

A Project Report On

“My Helper”

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CERTIFICATE

This is to certify that the report entitled “**My Helper**” is a bonafied work carried out by **Raj Banker(16IT003) and Pranav Bhatt(16IT009)** under the guidance and supervision of **Prof. Pinal Shah** for the subject **Software Group Project-II (IT345)** of **5th** Semester of Bachelor of Technology in **Information Technology** at Faculty of Technology & Engineering – CHARUSAT, Gujarat.

To the best of my knowledge and belief, this work embodies the work of candidate herself, has duly been completed, and fulfills the requirement of the ordinance relating to the B.Tech. Degree of the University and is up to the standard in respect of content, presentation and language for being referred to the examiner.

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ABSTRACT

Imagine you are stuck somewhere at unknown place without your phone and you badly need to contact any of your friends or relatives but you don't remember any of their contact numbers, then what will you do? “**My Helper**” App is perfectly designed for such situations. You just need to send a SMS to your phone and then our App does the work for you and brings you the contact info of whosoever's you requested.

CHAPTER- 1: INTRODUCTION

1.1: Description

“My Helper” is a very simple lightweight offline Android Application. Initially you just need to set a Numeric Passcode and your work is done. After that whenever you need anyone’s contact info then you just need to send a SMS from any phone with the passcode you set and the Name of the contact you requested for. The app works totally in background. The app will automatically detect Incoming message validate the passcode and search for the contact name and on success returns back to the user with SMS as an output

1.2: Purpose:

The main purpose behind developing this project is to help our friends and relatives who often forget their phones and don’t remember any phone numbers.

1.3: Scope:

This App let’s you get access of your contacts anywhere anytime with just a SMS click away. All you need to do is remember the passcode you set in the app and the name of the contact in your phone who’s Info you are requesting.

This app won’t help you if you forget your passcode or you don’t enter the exact contact name you set on your phone.

1.4: Objective:

- ❖ Help people get contact number of anyone, anywhere even if they don’t have their phone handy.

CHAPTER- 2: SYSTEM REQUIREMENTS

2.1: User Characteristics:

User must know how to operate basic android smart phone and must remember the passcode they set initially and the exact contact name of the person whose number they are requesting for .

2.2: Tools and Languages Used (For Development):

Android Programming

Java for logic purpose

Android version 3.0 and higher version

Standard Development Kit(SDK)

Permissions:

RECEIVE_SMS

READ_SMS

SEND_SMS

READ_CONTACTS

Minimum Requirements:

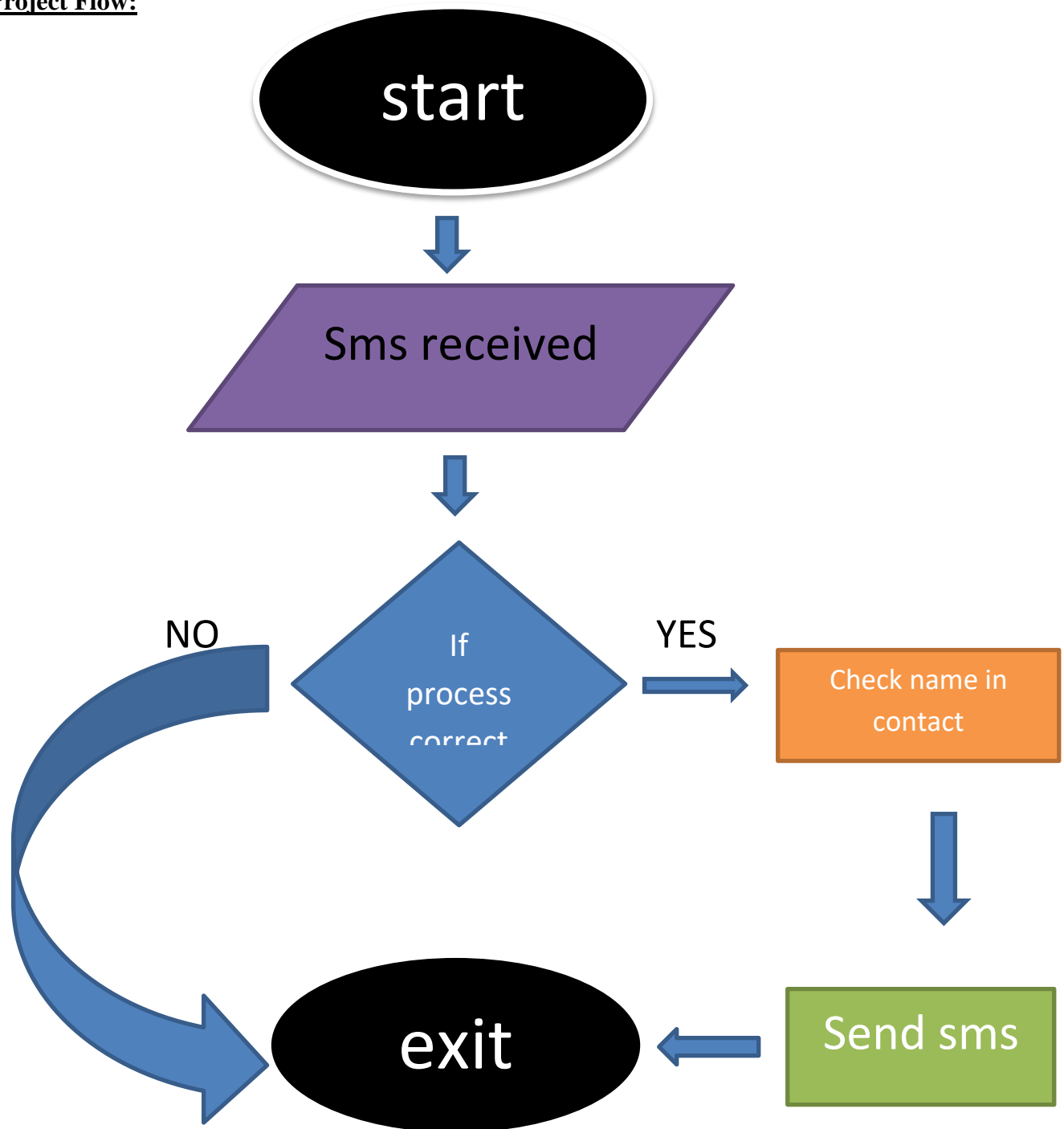
Any Android Phone with version 3.0 or higher will work

2.3: Assumptions and Dependencies:

We have assumed that user has the basic knowledge of operating an Android phone.

CHAPTER-3: SYSTEM DESIGN

3.1: Project Flow:



CHAPTER- 4: IMPLEMENTATION PLANNING

4.1: Implementation Environment:

Android single user.

4.2: Coding Standards

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.rajbanker.new3">

    <uses-permission android:name="android.permission.RECEIVE_SMS" />
    <uses-permission android:name="android.permission.READ_SMS" />
    <uses-permission android:name="android.permission.SEND_SMS" />
    <uses-permission android:name="android.permission.READ_CONTACTS" />

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="My Helper"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/AppTheme">

        <activity android:name=".SmsActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```

4.3: Snapshots of project

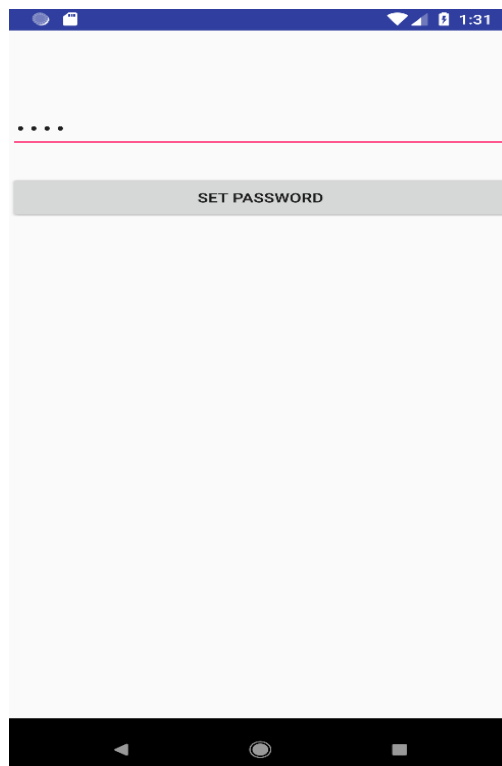


Fig 4.3.1: Here User has to Set the Passcode

- Here the user has to set a numeric passcode which will be further used to validate if the user is authorised or not.

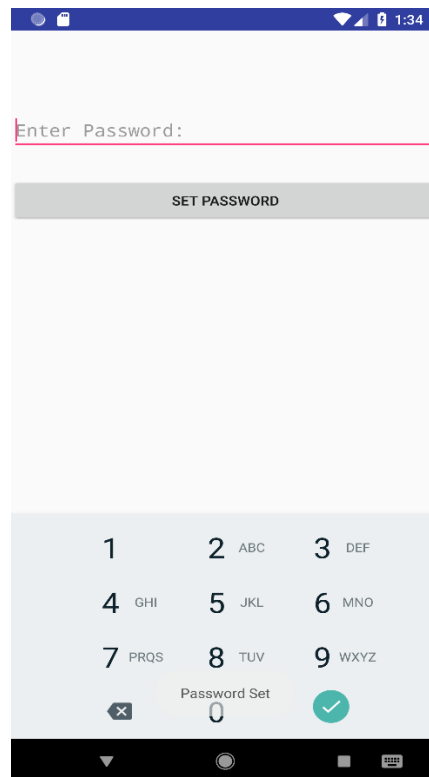


Fig 4.3.2: Set Password

- Here the passcode set is 333. First the 333,Pranav message is received then it will check if the passcode is correct or not and if it is correct then It will check for the name Pranav in the Contacts and if found then the app will send an SMS which contains the name and the Number.

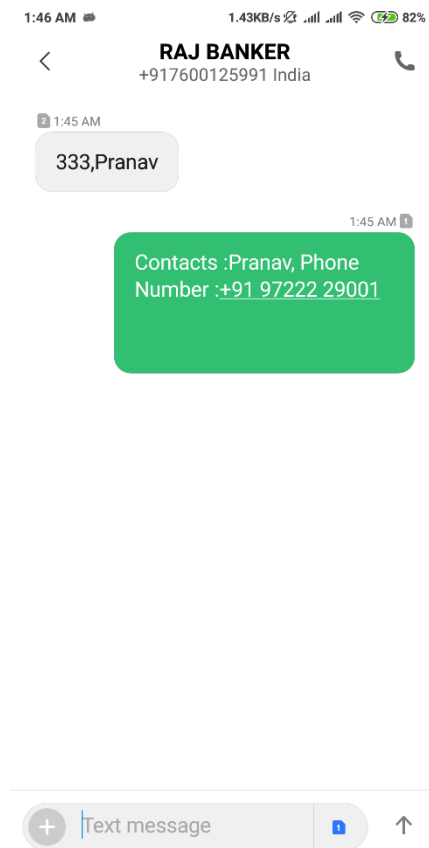


Fig 4.3.3: msg receive

CHAPTER-5: LIMITATIONS AND FUTURE ENHANCEMENT

5.1: Limitations

- ❖ This app still lacks in Security which is an essential thing for an app.
- ❖ Little bit code optimization can be done to increase the response time
- ❖ More Work can be done on UI to make it more attractive

5.2: Future Enhancements

- ❖ Get Location through SMS
- ❖ Change Sound Profile through SMS
- ❖ Lock or Turn Off your Phone through SMS
- ❖ Increase Security

CHAPTER 6: CONCLUSION

Working on this project has helped us to understand various concepts regarding java and we have been quite familiar with Android Studio.

It was essential for project to understand the requirements in terms of functional requirements, non-functional requirements, platforms, technicality, timelines, information availability. The project was completed within the given time period.

No major problems were encountered and no major risk was involved during development of the project. All the system error has been removed successfully. The program runs successfully.

CHAPTER 7 : References

- <https://developer.android.com/docs/>
- <https://www.tutorialspoint.com/android>
- <https://www.youtube.com/>