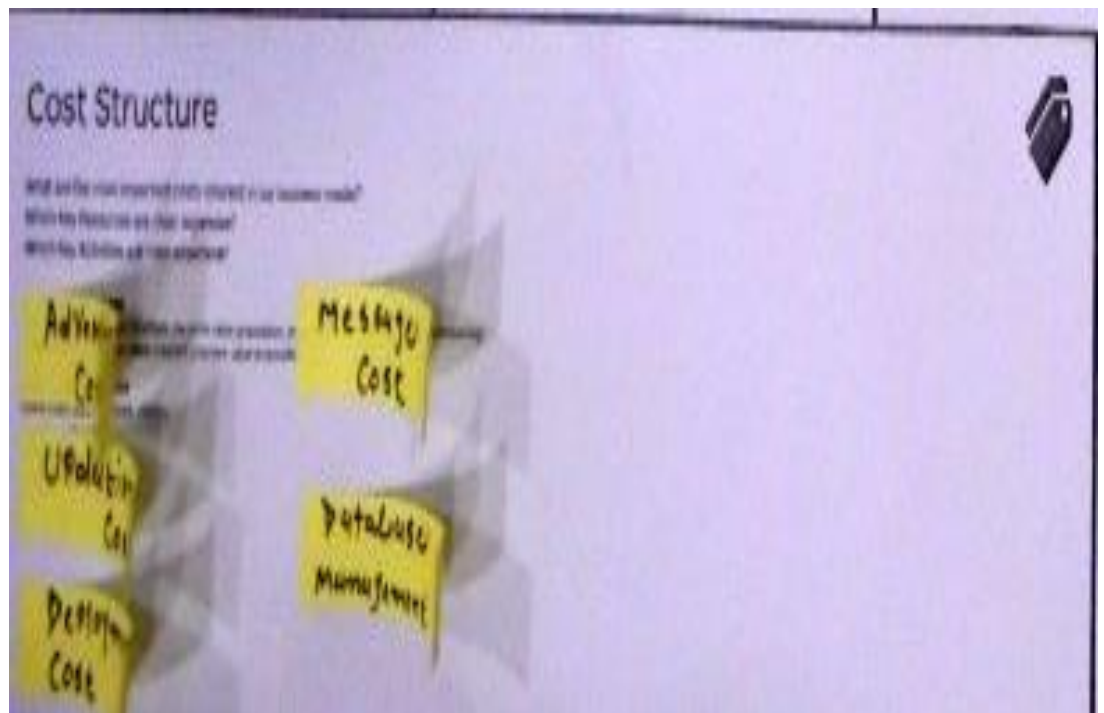
## 1.8 Key Partnerships:



**Fig-1.8**

- (a)Users.
- (b)Message Receiver.
- (c)Accident-Patients.
- (d)Advertiser.

## 1.9 Cost Structure:



**Fig-1.9**

- (a) Advertisement Cost.
- (b) Updating cost.
- © Message Cost.
- (d) Database Management Cost.

# **APPENDIX - B**

## **PMMS ACTIVITY**

- **PPR REPORT 1**
- **PPR REPORT 2**
- **PPR REPORT 3**
- **PPR REPORT 4**

## PPR Report – 1

20/05/2015

Periodic Progress Report (PPR) Details

---

Periodic Progress Report : First PPR

Project E\_Helper  
:

Status : Reviewed (Freeze)

What Progress you have made in the Project ?

Designing.

What challenge you have faced ?

Database connectivity. Layout Management.

What support you need ?

sql applications. internet for database connection.

Which literature you have referred ?

Android Manuals. Online examples to clear concepts.

Comment by Internal Guide :

Dear Arun, Upload your Documents here and specify the functionalities what you have done in last 15 days.

## PPR Report – 2

20/05/2015

Periodic Progress Report (PPR) Details

---

**Periodic Progress Report : Second PPR**

**Project E\_Helper**  
:

**Status :** Submitted (Freeze)

**What Progress you have made in the Project ?**

I have developed sign up menu screen and contact detail screen for my application.

**What challenge you have faced ?**

Layout designing problems.

**What support you need ?**

Little Guidance from Faculty.

**Which literature you have referred ?**

Android reference Books.

## PPR Report – 3

20/05/2015

Periodic Progress Report (PPR) Details

---

Periodic Progress Report : Third PPR

Project E\_Helper  
:

Status : Submitted (Freeze)

**What Progress you have made in the Project ?**

Now, I have done Graphical designing of my application. Customize action-bar and buttons developing done in this period.

**What challenge you have faced ?**

Problems in customizing my own buttons.

**What support you need ?**

No need.

**Which literature you have referred ?**

Android reference books and some online examples for customizing.

## PPR Report - 4



# E-Helper

---

20/05/2015

Periodic Progress Report (PPR) Details

---

**Periodic Progress Report : Forth PPR**

**Project E\_Helper**  
:

**Status :** Submitted (Freeze)

**What Progress you have made in the Project ?**

I am developing application to connect to database. We have to display address of user and send location from saving values in database.

**What challenge you have faced ?**

Database connectivity problems. Time delay in sending location.

**What support you need ?**

No Need.

**Which literature you have referred ?**

Tops Android Guide and reference books for android.

<http://projects.glu.ac.in/SitePages/PeriodicProgressReportDetails.aspx?enc-KgMkUOQZdOZqE/LBw9LPiOgqMYDaL/1GEyYw0MqDRnl->

1/1

# Appendix C

## PDE Reports

- PDE – 1
- PDE – 2
- PDE – 3

## PDE – 1

GIC Patent Drafting Exercise

Team ID: 14947

## GTU Innovation Council

### Patent Drafting Exercise (PDE)

**FORM 1**  
**THE PATENTS ACT 1970**  
**(39 OF 1970)**  
**&**  
**THE PATENTS RULES, 2003**  
**APPLICATION FOR GRANT OF PATENT**

(FOR OFFICE USE ONLY)

Application No: \_\_\_\_\_

Filing Date: \_\_\_\_\_

Amount of Fee paid: \_\_\_\_\_

CBR No: \_\_\_\_\_

**1. Applicant(s) :**

ID	Name	Nationality	Address	Mobile No.	Email
1	Arunkumar Keshavbhai Odedara	Indian	Computer Engineering , L. J. Institute Of Engineering And Technology, Ahmedabad , Gujarat Technological University.	9904303431	odedara.arun34@gmail.com
2	Rahul Prakashkumar Gurjar	Indian	Computer Engineering , L. J. Institute Of Engineering And Technology, Ahmedabad , Gujarat Technological University.	7600716558	rahulgurjar4606@yahoo.com

**2. Inventor(s):**

**Note :** This is just a mock Patent Drafting Exercise (PDE) for semester 8, BE students of GTU.  
 These documents are not to be submitted with any patent office.

Page 1 of 4

## PDE – 2

GIC Patent Drafting Exercise

Team ID: 14947

**FORM 2  
THE PATENTS ACT, 1970  
(39 OF 1970)  
&  
THE PATENTS RULES, 2003  
PROVISIONAL SPECIFICATION**

**1. Title of the project/invention :**

E\_Helper

**2. Applicant(s) :**

Arunkumar Keshavbhai Odedara , ( Indian )

Address :Computer Engineering , L. J. Institute Of Engineering And Technology, Ahmedabad , Gujarat  
Technological University.

Rahul Prakashkumar Gurjar , ( Indian )

Address :Computer Engineering , L. J. Institute Of Engineering And Technology, Ahmedabad , Gujarat  
Technological University.



**3. Preamble to the description :**

The following specification describes the invention.

**Note :** This is just a mock Patent Drafting Exercise (PDE) for semester 8, BE students of GTU.  
These documents are not to be submitted with any patent office.

Page 1 of 4

## 4. Description :

### a. Field of Application / Project / Invention :

Android Application

### b. Prior Art / Background of the Invention / References :

Mobile application to help people in emergency conditions.

### c. Summary of the Invention/Project :

User can use this application to protect him/her self in any type of danger or emergency situation by choosing any of this modes (RED, YELLOW, GREEN) as per the user's requirement and need. By using this application user can notify their friends and family members about their situations, that is if he/she is in danger situation or not. Based on this situation the working of application is done.

### d. Objects of the Invention/Project :

User, Server, Database, Message, Location.

### e. Drawing(s) :

### f. Description of the Invention

The application E\_Helper (Be Safe and Fearless) is developed to help the girls and women who are stuck in any critical situation. It has been serving as a messaging and information application. This application provides single click Keys to continuous send SMS with location to your contacts in case of any emergency. The message delivered to the recipient will have your GPS location and this happens with ONE single click. You can reach out to people who can help you during an emergency situation.

### g. Examples

### h. Unique Features of the Project

Send Location of mobile to selected contacts in danger situations. user can find near by hospitals list and near by police stations.

## 5. Date & Signature :

**Note :** This is just a mock Patent Drafting Exercise (PDE) for semester 8, BE students of GTU. These documents are not to be submitted with any patent office.

Page 2 of 4

Date : 20 - May - 2015

Sign and Date  
Arunkumar  
Keshavbhai Odedara

Sign and Date  
Rahul Prakashkumar  
Gurjar

## 8. Abstract of the project / invention :

This application contains three modes safe (green mode), alert (Yellow mode), and danger (Red mode). Safe mode is intent to inform person is safe. Alert mode is intent to inform that the person might be require help but not critical. There is danger around but you are still safe. Once user activate alert mode and if user will not deactivate the alert mode after 30 minutes then alert mode will deactivated and danger mode will activated automatically. Danger mode is intent to inform the person is in critical situation and definitely needs help and in this mode audio recording is also start in background. For access this three mode first of all user needs to configure the setting. In setting users needs to set the message what they want to send and also set the contact list where they want to send. These three modes are available on Home screen for quick access. This action can be invoked during an emergency situation with a single click or touch.

**Note :** This is just a mock Patent Drafting Exercise (PDE) for semester 8, BE students of GTU.  
These documents are not to be submitted with any patent office.

Page 3 of 4



## PDE – 3

GIC Patent Drafting Exercise

Team ID: 14947

**FORM 3**  
**THE PATENTS ACT, 1970**  
**(39 OF 1970)**  
**&**  
**THE PATENTS RULES, 2003**  
**STATEMENT AND UNDERTAKING UNDER SECTION 8**

**1. Declaration :**

I/We, Arunkumar Keshavbhai Odedara ,  
 Rahul Prakashkumar Gurjar ,

**2. Name, Address and Nationality of the joint Applicant :**

Arunkumar Keshavbhai Odedara ( Indian )  
 Address : Computer Engineering , L. J. Institute Of Engineering Ar  
 Technology, Ahmedabad , Gujarat Technological University.

Rahul Prakashkumar Gurjar ( Indian )  
 Address : Computer Engineering , L. J. Institute Of Engineering Ar  
 Technology, Ahmedabad , Gujarat Technological University.

Here by declare:

- (i) that I/We have not made any application for the same/substantially the same invention outside India.  
 (ii) that the right in the application(s) has/have been assigned to,

Name of the Country	Date of Application	Application Number	Status of the Application	Date of Publication	Date of Grant
N/A	N/A	N/A	N/A	N/A	N/A

(iii) that I/We undertake that up to the date of grant of patent by the Controller , I/We would keep him inform in writing the details regarding corresponding application(s) for patents filed outside India within 3 months from the date of filing of such application.

Dated this 17 day of May , 2015.

**3. Signature of Applicants :**

\_\_\_\_\_  
 Sign and Date  
 Arunkumar Keshavbhai  
 Odedara

\_\_\_\_\_  
 Sign and Date  
 Rahul Prakashkumar  
 Gurjar

To  
 The Controller of Patent  
 The Patent Office, at Mumbai.

**Note :** This is just a mock Patent Drafting Exercise (PDE) for semester 8, BE students of GTU.  
 These documents are not to be submitted with any patent office.

Page 1 of 1

### **References**

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<https://en.wikipedia.org>