# Development phase I requirements report

for

RING ME – A Mobile management application

Version 1.0

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University of North Texas 10/29/2018

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### 1. SR1: Mode changer requirements

Mode changer features allows user to control ringer modes of the mobile phone. In Android we have three basic ringer modes namely Ringer, Vibration and Silent. This feature aims to develop the functionalities to read the SMS command and alter the ringer modes. This also includes the development of application home screen and alter the ringer volume. Feature hierarchy of Mode changer features is shown in figure 3.2.

### 1.1. FR1.1: Feature to read the SMS command and change phone mode to ringer mode

Ringer mode is any mobile phone alerts the user with sound by which user will come to know about his incoming phone calls or notifications. This feature is to change the mode of his phone to Ringer as a response to the command received in the SMS. User will be able to select this function 'Ring' and configure a SMS command under it. This command will be stored in our database. This command will be used by the application to identify and respond accordingly by change the mode of the phone to ringer.

# 1.2. FR1.2: Feature to read the SMS command and change phone mode to vibration mode

Vibration mode does not alert the user with any sound but vibrates the phone for all incoming phone calls and notifications. This feature is to change the mode of his phone to Vibrate as a response to the command received in the SMS. User will be able to select this function 'Vibration' and configure a SMS command against it. This command will be stored in our database. This command will be used by the application to identify and respond accordingly by change the mode of the phone to vibration.

### 1.3. FR1.3: Feature to read the SMS command and change phone mode to silent mode

Silent mode in a mobile phone is like DND (Do Not Disturb) mode in which user is not alerted by any sound or vibration for incoming phone calls and notifications. This feature is to change the mode of his phone to Silent as a response to the command received in the SMS. User will be able to select this function 'Silent' and configure a SMS command against it. This command will be stored in our database. This command will be used by the application to identify and respond accordingly by change the mode of the phone to silent.

### 1.4. FR1.5: Application Home screen

This is Home GUI screen will allow user to create new SMS commands for Ring me application. User will be displayed with all the featured supported by Ring me. User will be displayed with all the commands configured by him in this Home screen page.

### 1.5 Updated requirements

We have moved the 'FR1.4: Feature to read the SMS command and alter the ringer volume (Section 3.1.4)' to development phase II and swapped 'FR2.4: Feature to edit SMS commands (Section 3.2.4)' as edit requirement should be integrated for all the requirements so that user can add and edit SMS commands. Hence this requirement is needed to be prioritized. This is the reason why we have swapped FR1.4 (Section 3.1.4) with FR2.4 (Section 3.2.4)

The development phases have been re-planned accordingly as below.

### **Development Phase I: (Deadline – 10/24/2018)**

In this phase we concentrate on the main functionality which we decided to prioritize. Mode changer features are like base features which needs to be supported from the first. Hence, we have decided to complete Mode changer features (Section 3.1) first. This phase would be intended to develop Mode changer features in full stack. The functional requirements which are implemented here are:

- FR1.1: Feature to read the SMS command and change phone mode to ringer mode (Section 3.1.1)
- FR1.2: Feature to read the SMS command and change phone mode to vibrate mode (Section 3.1.2)
- FR1.3: Feature to read the SMS command and change phone mode to silent mode (Section 3.1.3)
- FR2.4: Feature to edit SMS commands (Section 3.2.4)
- FR1.5: Application Home screen (Section 3.1.5)

### **Development Phase II: (Deadline – 11/07/2018)**

In this phase we target to finish user authentication features as security is primary concern of any application. So, we shall complete User authentication features (Section 3.2) like User register, Login and edit personal data. The functional requirements in this phase are:

- FR2.1: User registration (Section 3.2.1)
- FR2.2: User login (Section 3.2.2)
- FR2.3: Feature to edit user details (Section 3.2.3)
- FR1.4: Feature to read the SMS command and alter the ringer volume (Section 3.1.4) After this phase, user must register/login to use Ring me application.

### 2. UML Design

### 2.1 Class Diagram

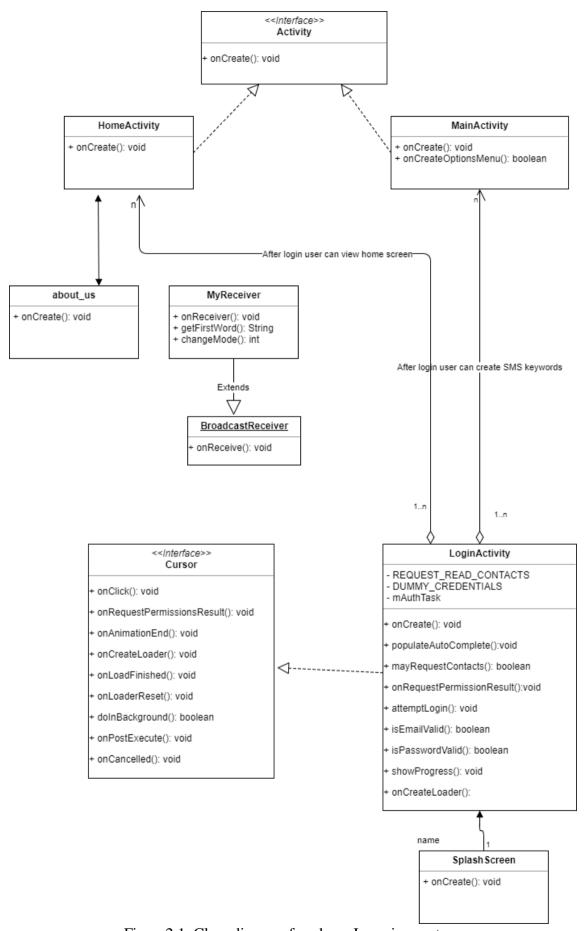
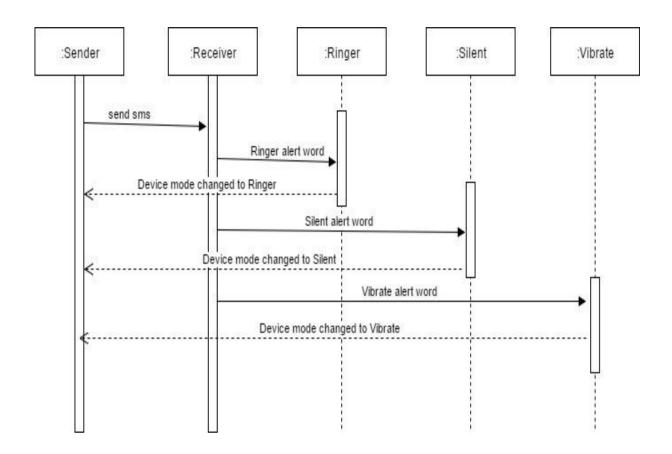
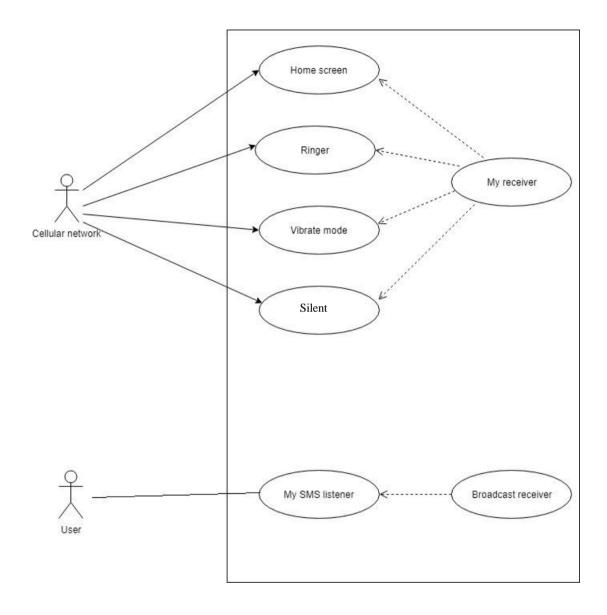


Figure 2.1. Class diagram for phase-I requirements

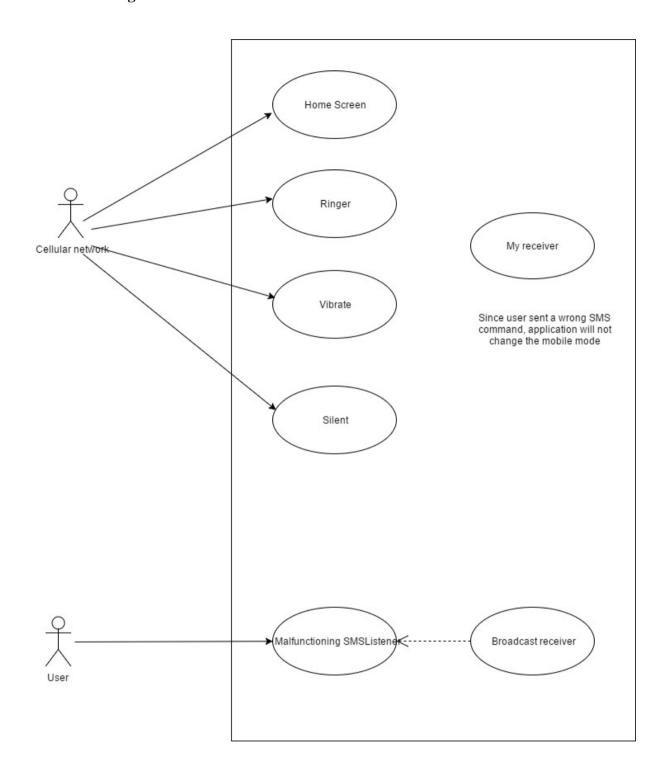
### 2.2 Sequence Diagram



### 2.3 Use Case Diagram



# **5.1.** Use Case Diagram Error case



### 3. Test Cases

https://github.com/Sai11262246/ModeChanger/tree/master/Test%20cases

# 3.1 Functional Test cases for FR1.1\_Feature to read the SMS command and change phone mode to ringer mode

Test CaseID	Test Title	Test Description	Test Priority	Pre-condition	Test Steps	Expected Result	Actual Result	Name of test person	Round1	Round2
				1. Phone should be power on						
				2. Phone should be able to recevie SMS						
		Application should be able to read the SMS and process		3. Another phone should be able to sent		Phone should receive the SMS stating	Phone received an SMS with 'test' as			
FR1.1_TC1	SMS sending and reading test	acordingly	High	SMS	1. Send a SMS 'test' from another phone.	'test' sent from another mobile	text	Vikas	Pass	
				1. Phone should be power on						
				2. Phone should be able to recevie SMS						
				3. Another phone should be able to sent	1. Create an SMS command/keyword	Phone should receive the SMS stating				
				SMS	named 'ring' for RINGER mode	'ring' sent from another mobile and				
		Application should change mode of phone to RINGER		4. User should be allow permissions	2. Send a SMS with context as 'ring' from	phone mode should be changed to	Phone received an SMS with 'ring' as			
FR1.1_TC2	Changing mode to RINGER	mode after reading SMS configured with user	High	requested by RING ME	another phone.	RINGER	text and mode is changed to RINGER	Vikas	Fail	Pass
				1. Phone should be power on						
				2. Phone should be able to recevie SMS						
				3. Another phone should be able to sent		Phone should receive the SMS stating	Phone received an SMS with 'hello' as			
				SMS		'ring' sent from another mobile and	text and application should not do any			
		Sent an wrong SMS like 'hello' and check if phone is		4. User should be allow permissions	1. Send a wrong SMS with context as	phone mode should be changed to	operation, i.e., should not change mode			
FR1.1 TC3	Changing mode to RINGER	changing it mode to RINGER	Medium	requested by RING ME	'hello' from another phone.	RINGER	to RINGER	Vikas	Pass	

# 3.2 Functional Test Cases for FR1.2\_Feature to read the SMS command and change phone mode to vibrate mode

Test CaseID	Test Title	Test Description	Test Priority	Pre-condition	Test Steps	Expected Result	Actual Result	Name of test person	Round1	Round2
				1. Phone should be power on						
				2. Phone should be able to recevie SMS						
		Application should be able to read the SMS and process		3. Another phone should be able to sent	1. Send a SMS 'test' from another	Phone should receive the SMS stating	Phone received an SMS with 'test' as			
FR1.3_TC1	SMS sending and reading test	acordingly	High	SMS	phone.	'test' sent from another mobile	text	Revanth	Pass	
				1. Phone should be power on						
				2. Phone should be able to recevie SMS						
				3. Another phone should be able to sent	1. Create an SMS command/keyword	Phone should receive the SMS stating				
				SMS	named 'vibrate' for VIBRATE mode	'vibrate' sent from another mobile and				
		Application should change mode of phone to VIBRATE		4. User should be allow permissions	2. Send a SMS with context as 'silent'	phone mode should be changed to	Phone received an SMS with 'vibrate' as			
FR1.3_TC2	Changing mode to VIBRATE	mode after reading SMS configured with user	High	requested by RING ME	from another phone.	VIBRATE	text and mode is changed to VIBRATE	Revanth	Pass	
				1. Phone should be power on						
				2. Phone should be able to recevie SMS						
				3. Another phone should be able to sent		Phone should receive the SMS stating	Phone received an SMS with 'okay' as			
				SMS		'vibrate' sent from another mobile and	text and application should not do any			
		Sent an wrong SMS like 'okay' and check if phone is		4. User should be allow permissions	1. Send a wrong SMS with context as	phone mode should be changed to	operation, i.e., should not change mode			
FR1.3_TC3	Changing mode to VIBRATE	changing it mode to VIBRATE	Medium	requested by RING ME	'okay' from another phone.	VIBRATE	to VIBRATE	Revanth	Fail	Pass

# 3.3 Functional Test cases for FR1.3\_Feature to read the SMS command and change phone mode to silent mode

Test CaseID	Test Title	Test Description	Test Priority	Pre-condition	Test Steps	Expected Result	Actual Result	Name of test person	Round1	Round2
				1. Phone should be power on						
				2. Phone should be able to recevie SMS						
		Application should be able to read the SMS and process		3. Another phone should be able to sent	1. Send a SMS 'test' from another	Phone should receive the SMS stating	Phone received an SMS with 'test' as			
FR1.3_TC1	SMS sending and reading test	acordingly	High	SMS	phone.	'test' sent from another mobile	text	Revanth	Pass	
				1. Phone should be power on						
				2. Phone should be able to recevie SMS						
				3. Another phone should be able to sent	1. Create an SMS command/keyword	Phone should receive the SMS stating				
				SMS	named 'vibrate' for VIBRATE mode	'vibrate' sent from another mobile and				
		Application should change mode of phone to VIBRATE		4. User should be allow permissions	2. Send a SMS with context as 'silent'	phone mode should be changed to	Phone received an SMS with 'vibrate' as			
FR1.3_TC2	Changing mode to VIBRATE	mode after reading SMS configured with user	High	requested by RING ME	from another phone.	VIBRATE	text and mode is changed to VIBRATE	Revanth	Pass	
				1. Phone should be power on						
				2. Phone should be able to recevie SMS						
				3. Another phone should be able to sent		Phone should receive the SMS stating	Phone received an SMS with 'okay' as			
				SMS		'vibrate' sent from another mobile and	text and application should not do any			
		Sent an wrong SMS like 'okay' and check if phone is		4. User should be allow permissions	1. Send a wrong SMS with context as	phone mode should be changed to	operation, i.e., should not change mode			
FR1.3_TC3	Changing mode to VIBRATE	changing it mode to VIBRATE	Medium	requested by RING ME	'okay' from another phone.	VIBRATE	to VIBRATE	Revanth	Fail	Pass

### 3.4 Functional Test Cases for FR2.4\_Feature to edit SMS commands

Test CaseID	Test Title	Test Description	Test Priority	Pre-condition	Test Steps	Expected Result	Actual Result	Name of test person	Round1
					1. User should click mode changer	Application should be able to save the			
					button from home screen.	Ringer keyword edited by the user. This	RING ME saved the keyword with toast		
		After accessing Mode changer button in the GUI user		1. App should be running	2. User should select the text field under	keyowrd should be shown even after	message showing SAVED. The same		
		should be to edit the field and store new keyword under		2. User should be able to access home	Ringer mode from GUI to edit the	closing and reopening the app, until user	keyword is showed when reopend the		
FR2.4_TC1	Test of editing RINGER mode field	RINGER field	High	screen with mode changer features button	keyword.	changes it.	арр.	Sai teja	Pass
					1. User should click mode changer	Application should be able to save the			
					button from home screen.	Silent keyword edited by the user. This	RING ME saved the keyword with toast		
		After accessing Mode changer button in the GUI user		1. App should be running	2. User should select the text field under	keyowrd should be shown even after	message showing SAVED. The same		
		should be to edit the field and store new keyword under		2. User should be able to access home	silent mode from GUI to edit the	closing and reopening the app, until user	keyword is showed when reopend the		
FR2.4_TC2	Test of editing SILENT mode field	SILENT field	High	screen with mode changer features button	keyword.	changes it.	арр.	Sai teja	Pass
					1. User should click mode changer	Application should be able to save the			
					button from home screen.	Vibrate keyword edited by the user. This	RING ME saved the keyword with toast		
		After accessing Mode changer button in the GUI user		1. App should be running	2. User should select the text field under	keyowrd should be shown even after	message showing SAVED. The same		
		should be to edit the field and store new keyword under		2. User should be able to access home	vibrate mode from GUI to edit the	closing and reopening the app, until user	keyword is showed when reopend the		
FR2.4_TC3	Test of editing VIBRATE mode field	VIBRATE field	High	screen with mode changer features button	keyword.	changes it.	арр.	Sai teja	Pass
					1. User should click mode changer				
					button from home screen.				
					2. User should select the text field under				
		After editing keywords associated with each mode,		1. App should be running	vibrate mode from GUI to edit the		RING ME saved the keyword with toast		
	Edit keywords should be provided	application should save the keywords to memory only		2. User should be able to access home	keyword.	Application should save keywords when	message showing SAVED after user		
FR2.4_TC4	with SAVE button	after user clicks SAVE button	Medium	screen with mode changer features button	3. User should click save button	user click SAVE.	clicked SAVE.	Sai teja	Pass
					1. User should click mode changer				
					button from home screen.				
					2. User should select the text field under				
		After editing keywords associated with each mode,		1. App should be running	vibrate mode from GUI to edit the	Application should not save keywords			
	Edit keywords shouldnot be saved if	application should not save the keywords to memory only		2. User should be able to access home	keyword.	when user click BACK. App should show	RING ME showed old keyowrds created		
FR2.4 TC5	user hits BACK button	after user clicks BACK button	Medium	screen with mode changer features button	3. User should click back button	old keywords saved in memory	by the user.	Sai teja	Pass

### 3.5 Functional Test Cases for FR1.5\_Application Home screen

Test CaseID	Test Title	Test Description	Test Priority	Pre-condition	Test Steps	Expected Result	Actual Result	Name of test person	Round1	Round2
		Application should display 'Mode Changer Features' option		1. Phone should be power on		Should display splash screen and then go	Displaying Splash screen and goes to			
FR1.5_TC1	Display Menu	and 'About Us'	High	2. App must be running	1. Open the app.	to Home page	Home screen	Sai Krishna	Fail	Pass
				1. Phone should be power on	1. Click on 'About Us' on Home screen	Shoul display description about 'About				
FR1.5_TC2	Display 'About Us'	Application should display content 'About Us'	High	2. App must be running	menu	Us'	Displaying description about 'About Us'	Sai Krishna	Pass	
				1. Phone should be power on	1. Click on various features from Ring,	Should display saved keywords from the	Displaying keywords for corresponding			
FR1.5_TC3	Accessing the 'Mode Changer' menu	Accessing features like Ring, Vibrate, Silent	High	2. App must be running	Vibrate, Silent.	DB.	option.	Sai Krishna	Fail	Pass
				1. Phone should be power on		Should go back from Menu page to				
FR1.5_TC4	Navigate to Home screen	Navigate from Mode Changer menu to Home Screen	High	2. App must be running	1.Click on the 'Back' button.	Home Screen page	Navigating from Menu to Home screen	Sai Krishna		

#### 3.6 Unit test cases for classes

• Home\_ActivityTest: Junit code for Home\_Activity.java class

```
package com.vivartha.modechanger;
import android.content.Intent;
import android.os.Bundle;
import android.support.design.widget.FloatingActionButton;
import android.support.design.widget.Snackbar;
import android.support.v7.app.AppCompatActivity;
import android.support.v7.widget.Toolbar;
import android.view.View;
import android.widget.Button;
import org.junit.Test;
public class Home ActivityTest{
   @Test
   public void testOnCreate()
      Home Activity act = new Home Activity();
      Bundle savedInstanceState = new Bundle();
      act.onCreate(savedInstanceState);
}
```

### • LoginActivityTest: Junit code for LoginActivity.java class

```
package com.vivartha.modechanger;
import android.animation.Animator;
import android.animation.AnimatorListenerAdapter;
import android.annotation.TargetApi;
import android.content.Intent;
import android.content.pm.PackageManager;
import android.database.sqlite.SQLiteCursor;
import android.database.sqlite.SQLiteCursorDriver;
import android.support.annotation.NonNull;
import android.support.design.widget.Snackbar;
import android.support.v7.app.AppCompatActivity;
import android.app.LoaderManager.LoaderCallbacks;
import android.content.CursorLoader;
import android.content.Loader;
import android.database.Cursor;
import android.net.Uri;
import android.os.AsyncTask;
import android.os.Build;
import android.os.Bundle;
import android.provider.ContactsContract;
import android.text.TextUtils;
import android.view.KeyEvent;
import android.view.View;
import android.view.View.OnClickListener;
import android.view.inputmethod.EditorInfo;
import android.widget.ArrayAdapter;
import android.widget.AutoCompleteTextView;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import java.util.ArrayList;
import java.util.List;
import org.junit.Test;
import static android.Manifest.permission.READ CONTACTS;
/**
 * A login screen that offers login via email/password.
public class LoginActivityTest {
   @Test
   public void testOnCreate()
      LoginActivity act = new LoginActivity();
      Bundle savedInstanceState = new Bundle();
```

```
act.onCreate(savedInstanceState);
   }
   @Test
  public void testOnRequestPermissionsResult()
      int requestCode = 1;
      String[] permissions = {"1","0","1"};
      int[] grantResults = new int[]{1,2,3};
      //grantResults = \{1,2,3\};
     LoginActivity act = new LoginActivity();
      act.onRequestPermissionsResult(requestCode,
permissions, grantResults);
   }
   @Test
  public void testAttemptLogin()
     LoginActivity act = new LoginActivity();
      //act.attemptLogin();
   }
   @Test
  public void testOnCreateLoader()
     LoginActivity act = new LoginActivity();
     Bundle bundle = new Bundle();
     act.onCreateLoader(1,bundle);
   }
   @Test
   public void testOnLoadFinished()
      Loader<Cursor> cursorLoader=new Loader<Cursor>(null);
        Cursor cursor = new SQLiteCursor(null, null, null);
        // // public SQLiteCursor (SQLiteCursorDriver
driver, String editTable, SQLiteQuery query)
      LoginActivity act = new LoginActivity();
      act.onLoadFinished(cursorLoader, cursor);
   }
}
```

• MainActivityTest: Junit code for MainActivity.java class package com.vivartha.modechanger;

```
import android.app.Activity;
import android.content.Intent;
```

```
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.ContextMenu;
import android.view.Menu;
import android.view.SubMenu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import org.junit.Test;
public class MainActivityTest {
   @Test
   public void testOnCreate()
      MainActivity act = new MainActivity();
      Bundle savedInstanceState = new Bundle();
      act.onCreate(savedInstanceState);
   }
   @Test
   public void testOnCreateOptionsMenu()
      MainActivity act = new MainActivity();
      //Menu menu = PowerMockito.mock(Menu.class);
      Menu menu = null;
      boolean result = act.onCreateOptionsMenu(menu);
   }
}
```

### • MyReceiverTest: Junit code for MyReceiver.java class

```
package com.vivartha.modechanger;

import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.ContextWrapper;
import android.content.Intent;
import android.content.SharedPreferences;
import android.media.AudioManager;
import android.os.Bundle;
import android.telephony.SmsMessage;
import android.widget.Toast;
import org.junit.Test;
```

```
public class MyReceiverTest{
    @Test
    public void testOnReceive()
    {
        MyReceiver obj = new MyReceiver();
        Context context = new ContextWrapper(null);
        Intent intent = new Intent();
        obj.onReceive(context, intent);
    }
}
```

• Splash\_ScreenTest: Junit code for Splash\_Screen.java class

```
package com.vivartha.modechanger;
import android.content.Intent;
import android.os.Bundle;
import android.app.Activity;
import org.junit.Test;
public class Splash ScreenTest {
   @Test
   public void testOnCreate()
      Splash Screen obj = new Splash Screen();
      Bundle savedInstanceState = new Bundle();
      obj.onCreate(savedInstanceState);
   }
}
--- nn
package com.vivartha.modechanger;
import android.os.Bundle;
import android.app.Activity;
import org.junit.Test;
import static org.junit.Assert.*;
import org.junit.runner.RunWith;
public class about usTest{
   @Test
```

```
public void testOnCreate()
{
    about_us obj = new about_us();
    Bundle savedInstanceState = new Bundle();
    obj.onCreate(savedInstanceState);
}
```

### 4. Contribution

### 4.1 Requirements

Contribution	Developer name
FR1.1_Ringer mode requirement	Vikas Chirumamilla
FR1.5_Application home screen	Sai Krishna Kolli
FR1.3_Silent mode requirement	Revanth Malreddy
FR1.2_Vibrate mode requirement	Siri Gogineni
FR2.4_Edit SMS commands requirement	Sai Teja Reddy Malle

### 4.2 Components/Classes

Name	Component/Classes
Vikas Chirumamilla	Home_activity.java, activity_homexml, Home_ActivityTest.java
Sai Krishna Kolli	Android base framework setup, SpalshScreen.java, activity_splash_screen.xml, ActivityLogin.java, LoginActivityTest.java
Revanth Malreddy	MainActivity.java, activity_main.xml, MainActivityTest.java
Siri Gogineni	MyReceiver.java, activity_login.xml, MyReceiverTest.java
Sai Teja Malle	about_us.java, activity_about_us.xml, about_usTest.java

#### 5. User Manual

• This is how the splash screen of our mobile management Android application is going to look like. As soon as we click on this application, the following screen open first.



- For, security reasons, it is important that every user should create an account in this application. Since, we have done only the Development Phase- 1, we have not yet authenticated the sign-in and register options. You can see this in the screenshot below. We have provided optional option for this phase.
- As soon as we select the sign in option, our application takes you to another screen and starts working.

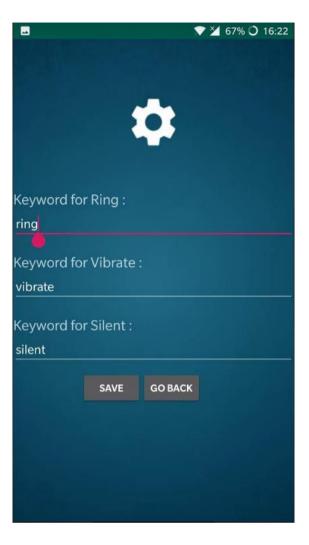


• It takes you to the home screen, where we have provided you with two options: Mode changer

How it works



- When you select Mode changer option, it takes you to a screen where you have the option to edit the keyword which you want to use for ring, vibrate and silent. In this Development Phase- 1, we have only developed the code for these options. In the later development phases, we will have more requirements filled in.
- You can edit the keyword which you would like to use and click on save.
- There is another option go back. When you select it, it takes you back to the home page.



• In the home page, you have an option which says how it works. When you select this option, a page appears which will give detailed information about how this android application works. This helps the new users on how to use it.

### 6. Installation instructions

- 1. Enabling APK Installations
  - Open your Android's Settings. Use two fingers to swipe down from the top of the screen, then tap the "Settings" Image titled Android7settings.png gear icon in the top-right corner of the resulting drop-down menu.
  - Scroll down and tap Apps and notifications. Doing so opens the Apps and Notifications menu.
  - If you have an Android running Nougat (Android 7.0), skip to the last step in this part instead.
  - Tap Install unknown apps. It should be in the middle of the menu. This option may instead say Install other apps. On some Androids, you may first have to tap Special access.
- 2. Installing RING ME from .apk file
  - Download .apk file into your Android mobile which meets the system

requirements.

- Open your Android's file manager app, select your default storage location, tap the Downloads folder, and tap the APK file that you downloaded. You can then tap SETTINGS when prompted and enable installations from unknown sources for your file manager app.
- Tap INSTALL. This option is in the bottom-right corner of the screen. Doing so will prompt the APK file to begin installing; once it completes, you'll see an OPEN option appear in the bottom-right corner of the screen. This will open RING ME application.

### 3. Testing the application

- Please find the user manual under section 5 of this document which helps to find out the more details of the application features.
- You can make use of section 1 to get knowledge on the requirements scope.
- Functional test cases have been updated to GitHub. https://github.com/Sai11262246/ModeChanger/tree/master/Test%20cases



Test cases.zip

- Unit testing has been uploaded to https://github.com/Sai11262246/ModeChanger/tree/master/SourceCode/app/sr c/test/java/com/vivartha/modechanger
- Run each of the Junit cases in Android studio after importing the code to Android studio from GitHub.
   https://github.com/Sai11262246/ModeChanger/tree/master/SourceCode

#### 7. Peer review session feedback

We have received 2 feedback points from our peer team.

1. Table of contents are not up to 3<sup>rd</sup> level:

We have first included table of contents for  $3^{rd}$  level headings. Later in peer review received feedback to include up to  $3^{rd}$  level which will be easier for people to navigate.

2. Requirements not clear:

FR3.3.3, FR3.3.5 are not clearly mentioned. Also asked to check the feasibility of developing these requirements at Android system level.