



BSECURE

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1. PROJECT NAME

BSecure

2. PROJECT DESCRIPTION

Have you ever felt unsafe when walking alone at night, or jogging on a running trail? Have you wondered what can be done if you feel someone is stalking you? Have you ever worried about how you actually would get help in case of an emergency? Our app can help in all these situations.

Our Application **BSecure** is designed to help people who are stuck in any critical situation. It will serve as a messaging and information application. This application provides single click keys to 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.

3. APPLICATION FEATURES

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 require help but is not critical. In danger mode the surrounding is not safe and needs immediate help.

In Green Mode: User can send text a predefined text to emergency contact saved after the time interval set by user.

In Yellow Mode: User can send text a predefined text and location to emergency contact after the time interval set by user.

In Red Mode: User can send text a predefined text, location and email recorded audio to emergency contact after the time interval set by user.

User Profile

User can register one time and login to the application to change the settings of the application.

Customize Message

User can set custom message.

Audio Recording

User can record an audio in case of emergency and send it via email to the saved contacts

Instant Message

User can send message on click of a button.

Widget

Available on home screen for easy launch of all the three mode.

Location Tracking

User is able to send his/her exact location to saved contacts.

Shake Mode

Start red mode and send alerts in the form of SMS/Email when the phone is shaken.

Save Contacts

User is able to save contact information for all the three modes.

4. REQUIREMENT ANALYSIS

i. HARDWARE REQUIREMENT

- a. For developing the application, the following are the hardware requirements:

Processor: Intel P4 and above series.

RAM: 512MB

40 GB or above Hard Disk Drive

- b. For running the application

Device: Android version 2.2 or higher

Minimum space to execute: 35 MB

ii. SOFTWARE REQUIREMENT

- a. For developing the application, the following are the Software Requirements:

Operating System: Windows 7, Windows 8, Windows 10, Linux.

Language: Android SDK, Java.

Tools: Android Studio

- b. For running the application, the following are the Software Requirements:

Operating System: Android 2.2 or higher.

Network: Wi-Fi Internet or cellular Network.

5. ANDROID FEATURES IMPLEMENTED

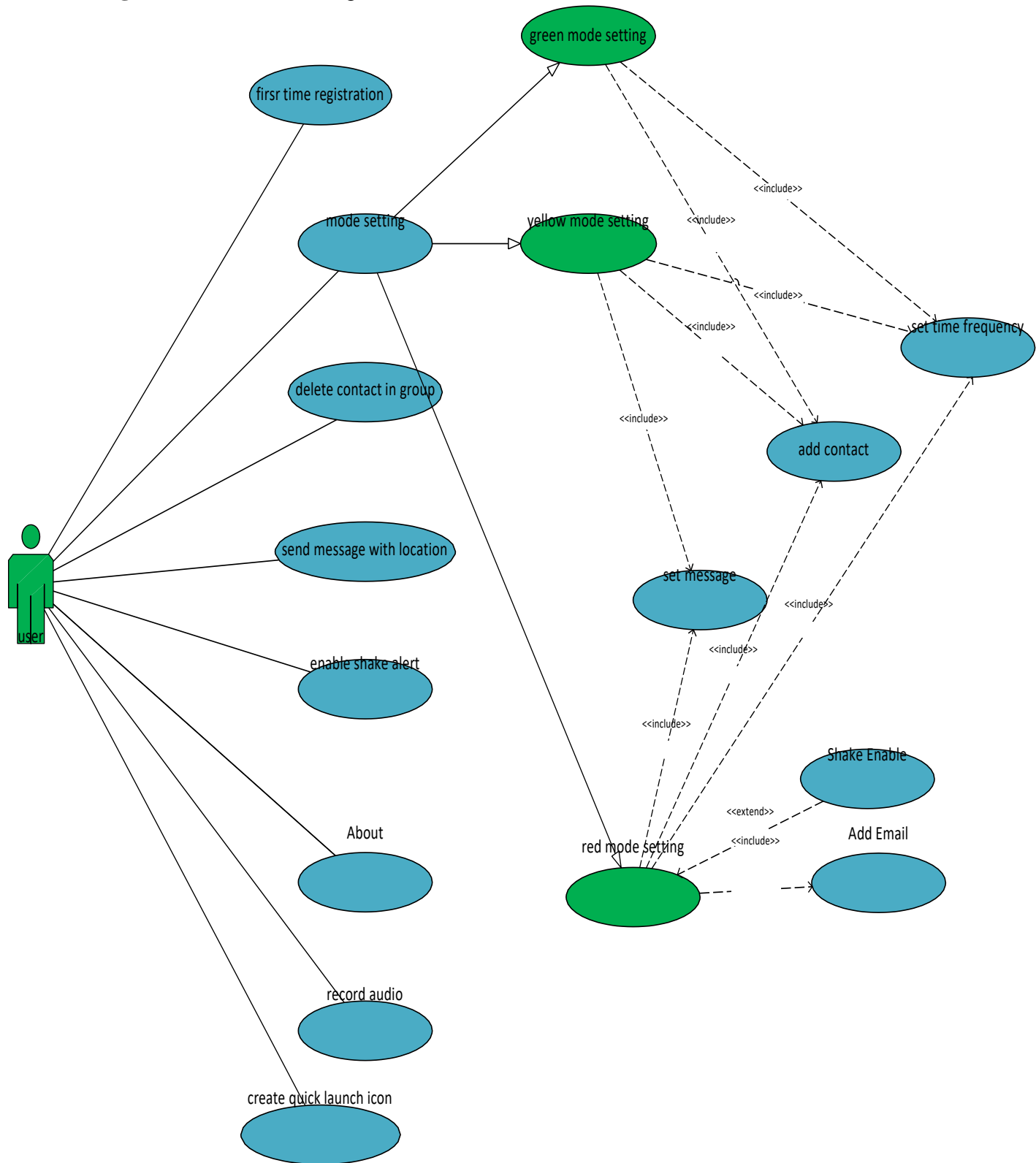
- UI screens
- Activity classes
- Dialogues
- Notifications
- Widgets
- Telephony
- Customized view classes
- Settings
- Data management
- Networking
- GPS
- System services
- Fragment classes
- Broadcast receivers

- Content providers

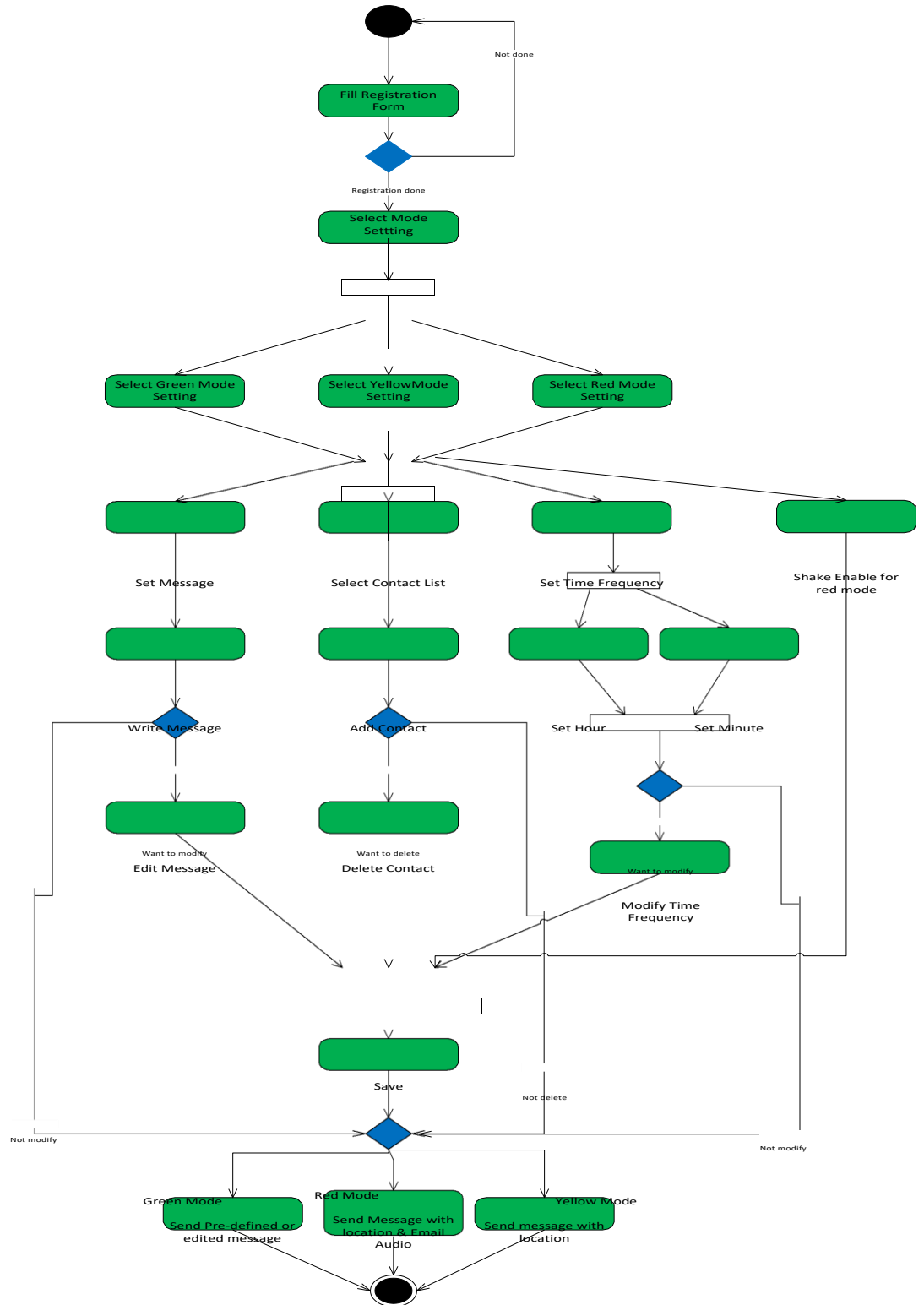
6. VERSION COMPATABILITY

Network/ WIFI enabled android device with Android SDK 11+

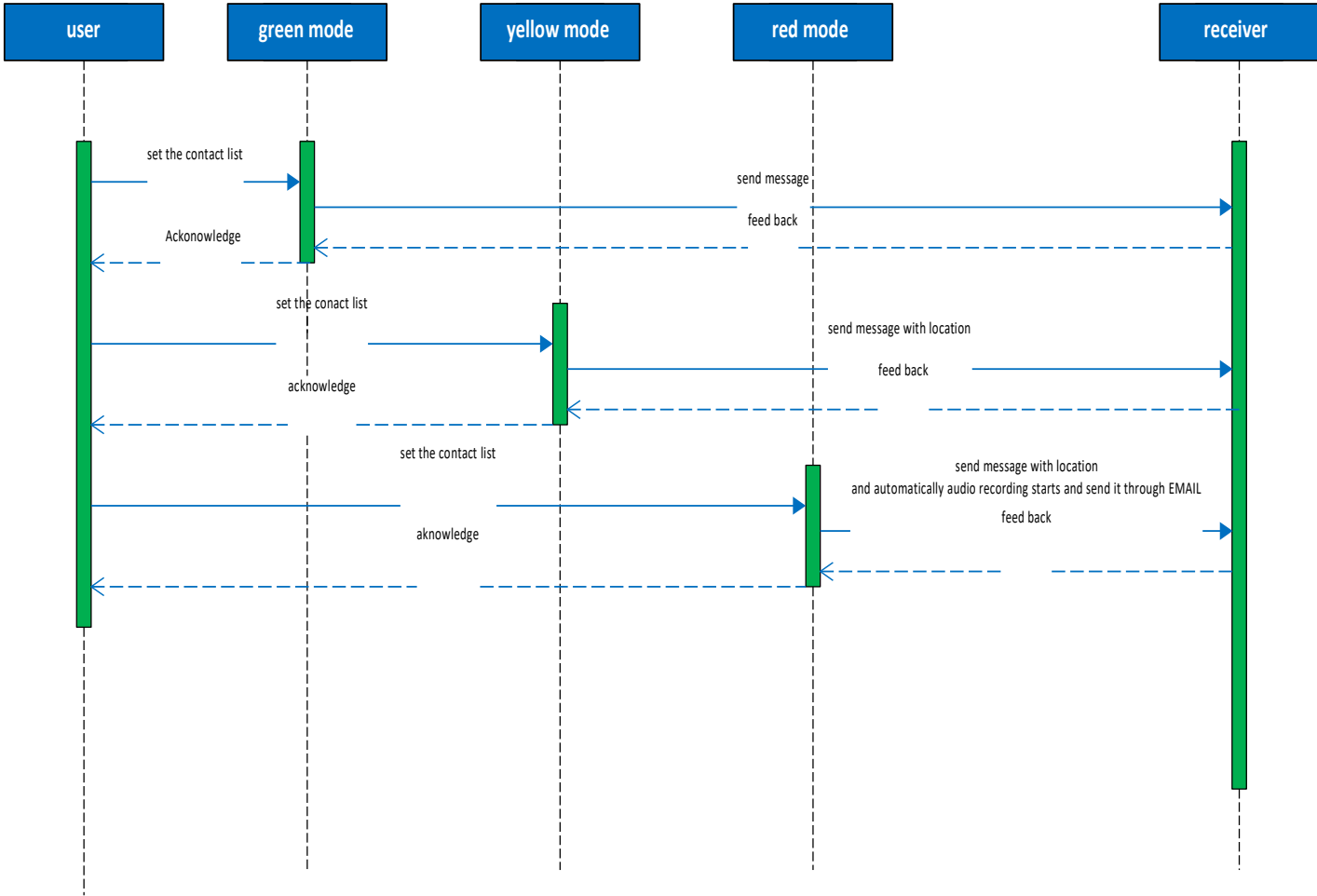
7. UML Diagrams : Use Case Diagram



ACTIVITY DIAGRAM



SEQUENCE DIAGRAM



8. DATABASE TABLES

Green Mode Contact List Table

Field Name	Datatype	Constraint
KEY_ID	INTEGER	PRIMARY KEY
KEY_NAME	TEXT	NOT NULL
KEY_PHONE	TEXT	NOT NULL

Yellow Mode Contact List Table

Field Name	Datatype	Constraint
KEY_ID	INTEGER	PRIMARY KEY
KEY_NAME	TEXT	NOT NULL
KEY_PHONE	TEXT	NOT NULL

Red Mode Contact List Table

Field Name	Datatype	Constraint
KEY_ID	INTEGER	PRIMARY KEY
KEY_NAME	TEXT	NOT NULL
KEY_PHONE	TEXT	NOT NULL
KEY_EMAIL	TEXT	NOT NULL

9. MODULES DESCRIPTION

i. LOCATION TRACKING MODULE

In this module latitude, longitude, timestamp i.e. location information is obtained. When an alert button is clicked it sends the current location to the added contacts.

Features implemented in this module	Get the longitude and latitude of user location using network provider and GPS provider
	Able to stop the application using GPS
	Enable GPS/WiFi
	Shared preference to store GPS data
	To get all geo locations like address, city, and country.

ii. APPLICATION MODE SETTING MODULE

This module includes setting page of different mode (Green, Yellow, and Red). In this user can set the functionality like setting message, adding contact, setting time, saving information and also to enable or disable shake alert.

When user click on set message button message setting dialog box will be opened. In this dialog box user can write a message and also modify the previous message.

When user click on add contact button default contact list of the phone will be opened. From contact list user can select the contact which they want to add as emergency contact to send a message. When user click on set hour and set minute button to set the time interval for sending message. After send one message in which time interval user want to send the message again will set in this dialog box.

Features implemented in this module	Add custom text message settings for all the three modes
	Add Contacts settings for all three modes
	Add timer setting for all three modes
	Shake Enable/ Disable for red mode

iii. ALERT MODULE

Alert Module in bSecure is a critical component in the application, that deals with sending predefined text (in Green Mode, Yellow Mode and Red Mode), capturing the Geo co-ordinates (in Yellow Mode & Red Mode), recording the audio (in Red Mode) and sending alerts to the concerned family member or friends of the user, using SMS/Email service.

This alert service is monitored through a scheduler that keep tracks of when to send the SMS/Email notification. This scheduler is driven by the frequency time set by the user during the application setting configuration. This module also has another critical feature which is, sending alerts when the phone is shaken.

Features implemented in this module	When user adds a widget in home screen and clicks on Red icon in Widget audio starts recording.
	Reading the contacts from Database for all the three modes and utilizing the contact data for SMS/Email
	Using the shared preference reading the application settings to integrate with the Contact Data to compile an alarm to send SMS/ Email
	AlarmManager class utilization and implementation to schedule message
	SmsManager class utilization and implementation to send SMS/ Email.
	Integration of Sms and Scheduler functionality to send SMS/ Email periodically

iv. REGISTRATION AND WIDGET CONFIGURATION MODULE

This module contains user registration, when the user install's this app on his phone, user has to register to this service by providing details like name, phone number, email address and password.

In widget configuration module we need to set unique activity and setting for every widget and single click functionality.

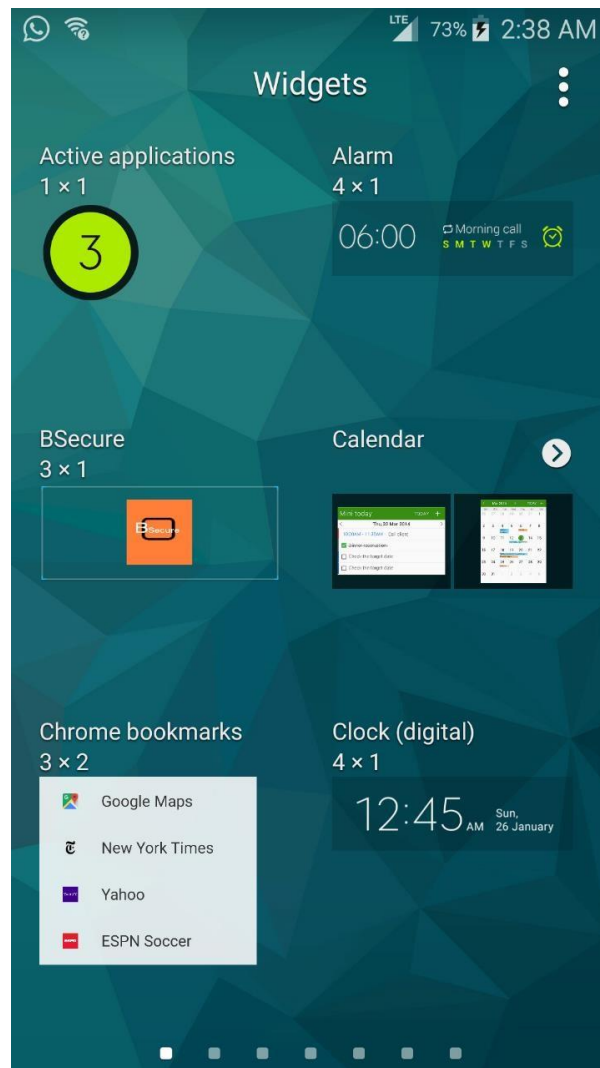
In our project primarily we have three widgets which represent three modes (safe, alert, danger). These three modes have different settings and functionalities. When user clicks on a widget based on settings of that widget the functionalities will run in the background.

Features implemented in this module	Splash screen when app is opened
	User able to take name, mobile number, email id password as input
	User able to store the name, mobile number, email id to Shared Preference Database
	Toast message displayed when one of three inputs are empty
	Toast message when mobile number is not numerical

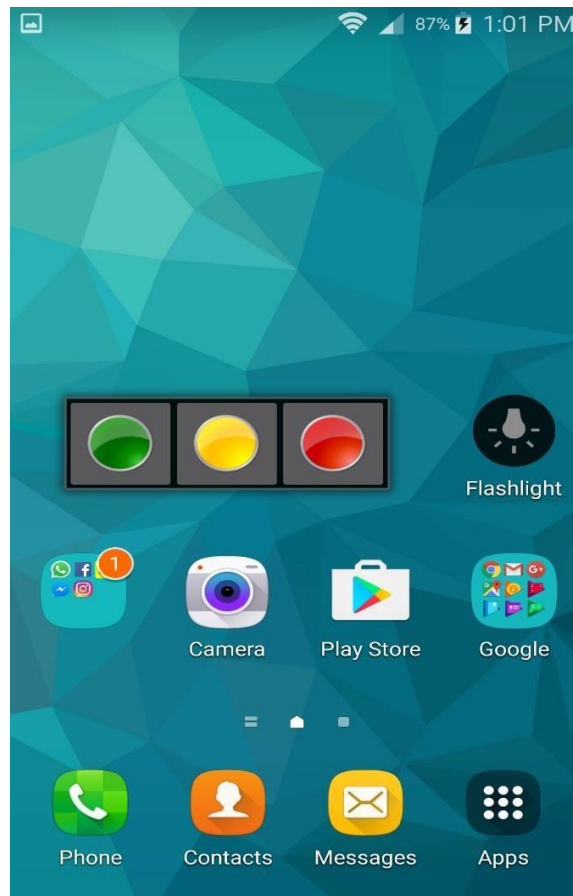
	Toast message when email id is not valid
	Widget customization on home screen

10. SCREENS/TRANSITION FLOW

When BSecure application will install in android phone, it will create one widget whose name is BSecure. After creation of that icon you will need to drag and drop that icon in home screen



When drag and drop the widget icon on the home screen then quick launch icon of BSecure application will display.



When user starts application a splash screen will be displayed for few seconds.



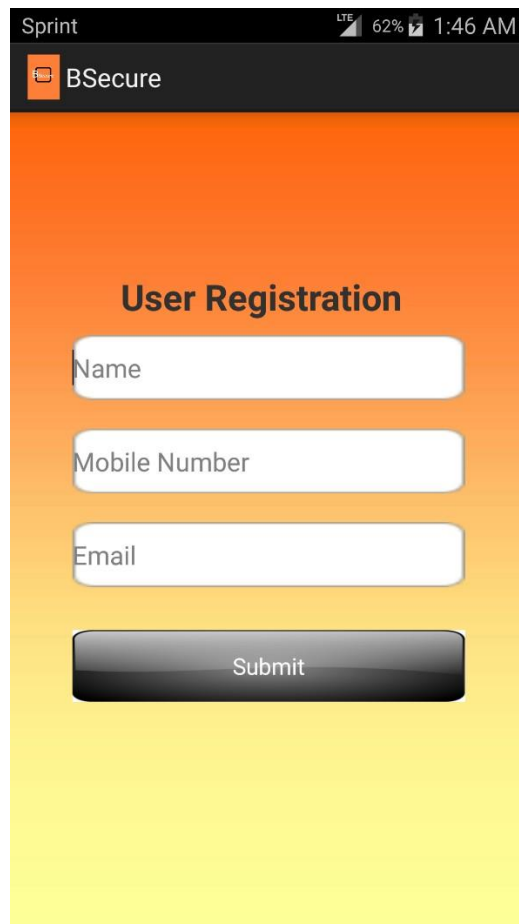
UI COMPONENTS

```
<RelativeLayout>  
    <ImageView>  
</RelativeLayout>
```

Quick launch icon of the application which will display on home screen of the mobile.

When user feel he/she is safe then activate the green mode then message will send. When user feel like he/she is in dangerous situation then activate the yellow mode then message will send with location. When user in dangerous situation then activate the red mode continuous message sending will started with location. Audio recording is also started. Recorded audio will store in BSecure folder in mobile phone which is generated when user installed application 1st time. Message sending and audio recording process is started in background.

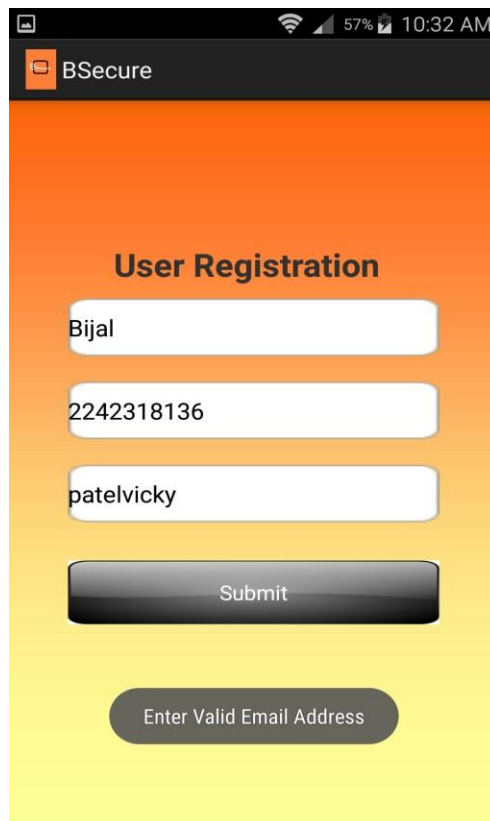
The first screen of application which is shown in below figure. User registration form will open only for first time user. Now user can register, fill up the data shown in form and finally click on submit button. User should register with valid email address and phone number.



UI COMPONENTS

```
<LinearLayout>  
    <TextView> Text: User Registration  
    <EditText> Hint: Name  
    <EditText> Hint: Number  
    <EditText> Hint: Email  
    <EditText> Hint: Email Password  
</LinearLayout>  
<Button> Text: Submit
```

When Email id is not in valid format then toast message will display like “Enter Valid Email Address” which is shown in below figure.



UI COMPONENTS

<LinearLayout>

<TextView> Text: User Registration

<EditText> Hint: Name

<EditText> Hint: Number

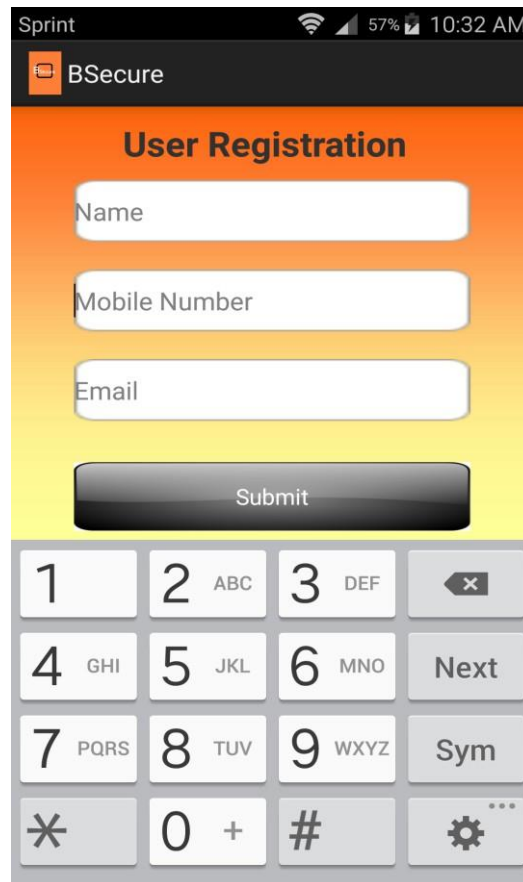
<EditText> Hint: Email

<EditText> Hint: Email Password

</LinearLayout>

<Button> Text: Submit

When user enters mobile no. then it only shows number keyboard on screen there is no any text.



UI COMPONENTS

<LinearLayout>

<TextView> Text: User Registration

<EditText> Hint: Name

<EditText> Hint: Number

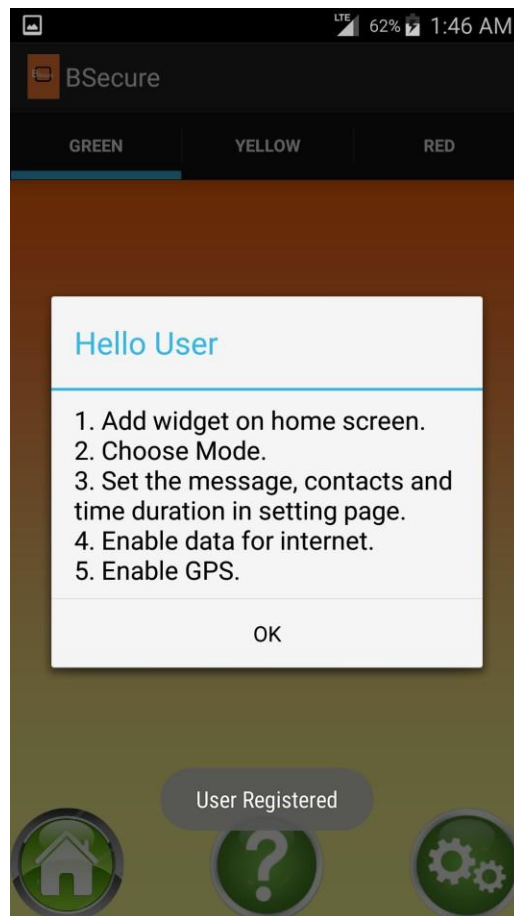
<EditText> Hint: Email

<EditText> Hint: Email Password

</LinearLayout>

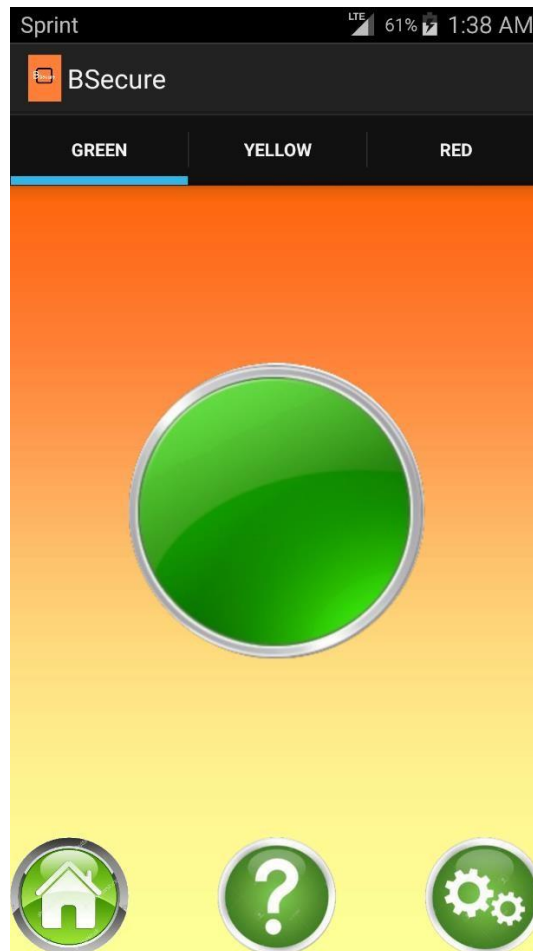
<Button> Text: Submit

Below figure shows one dialog box which describe the configuration help of application and also describe which functionality you need to turn on to get the accurate result



Screen after that shows three mode. User can select any mode and can go home screen of that mode. Home screen of three modes are shown in below figure. In below figures one screen for red mode in that one big red button is shown and using that button you will be able to send the message to your friends and family members which you have added in the contact list from your address book. Same for Green mode and Yellow mode.

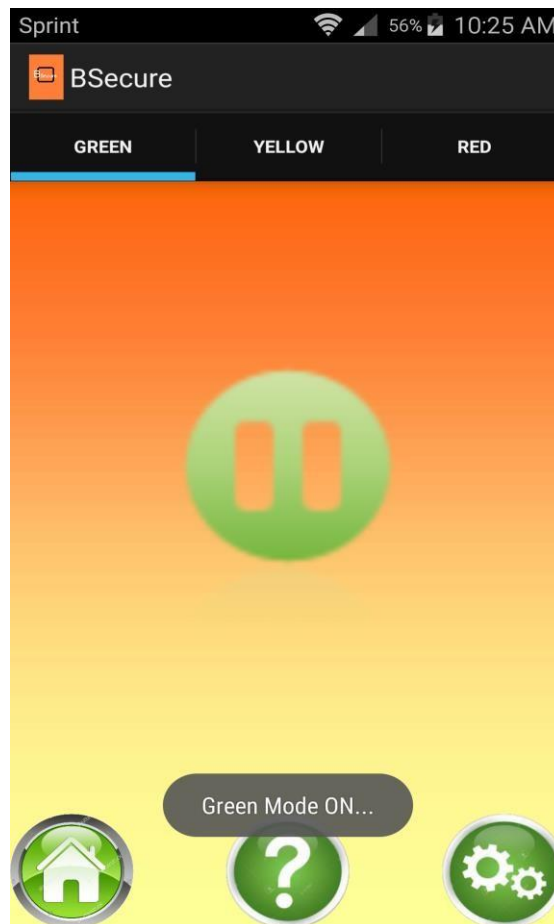
Green mode home screen:



UI Components

```
<LinearLayout>  
    <Button> Green  
    <Button> Home  
    <Button> About  
    <Button> Settings  
</LinearLayout>
```

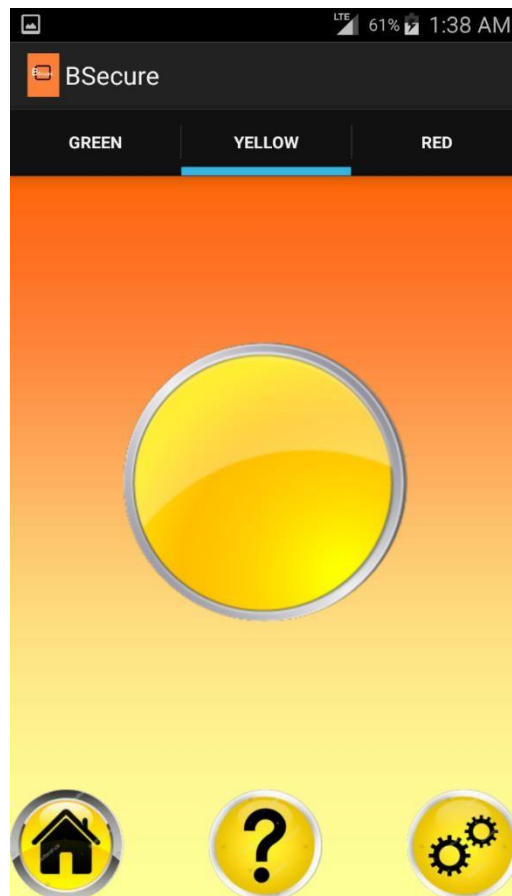
When Green mode is on, image that will be display shown in below figure.



UI Components

```
<LinearLayout>  
    <Button> Green  
    <Button> Home  
    <Button> About  
    <Button> Settings  
</LinearLayout>
```

Yellow mode home screen:



UI Components

```
<LinearLayout>  
    <Button> Yellow  
    <Button> Home  
    <Button> About  
    <Button> Settings  
</LinearLayout>
```

When Yellow mode is on, image that will be display shown in below figure.



UI Components

```
<LinearLayout>  
    <Button> Yellow  
    <Button> Home  
    <Button> About  
    <Button> Settings  
</LinearLayout>
```

Red mode home screen:



UI Components

```
<LinearLayout>  
    <Button> Red  
    <Button> Home  
    <Button> About  
    <Button> Settings  
</LinearLayout>
```

When Red mode is on, image that will be display shown in below figure.

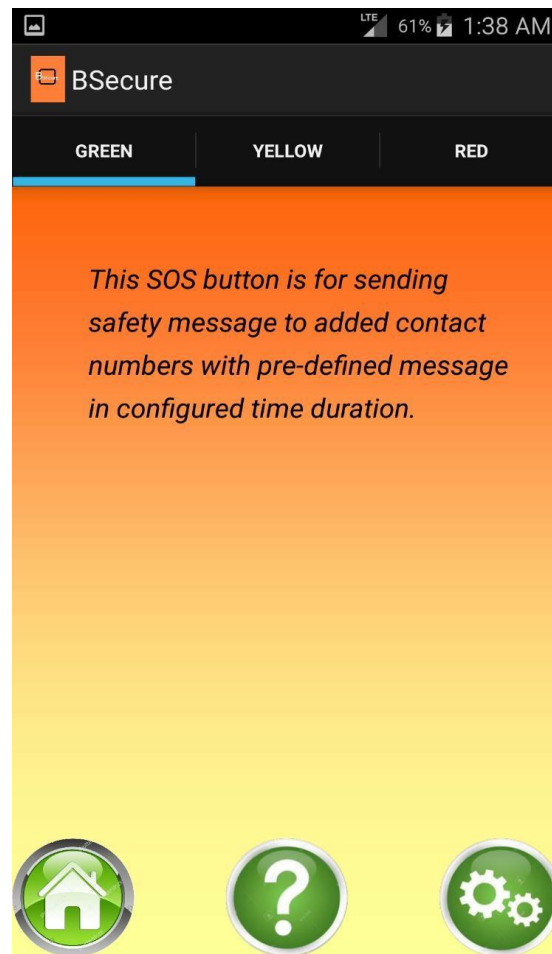


UI Components

```
<LinearLayout>  
    <Button> Red  
    <Button> Home  
    <Button> About  
    <Button> Settings  
</LinearLayout>
```


About page of different mode is shown in below figures. Which will open when user click on about button from particular mode home screen. Information about particular mode displays

Green mode about screen:



UI Components

<LinearLayout>

<TextView> Text: (Information about Green mode)

<Button> Home

<Button> About

<Button> Settings

</LinearLayout>

Yellow mode about screen:



UI Components

<LinearLayout>

<TextView> Text: (Information about Yellow mode)

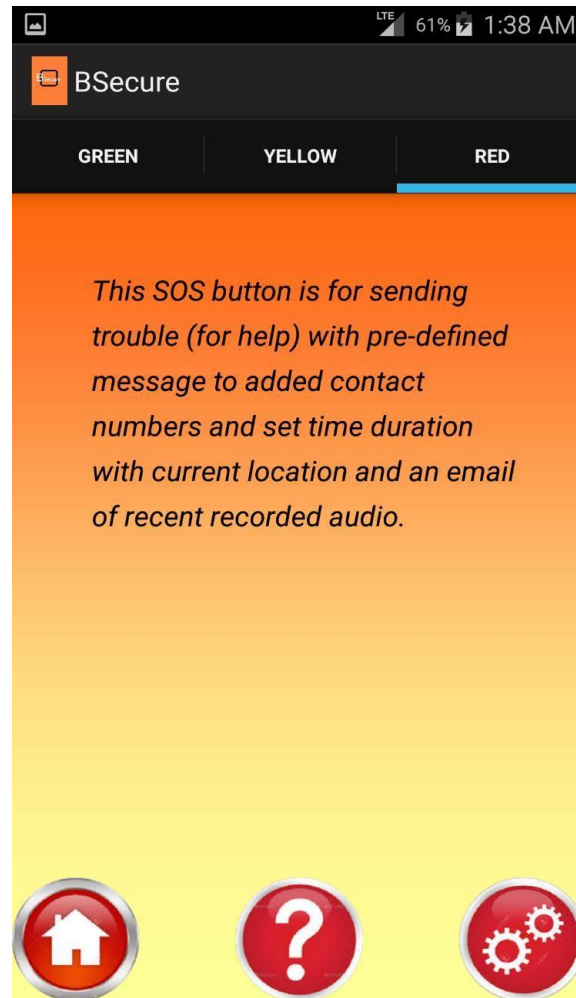
<Button> Home

<Button> About

<Button> Settings

</LinearLayout>

Red mode about screen:



UI Components

<LinearLayout>

<TextView> Text: (Information about Red mode)

<Button> Home

<Button> About

<Button> Settings

</LinearLayout>

Setting page of different mode is shown in below figures. Which will open when user click on setting button from particular mode home screen. In this page user can set the functionality like Message setting, Add contact and time setting and also set the shake alert. Note that Shake alert is only for red mode so for green mode that button is disabled and that is shown in green mode setting screen.

Red mode Setting screen



UI Components

<RelativeLayout>

<Button> Set Message

<Button> Shake Enable

<Button> Add Contact

<ListView> Contacts

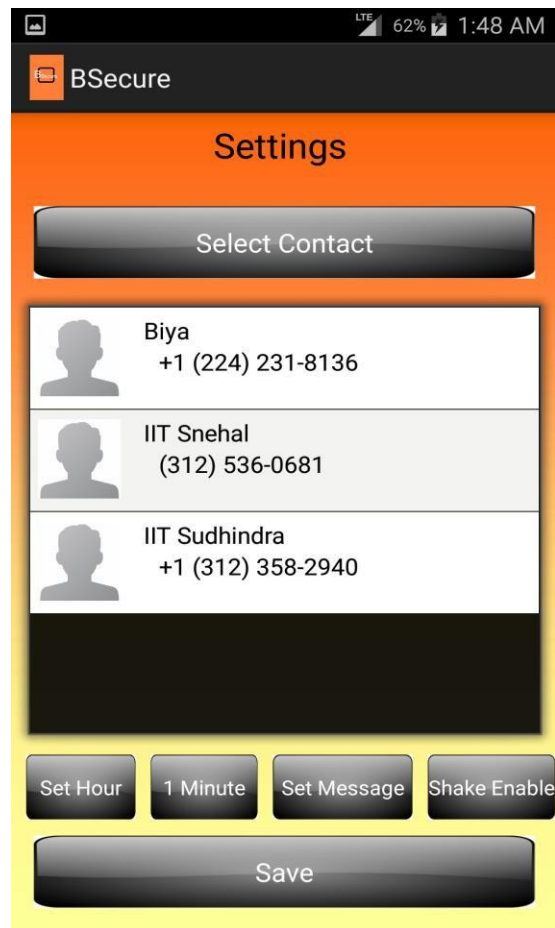
<Button> Set Hour

<Button> Set Minute

<Button> Save

</ RelativeLayout >

Green mode setting screen



UI Components

<RelativeLayout>

<Button> Set Message

<Button> Shake Enable

<Button> Add Contact

<ListView> Contacts

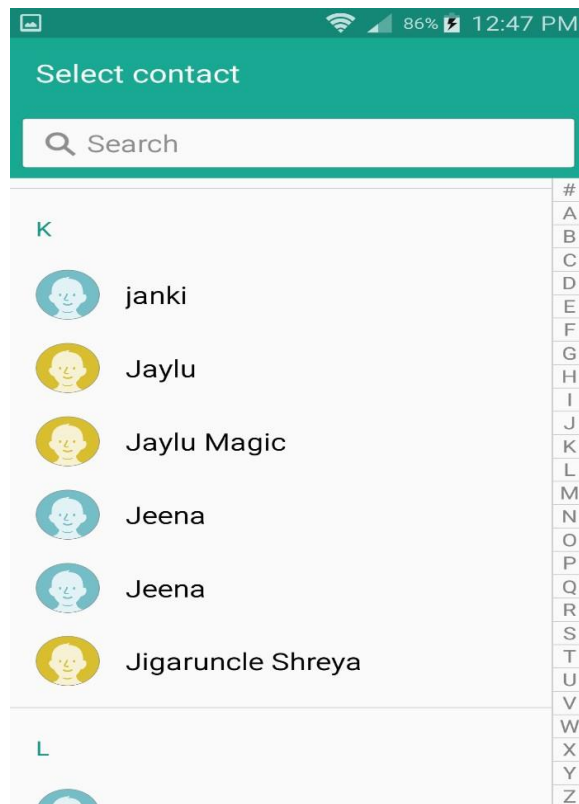
<Button> Set Hour

<Button> Set Minute

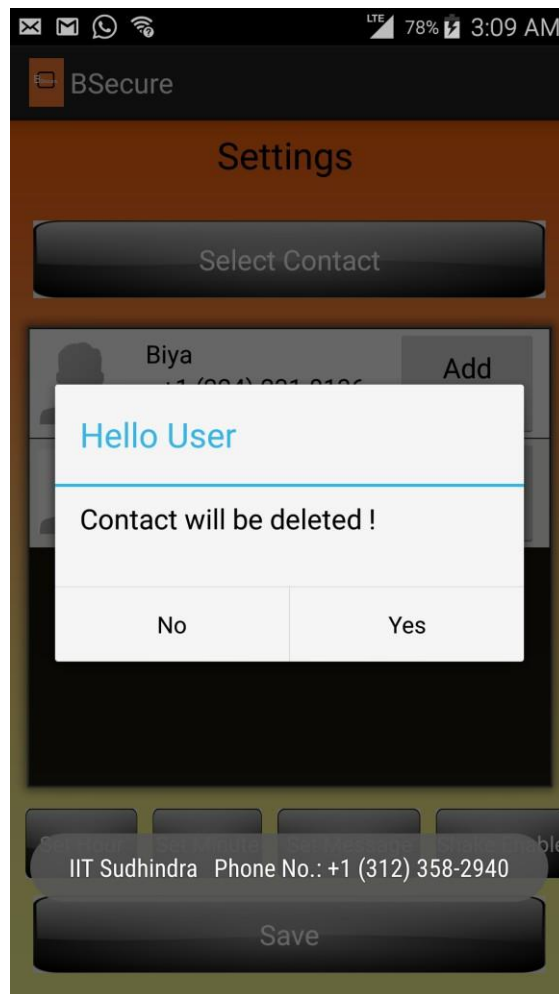
<Button> Save

</ RelativeLayout >

After press the add contact button contact directory of the phone will be opened. From contact list user can select the contact which they want to add for to send a message.

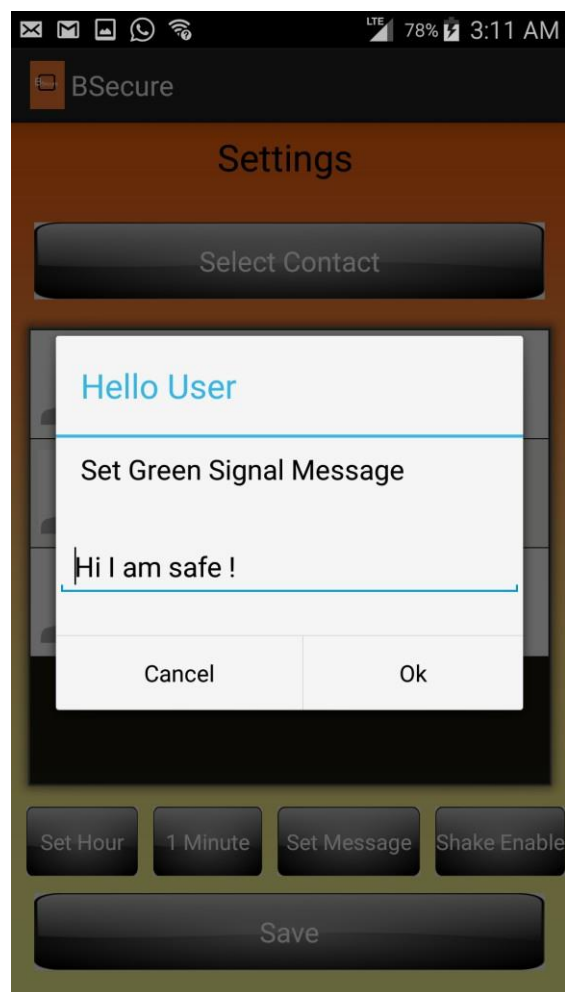


They can also delete contacts from their contact list by simply click on that contact.



When user click on set message button message setting dialog box will be opened with by default message this is shown in below figure, three different message for three different mode. In this dialog box user can write a message and also modify the previous message and finally press the ok button. And also user can set different messages for different modes as shown below.

Green mode default message:



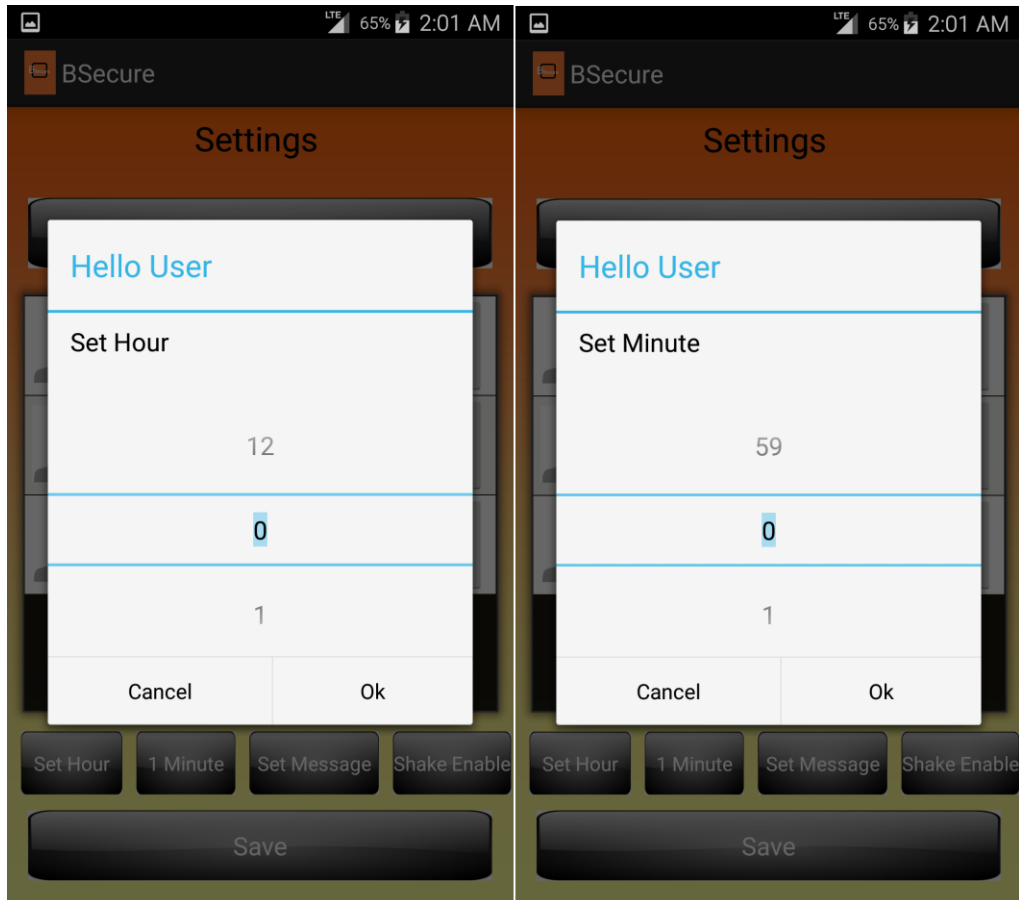
Yellow mode default message:



Red mode default message:



When user click on set hour button screen which will open shown in below figure left side and when user click on set minute button screen which will open shown in below figure right side. After send one message in which time interval user want to send the message again will set in this dialog box.



11. TESTCASES

User Registration Test Cases:

S No.	Test Case Name	Description	Input	Output	Expected Result	Test Case Result
1	User Registration	1. Enter the Name 2. Enter the Mobile Number 3. Enter the Email ID 4. Enter the Email's Password	1. Test 2. 3124560789 3. test@gmail.com 4. test1234	1. Display toast message "User Registered" 2. Should display alert dialogue with instructions	User should be able to register successfully	Pass
2	Empty First Name field validation	1. Empty first name field 2. Click on submit	1. No letter entered in first name 2. Submit button is clicked	1. Display toast message "Please Fill All Data"	Should not allow the user to register	Pass
3	Mobile Number field validation	1. Enter Letters in the mobile number field 2. Click on submit	1. absasasas 2. Submit button is clicked	1. Display toast message "Enter Valid Mobile Number"	Should not allow the user to enter letters in mobile number field	Pass
4	Mobile Number field restriction	1. Enter number with length greater than 10 digits 2. Click on submit	1. 312566333333 2. Submit button is clicked	1. Display toast message "Enter Valid Mobile Number"	Should not allow the user to enter mobile number greater than 10 digits	Pass
5	Email field validation	1. Enter invalid email address 2. Click on submit	1.test 2. Submit button is clicked	1. Display toast message "Enter Valid Email Address"	Should not allow the user to register if the email field does not match test@gmail.com	Pass

6.	Empty Email field validation	1. Empty Email field 2. Click on submit	1. No email entered in Email field 2. Submit button is clicked	1. Display toast message “Please Fill All Data”	Should not allow the user to register	Pass
7.	Empty Mobile Number field validation	1. Empty Mobile Number field 2. Click on submit	1. No email entered in Email field 2. Submit button is clicked	1. Display toast message “Please Fill All Data”	Should not allow the user to register	Pass

Green Mode Home Screen Test Cases:

S No.	Test Case Name	Description	Input	Output	Expected Result	Test Case Result
1	User Registration Complete	1. User is registered 2. Display Alert Dialog with instructions	1. User needs to register	1. Display 1. Add widget on home screen. 2. Choose Mode 3. Set the message contacts and time duration in setting page. 4. Enable data for internet 5. Enable GPS	1. Should display the alert dialog	Pass
1	Green Mode Message Start	1. After user registration, green mode home screen displays 2. In this page one big green button is shown	Clicks on big green button	1. Display toast message “Green mode on” 2. Button change to	Sending messages	Pass

		and using that button you will be able to send the message to your friends and family members which you have added in the contact list from your address book.		“big green on” button		
2	Green Mode Message Stop	1. User clicks on “big green on” button 2. Message sending process stop	Clicks on “big green on” button	1. Display toast message “Green mode off” 2. Button change to Big green button	Message sending stop	Pass
3	Green Mode About	1. Click on about button	1. User clicks on about	1. Display functionality for green button	Information about green mode is displayed	Pass
4	Green Mode Setting	1. Click on green mode settings	1. User clicks on setting button	1. Display green mode setting screen	All type of settings will be display like set message, add contacts, set hour, set minute.	Pass
5	Green Mode Home	When user clicks on home button which is at bottom left then green mode home screen will be open	1. Click on home button	Display green mode home screen	Home screen of green mode will be display	Pass

Green Mode Setting Screen Test Cases:

S No.	Test Case Name	Description	Input	Output	Expected Result	Test Case Result
1	Green Mode Set Message	1. When user clicks on set message button then in dialog by default message will be display like "Hi I am safe!" 2. User can edit this message.	Clicks on "set message" button	Dialog box will be display with default message	1. Dialog box will be display 2. when user set new message it will be save there	Pass
2	Green Mode Add Contact	1. After press the add contact button contacts directory of phone will be opened 2. From contact list user can select the contact which they want to add for sending a message 3. Contacts list will be display	Clicks on "Add Contact" button	contacts directory of phone will be opened	After select the contact which they want to add for sending a message, contacts list will be display	Pass
3	Green mode Delete Contact	1. If user want to delete added contact then simply click on that contact 2. One dialog box will be open for alert like "Contact will be deleted"	Clicks on contact which you want to delete	Dialog box for alert will be open	1. Dialog box for alert will be open 2. When click on "yes" in dialog box then that contact will be delete.	Pass
4	Green mode Set Hour	1. When user clicks on Set Hour button then	Clicks on Set Hour button	Number picker will be open	1. Number picker will be open	Pass

		number picker will be open			2. when user set new hour it will be save there	
5	Green mode Set Minute	1. When user clicks on Set Minute button then number picker will be open	Clicks on Set Minute button	Number picker will be open	1. Number picker will be open 2. when user set new minute it will be save there	Pass
6	Green mode “Shake Enable” button disable	“Shake Enable” button should be disable here because Shake functionality is only for Red mode.	Not able to click on “Shake Enable” button	Not able to click on “Shake Enable” button	1. Not able to click on “Shake Enable” button	Pass

Yellow Mode Home Screen Test Cases:

S No.	Test Case Name	Description	Input	Output	Expected Result	Test Case Result
1	Yellow Mode Message Start	1. When user clicks on yellow button which is at upper center then yellow mode home screen displays 2. In this page one big yellow button is shown and using that button you will be able to send the message to your friends and family members which you have added in the	Clicks on big yellow button	1. Display toast message “Yellow mode on” 2. Button change to “big yellow on” button	Sending messages with location	Pass

		contact list from your address book.				
2	Yellow Mode Message Stop	1. User clicks on “big yellow on” button 2. Message sending process stop	Clicks on “big yellow on” button	1. Display toast message “Yellow mode off” 2. Button change to Big yellow button	Message sending stop	Pass
3	Yellow Mode About	When user clicks on about button which is at bottom center then yellow mode about screen will be open	Clicks on about button	Display yellow mode about screen	Information about yellow mode displays	Pass
4	Yellow Mode Setting	When user clicks on setting button which is at bottom right then yellow mode setting screen will be open	Clicks on setting button	Display yellow mode setting screen	All type of settings will be display like set message, add contacts, set hour, set minute.	Pass
5	Yellow Mode Home	When user clicks on home button which is at bottom left then yellow mode home screen will be open	Clicks on home button	Display yellow mode home screen	Home screen of yellow mode will be display	Pass

Yellow Mode Setting screen Test Cases:

S No.	Test Case Name	Description	Input	Output	Expected Result	Test Case Result
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1	Yellow Mode Set Message	1. When user clicks on set message button then in dialog by default message will be display like “Hi I am in critical situation!” 2. User can edit this message.	Clicks on “set message” button	Dialog box will be display with default message	1. Dialog box will be display 2. when user set new message it will be save there	Pass
2	Yellow Mode Add Contact	1. After press the add contact button contacts directory of phone will be opened 2. From contact list user can select the contact which they want to add for sending a message 3. Contacts list will be display	Clicks on “Add Contact” button	contacts directory of phone will be opened	After select the contact which they want to add for sending a message, contacts list will be display	Pass
3	Yellow mode Delete Contact	1. If user want to delete added contact then simply click on that contact 2. One dialog box will be open for alert like “Contact will be deleted”	Clicks on contact which you want to delete	Dialog box for alert will be open	1. Dialog box for alert will be open 2. When click on “yes” in dialog box then that contact will be delete.	Pass
4	Yellow mode Set Hour	1. When user clicks on Set Hour button then number picker will be open	Clicks on Set Hour button	Number picker will be open	1. Number picker will be open 2. when user set new hour it will be save there	Pass

5	Yellow mode Set Minute	1. When user clicks on Set Minute button then number picker will be open	Clicks on Set Minute button	Number picker will be open	1. Number picker will be open 2. when user set new minute it will be save there	Pass
6	Yellow mode “Shake Enable” button disable	“Shake Enable” button should be disable here because Shake functionality is only for Red mode.	Not able to click on “Shake Enable” button	Not able to click on “Shake Enable” button	1. Not able to click on “Shake Enable” button	Pass

Red Mode Home Screen Test Cases:

S No.	Test Case Name	Description	Input	Output	Expected Result	Test Case Result
1	Red Mode Message Start	1. When user clicks on red button which is at upper right then red mode home screen displays 2. In this page one big red button is shown and using that button you will be able to send the message to your friends and family members which you have added in the contact list from your address book.	Clicks on big red button	1. Display toast message “Red mode on” 2. Button change to “big red on” button	1. Sending messages with location and Audio recording will be start in background. 1. Audio recording stores in bsecure folder which is created when user installed application.	Pass

2	Red Mode Message Stop	1. User clicks on “big red on” button 2. Message sending process stop	Clicks on “big red on” button	1. Display toast message “Red mode off” 2. Button change to Big red button	Message sending stop	Pass
3	Red Mode About	When user clicks on about button which is at bottom center then red mode about screen will be open	Clicks on about button	Display red mode about screen	Information about red mode displays	Pass
4	Red Mode Setting	When user clicks on setting button which is at bottom right then red mode setting screen will be open	Clicks on setting button	Display red mode setting screen	All type of settings will be display like set message, add contacts, set hour, set minute.	Pass
5	Red Mode Home	When user clicks on home button which is at bottom left then red mode home screen will be open	Clicks on home button	Display red mode home screen	Home screen of red mode will be display	Pass

Red Mode Setting Screen Test Cases:

S No.	Test Case Name	Description	Input	Output	Expected Result	Test Case Result
1	Red Mode Set Message	1. When user clicks on set message button then in dialog by default	Clicks on “set message” button	Dialog box will be display with default message	1. Dialog box will be display 2. when user set new message it	Pass

		<p>message will be display like “Hi I am in trouble, please help me!”</p> <p>2. User can edit this message.</p>			will be save there	
2	Red Mode Add Contact	<p>1. After press the add contact button contacts directory of phone will be opened</p> <p>2. From contact list user can select the contact which they want to add for sending a message</p> <p>3. Contacts list will be display</p>	Clicks on “Add Contact” button	contacts directory of phone will be opened	After select the contact which they want to add for sending a message, contacts list will be display	Pass
3	Red mode Delete Contact	<p>1. If user want to delete added contact then simply click on that contact</p> <p>2. One dialog box will be open for alert like “Contact will be deleted”</p>	Clicks on contact which you want to delete	Dialog box for alert will be open	<p>1. Dialog box for alert will be open</p> <p>2. When click on “yes” in dialog box then that contact will be delete.</p>	Pass

4	Red mode Set Hour	1. When user clicks on Set Hour button then number picker will be open	Clicks on Set Hour button	Number picker will be open	1. Number picker will be open 2. when user set new hour it will be save there	Pass
5	Red mode Set Minute	1. When user clicks on Set Minute button then number picker will be open	Clicks on Set Minute button	Number picker will be open	1. Number picker will be open 2. when user set new minute it will be save there	Pass
6	Red mode “Shake Enable”	1. “Shake Enable” button should be enable here because Shake functionality is for Red mode.	Clicks on “Shake Enable” button	“Shake Enable” button will be change to “Shake Disable”	1. “Shake Enable” button will be change to “Shake Disable” 2. When user shake mobile then red mode will be start.	Pass
7	Red Mode Audio Recorder functionality	1.In Red mode Settings screen, add contact. 2.Red mode settings screen Add Email Dialog. 3.Dialog Window Screen. 4.Start Red mode.	1.Select contact Test. 2.Click on Add Email Id. 3.In the dialog window enter email id test@gmail.com 4.Red mode should be started.	1,Contact should be added. 2.Email Dialog Window should open. 3.Email Id should be captured. 4.Audio should start recording in background.	Contact is added to list view. 2.It should allow user to add email id of the contact. 3.Contatct’s email ID should be stored. 4.Users audio will be captured.	Pass Pass Pass

		5.Audio recorder file name in email.	5.Open test@gmail.com Email and check audio file name.	5.Audio file name should be having name prefix AUD_2016_13695.3gp should be available as attachment.	5.Audio file should be having distinct name.	Pass
		6.Email Validations.	6.Add contact test 1 & do not enter email and click on save.	6.It should show a toast message "Email ID is missing for atleast one contact"	6.Should not allow user to save the contact details without adding email.	Pass

12. SCHEDULE/WORK

No.	Name of Task	Role
PHASE1 CHECKPOINT1		
1	Selected topic from 10 ideas	Group decision
2	Listed the features	Group decision
3	Decided the schedule	Group decision
PHASE1 CHECKPOINT2		
4	Define all the screens	Snehal & Sudhindra
5	Transition Flow and For each screen define UI components	Vickyben & Sandeep
PHASE2 CHECKPOINT1		
6	Identified the various modules	Group decision
7	Finalized android API's and technologies to use	Group decision
8	Identified various API's specifically required to implement the Module like MediaRecorder and required for audio recording, Shared preference, DBSQLite technology required to do read write operation of various widget settings, SensorManager android API to send an SMS alert when	Group decision

	the phone is shaken and the Shake mode is enabled	
9	basic understanding of SMS API usage and developed sample application using SmsManager to send a SMS which will be later used for sending SMS alerts to concerned member of user.	Group decision
10	Hosted the source code in GitHub for daily and continuous integration	Group decision
11	Location Tracking Module	Sandeep
12	Application Mode Setting Module	Vickyben
13	Alert Module	Sudhindra
14	Registration/ Widget Configuration Module	Snehal
PHASE2 CHECKPOINT 2-3		
Location Tracking Module		
15	Get the longitude and latitude of user's location using network provider and GPS provider.	Sandeep
16	Able to Stop the application using GPS	Sandeep
17	Enable GPS/ WiFi	Sandeep
18	Shared Preference to store GPS data	Sandeep
19	To get all geo locations like- address, city, country.	Sandeep
Application Mode Setting Module		
20	Add custom text message settings for all the three modes	Vickyben
21	Used Shared preference to store by default message display also user can edit that message.	Vickyben
22	Add Contacts settings for all three modes	Vickyben
23	Used startActivityForResult and onActivityResult for getting contacts details	Vickyben
24	Created bSecure database and in that three table for Green mode, Yellow mode and Red mode to store corresponding values like contacts	Vickyben
25	Added few constraints on contacts selection like in green mode user can add maximum	Vickyben

	three contacts, in yellow mode user can add maximum five contacts and in red mode user can add maximum seven contacts.	
26	If user forgot to add timer for send message that in which time interval user want to send the message again then application Default time for send Message is set	Vickyben
27	Implemented the functionality where user can also delete contacts	Vickyben
28	Add timer setting for all three modes	Vickyben
29	Shake alert for red mode	Vickyben
Alert Module		
30	When user adds a widget in home screen and clicks on Red icon in Widget audio starts recording.	Sudhindra
31	Reading the contacts from Database for all the three modes and utilizing the contact data for SMS	Sudhindra
32	Using the shared preference reading the application settings to integrate with the Contact Data to compile an alarm to send SMS	Sudhindra
33	AlarmManager class utilization and implementation to schedule message	Sudhindra
34	SmsManager class utilization and implementation to send SMS.	Sudhindra
35	Integration of Sms and Scheduler functionality to send SMS periodically	Sudhindra
Registration & Widget Configuration Module		
36	User able to take name, mobile number, email id as input	Snehal
37	User able to store the name, mobile number, email id to Shared Preference Database	Snehal
38	Toast message displayed when one of three inputs are empty	Snehal
39	Toast message when email id is not valid	Snehal

40	Widget customization on home screen	Snehal
PHASE3		
41	Contributed to skeleton of documentation. Created UML and Activity Diagram	Sandeep
42	Contributed to coding and debugging, Contributed to test cases in documentation Sending Audio recording to Email was a challenge taken by him, Testing the document thoroughly.	Sudhindra
43	UI look and feel. Contributed to test cases in documentation and integrating the updated screen shots and transition flow in documentation.	Vickyben
44	Contributed to coding and debugging, Contributed to test cases in documentation. Displaying contact image, contact number, name was a challenge taken by her, Editing the document including updating the UML and Activity Diagram	Snehal