**MINI PROJECT**

**TITLE : RAPPEL**

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**A MINI PROJECT REPORT ON**

**RAPPEL**

SUBMITTED TO SAVITRIBAI PHULE PUNE UNIVERSITY

IN PARTIAL FULFILLMENT OF THE DEGREE

**COMPUTER ENGINEERING**

**(THIRD YEAR)**

**BY**

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**UNDER THE GUIDANCE OF**

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**DEPARTMENT OF COMPUTER ENGINEERING**

**(THIRD YEAR)**

Shalaka Foundation’s

**KEYSTONE SCHOOL OF ENGINEERING**

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**CERTIFICATE**

This is to certify that the mini project report entitled

“**RAPPEL**”

Submitted by

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is a bonafide work carried out by them under the supervision of **Prof.N.W.Dangare** and it is submitted towards the partial fulfillment of the requirement of Savitribai Phule Pune University for the award of Third Year Computer Engineering.

**Project Guide External Examiner**

###### Head Dept. of Computer Engineering

**Place:Hadapsar**

**Date :22/10/2018**

**Certificate by Guide**

This is to certify that **Group Id**-**1** have completed the mini project work under my guidance and supervision and that, I have verified the work for its originality in documentation, problem statement, implementation and results presented in the mini project work. Any reproduction of other necessary work is with the prior permission and has given due ownership and included in the references.

**Place: Hadapsar**

**Date :** 22/10/18

Signature of Guide

(Name of guide)

**ACKNOWLEDGEMENT**

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Our thanks and appreciations also go to my colleague in developing the project and people who have willingly helped us out with their abilities.

**ABSTRACT**

Every day, we have many chores to do, doing housework, business work, meetings, birthday parties, phone calls, billings, TV programs and so on. it is not easy to memorize all and handle all well, in order not to forget or miss any important things, we can ask help from some remainder application and it does be workable and helpful

A Reminder System is important for busy people because we do not have to remember all our works. And writing them down somewhere is not a very good idea because then we have to keep track of that piece of paper.

The Reminder System lets you “set and forget‟ and then get reminded when the time comes. And so it becomes a perfect tool for business or personal follow up.

The purpose of this paper is to learn the most important attributes needed to remind upcoming Birthdays, Anniversary,Events, Important Meetings, etc.

RAPPEL is an application which helps the user about the registered event reminders . It is an application which gives the remainder of saved event before the event via email system. Due to the email system user get an idea about event before event actually occur anywhere at any time on user’s mobile.

As user come to know about events early user can plan the event according to his/her convenience.

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**CHAPTER 1 : INTRODUCTION**

Now a days, mobile phones are used everywhere and every time in our daily life ranging from communication, entertainment to health and wellness applications. Today we know very well that the use and the demand of Mobile Application Development are increasing and it makes inspiration to create user friendly and effective variety of application.

The various social networking sites provide a feature to remind the birthday / anniversary of the loved one, friends and relatives upcoming events and greet them by posting messages on the wall. But what happens when users net is not working on that day or net is too slow in speed or there are some people who are unaware if internet and latest social networking sites.?

And when he suddenly remembers that time has passed there is no option for this problem. Once the time is passed, the person has to do work or wish their dearest person after the time is pass away.

And may be the person may be suffering due to this problem. So application relieves us from all these problems and provides a very user-friendly environment.

Our proposal was to make yet another reminder application which would list all upcoming events like Birthday,Anniversary, Best Wishes, Festivals, Important Meetings, Tasks of the day etc on a Android Smartphone, which would give Greeting notiﬁcations of friends and relatives on registered date and time. The application will show lists of all contacts with birthdays, anniversary, meetings etc so user does not have to search anymore.

In this project the user only needs to add the some information about the birthday person or events and enter the date of birthday , and when the birthday occurs the reminder will be given. This reminder concept is more simple to execute but also very needful in our day to day life . Every person in this busy world needs this reminder .

This reminder will remind user about the event before the event occur via email system. So that user can plan the event according to his or her convenience.

Rappel has an inbuilt support for sending emails when event occur. This application ensures that you will never miss an important date , event, anniversary or birthday of loved once.

The best part about this application is it is very easy to handle and and user can set reminder at any time anywhere with less steps and with less complexity.

**CHAPTER 2 : PACKAGES**

For this project we have been using Python3 , it provides various packages . Python was developed by Guido van Rossum in the late eighties and early nineties at the National Research Institute for Mathematics and Computer Science in the Netherlands. Python is a high-level, interpreted, interactive and object-oriented scripting language. Python is designed to be highly readable. It uses English keywords frequently whereas the other languages use punctuations. It has fewer syntactical constructions than other languages.

The packages used in this project are as follows :-

1. easygui

2. csv

3. datetime

4. smtplib

1. **EASYGUI** :-

EasyGui provides an easy-to-use interface for simple GUI interaction  
with a user. It does not require the programmer to know anything about  
tkinter, frames, widgets, callbacks or lambda. All GUI interactions are  
invoked by simple function calls that return results.

## Default arguments for EasyGui functions :-

Most arguments to EasyGui functions have defaults. Almost all of the boxes display a message and a title. The title defaults to the empty string, and the message usually has a simple default.

Eg msgbox("Danger, Will Robinson!")

### Different button boxes of easygui:

### msgbox

msgbox displays a message and offers an OK button.

Eg def msgbox(msg="(Your message goeshere)",title="",ok\_button="OK"):

### ynbox

ynbox offers a choice of Yes and No, and returns either True of False.

### buttonbox

To specify your own set of buttons in a buttonbox, use the buttonbox() function.The buttonbox can be used to display a set of buttons of your choice. When the user clicks on a button, buttonbox() returns the text of the choice. If the user cancels or closes the buttonbox, the default choice (the first choice) is returned.buttonbox displays a message, a title, and a set of buttons. Returns the text of the button that the user selected.

### enterbox

enterbox is a simple way of getting a string from the user.

EasyGui provides a few basic functions for allowing a user to navigate through the file system and choose a directory or a file.

### diropenbox

diropenbox returns the name of a directory.

### fileopenbox

fileopenbox returns the name of a file.

1. **CSV :-**

(Comma Separated Values) format is the most common import and export format for spreadsheets and databases.These differences can make it annoying to process CSV files from multiple sources. Still, while the delimiters and quoting characters vary, the overall format is similar enough that it is possible to write a single module which can efficiently manipulate such data, hiding the details of reading and writing the data from the programmer.The csv module implements classes to read and write tabular data in CSV format. Programmers can also describe the CSV formats understood by other applications or define their own special-purpose CSV formats.

The [csv](https://docs.python.org/3/library/csv.html#module-csv) module defines the following functions:

1. csv.**reader**(*csvfile*, *dialect='excel'*, *\*\*fmtparams*)

2. csv.**writer**(csvfile, dialect='excel', \*\*fmtparams) etc

1. **DATETIME :-**

The [**datetime**](https://docs.python.org/2/library/datetime.html#module-datetime) module supplies classes for manipulating dates and times in both simple and complex ways. While date and time arithmetic is supported, the focus of the implementation is on efficient attribute extraction for output formatting and manipulation. For related functionality, see also the [**time**](https://docs.python.org/2/library/time.html#module-time) and [**calendar**](https://docs.python.org/2/library/calendar.html#module-calendar) modules.

Available types :

class datetime.**date**

An idealized naive date, assuming the current Gregorian calendar always was, and always will be, in effect. Attributes: [**year**](https://docs.python.org/2/library/datetime.html#datetime.date.year), [**month**](https://docs.python.org/2/library/datetime.html#datetime.date.month), and [**day**](https://docs.python.org/2/library/datetime.html#datetime.date.day).

class datetime.**time**

An idealized time, independent of any particular day, assuming that every day has exactly 24\*60\*60 seconds (there is no notion of “leap seconds” here). Attributes: [**hour**](https://docs.python.org/2/library/datetime.html#datetime.time.hour), [**minute**](https://docs.python.org/2/library/datetime.html#datetime.time.minute), [**second**](https://docs.python.org/2/library/datetime.html#datetime.time.second), [**microsecond**](https://docs.python.org/2/library/datetime.html#datetime.time.microsecond), and [**tzinfo**](https://docs.python.org/2/library/datetime.html#datetime.time.tzinfo).

class datetime.**timedelta**

A duration expressing the difference between two [**date**](https://docs.python.org/2/library/datetime.html#datetime.date), [**time**](https://docs.python.org/2/library/datetime.html#datetime.time), or [**datetime**](https://docs.python.org/2/library/datetime.html#datetime.datetime) instances to microsecond resolution. etc

1. **SMTPLIB :-**

Simple Mail Transfer Protocol (SMTP) is a protocol, which handles sending e-mail and routing e-mail between mail servers.Python provides **smtplib** module, which defines an SMTP client session object that can be used to send mail to any Internet machine with an SMTP or ESMTP listener daemon.Here is a simple syntax to create one SMTP object, which can later be used to send an e-mail –

import smtplib

smtpobj = smtplib.SMTP([host,[port,[local\_host]]])

Here is the detail of the parameters −

* **host** − This is the host running your SMTP server. You can specify IP address of the host or a domain name like tutorialspoint.com. This is optional argument.
* **port** − If you are providing *host* argument, then you need to specify a port, where SMTP server is listening. Usually this port would be 25.
* **local\_hostname** − If your SMTP server is running on your local machine, then you can specify just *localhost* as of this option.

An SMTP object has an instance method called **sendmail**, which is typically used to do the work of mailing a message. It takes three parameters −

* The *sender* − A string with the address of the sender.
* The *receivers* − A list of strings, one for each recipient.
* The *message* − A message as a string formatted as specified in the various RFCs.

**CHAPTER 3 : METHODOLOGY AND ALGORITHM**

We developed the application through several steps as shown below in Fig. 1. The steps comprises of all the design and development efforts that we investigated.

The given figure is the flow diagram of our project.

The following sections describe each step in detail :-

STOP

HOMEPAGE

Mail sent

Successfully added Anniversery

Successfully added Birthday

Enter

Birthday inputs

Enter

Anniversery inputs

Exit the program

If any birthday/

anniversery

then send them

mail

Exit

Check Reminder

Add Anniversery

Add Birthday

Go to HOMEPAGE

START

**CHAPTER 4 : IMPORTANT CODE**

Firstly we need to write code for inserting the information from the user.

name1 = input("\nEnter the name : ")

date1 = input("\nEnter the birth date (yyyy-mm-dd) : ")

mail1 = input("\nEnter their Mail Id : ")

f1 = open("birthday.txt",'a')

f1.write(name1)

f1.write(",")

f1.write(date1)

f1.write(",")

f1.write(mail1)

f1.write("\n")

f1.close()

In this project the main core part of this project is to get remainder.

Hence the following code can be used to give the reminder.

def remainder():

r\_menu()

if ch2 == 'Check remainder of birthday':

x = []

y = []

z = []

global mail1

with open('b1.txt') as csvfile:

check = 0

csvreader = csv.reader(csvfile,delimiter=',')

for line in csvreader:

x.append(line[0])

y.append(line[1])

z.append(line[2])

currentDT = datetime.date.today()

today = str(currentDT)

eg.msgbox('Today date is '+today)

year,month,day = today.split("-")

for i in range(len(y)):

y1,m1,d1 = y[i].split("-")

if m1 == month and d1 == day:

check = 1

eg.msgbox('Birthday today : '+x[i],'RAPPEL')

mail1 = z[i]

emailbirthday()

if check == 0:

eg.msgbox('No ones Birthday today','RAPPEL')

r\_menu()

Here in the function we have used the reader() of csv to read the data stored in the file.Then we have have used the datetime.date.today() function to get the current or today’s date we would use this to compare with the saved birthday dates.After that we have used the split() to get only the day and month.Same code as above will be referred for reminder of anniversary.

Now sending the email to respective birthday boy or girl also should be coded properly.Following is the code to send mail.

def emailbirthday():

eg.msgbox('Birthday wishes sent on mail - '+mail1)

TO = mail1

SUBJECT = 'Greetings for your special day.'

TEXT = 'Wish you many many Happy Returns of the day..!! HAPPY BIRTHDAY . May god bless you '

# Gmail Sign In

gmail\_sender = 'rappelreminder@gmail.com'

gmail\_passwd = '@rappel30'

server = smtplib.SMTP('smtp.gmail.com', 587)

server.ehlo()

server.starttls()

server.login(gmail\_sender, gmail\_passwd)

BODY = '\r\n'.join(['To: %s' % TO,

'From: %s' % gmail\_sender,

'Subject: %s' % SUBJECT,

'', TEXT])

try:

server.sendmail(gmail\_sender, [TO], BODY)

print ('email sent')

except:

print ('error sending mail')

server.quit()

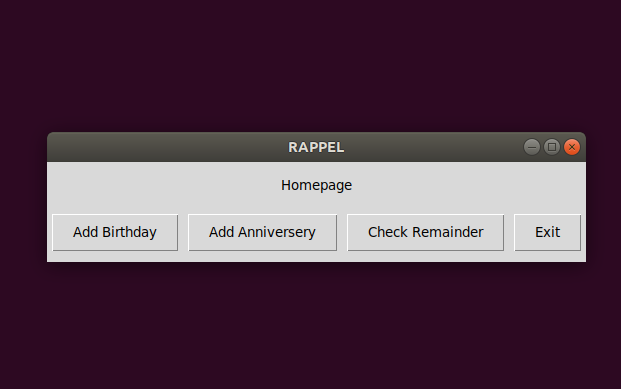
As above will be the code for sending mail to after checking reminder of anniversary.

**CHAPTER 5 : RESULT AND ANALYSIS**

The main motive of this project was to get reminder at the given time so that we don’t miss loved ones specials day.

Following are the screenshots of output :-

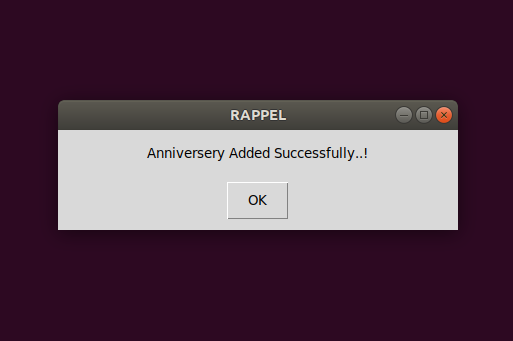
The first menu that appears.



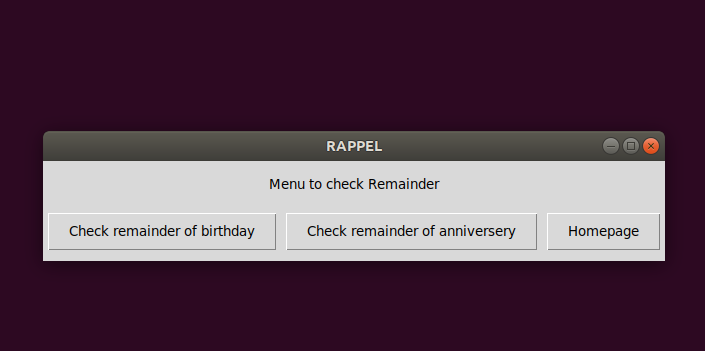
After adding the information of birthday.



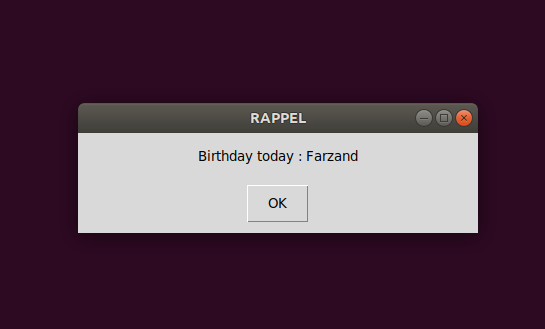
After adding the information of anniversary.



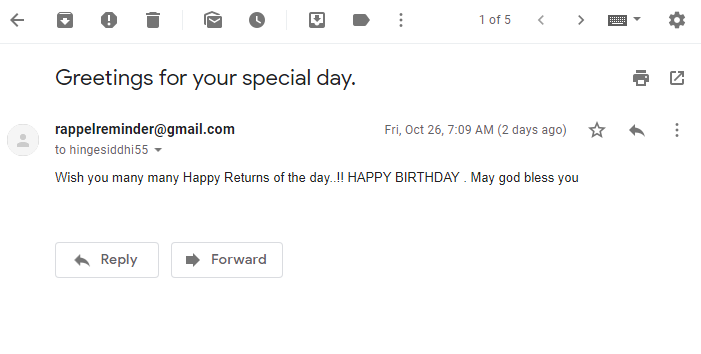
Menu to check the reminder of birthday and anniversary.



After checking for any birthday reminder.



The immediate window appears to send the greetings mail to the birthday boy / girl.



**CHAPTER 6 : CONCLUSION AND FUTURE RESEARCH**

Conclusion :-

Our Proposed application is mainly for users and those people who are unaware of using Internet and social networking site like Face book. Rappel Reminder is a application which helps the user about the registered event reminders on specified date and also sends wishes (Email) automatically to the registered Mail-Id on specified date.

The system is supposed to implement when the user set the reminder, he/she can also remind that event to whom he/she want. Means the email will send to both side users as well as for whom he has set that reminder called receiver. Again, the message will be send automatically, at the time which has been set by user; this is the big advantage of this application.

Future Research :-

In future we can add many more specifications and modifications as per the changing requirements and bug fixes.

We can also let users to add time so that the greetings mail would be sent at the specified user’s time. We can also add a feature for the reminder daily medicines if any for a particular person.

Everyone are quite busy in there career / professional life , sometimes they forget to takecare of themselves too , hence we may add this feature also.

Further we may also develop application for this project . And also add the notification library of python to send the birthday , anniversary , event etc notification without opening the application.

**References :-**

**-** <https://www.tutorialspoint.com/python3/>

We used this link to study all about the python3 and its libraries.

- <https://pypi.org/project/pip/>

This link is used to install the pip . pip is a package manager for python.

- <http://easygui.readthedocs.io/en/latest/tutorial.html>

Above link is used to download the easygui and also learn about different syntax

Of the buttonboxes etc.

- <https://www.guru99.com/date-time-and-datetime-classes-in-python.html>

To learn about datetime library and how to use its functions.

- <https://www.tutorialspoint.com/python/python_sending_email.html>

We could study in detail about the smtplib to send the email,its different function