

# BIRTHDAY SERVICE ASSESSMENT

## **Functional Requirements:-**

- 1) To Maintain, Update Database.
- 2) To send greetings text message over SMS,-Whats-app,Email.
- 3) To send Image,videos greeting over SMS,Whats-app, Email.

## **Non- Functional Requirements:-**

- 1) Deploy this as cloud service.
- 2) Support Mobility
- 3) Support web interface
- 4) Send Festival Message

## **List of Software, python packages used in this Project.**

- Python 3.9
- MySQL
- Pywhatkit: It is used for sending message over whatsapp.
- Smtplib: It is library that is used for sending email.
- Imghdr:- Determine the type of an image.

## **FEATURES I HAVE IMPLEMENTED:**

- I have added all function requirements.
- It supports Mobility.
- It also send festival message

# BIRTHDAY SERVICE ASSESSMENT

```
from datetime import date
import Medium as M
import mysql.connector
import os
```

```
#It's version 2
#Because i've created database on cloud.
```

```
today = date.today() # To get Today's Date.
```

```
db=mysql.connector.connect(host="sql6.freesqldatabase.com",user="sql6582218",p
asswd="KNAZUQReNL",database="sql6582218")
cursor=db.cursor()
print('-----Birthday Service and Festival-----
-----')
```

```
def showData():
    cursor.execute('SELECT * FROM Data')
    data = cursor.fetchall()
    for d in data:
        print(d)

    #cursor.execute('SELECT * FROM Festivals')
    #data = cursor.fetchall()
    #for d in data:
    #    print(d)
```

```
def getData():
    global Email_ID
    global Month
    global Name
    global Number
    global Holiday
    global Date
```

```
Holiday,Date = [],[]
```

```
Email_ID,Month,Name,Number = [],[],[],[]
```

```
#To get Birthday's table data
cursor.execute('SELECT * FROM Data')
data = cursor.fetchall()
for d in data:
    Email_ID += [d[1]]
```

# BIRTHDAY SERVICE ASSESSMENT

```
Month+=[(str(d[3])).split('-')]
Name += [d[0]]
Number += [d[2]]
#print(d)
```

```
#To get Festival's table data
cursor.execute('SELECT * FROM Festivals')
data = cursor.fetchall()
for d in data:
    Holiday += [d[0]]
    Date += [(str(d[1])).split('-')]
```

```
def checkBirthdayToday():
    getData()
    for i in range(len(Month)):
        for j in range(len(Month[i])):
            if Month[i][j]==str(today.month) and Month[i][j-1]==str(today.day):
                print("List of Person's who have birthday today!")
                print(Name[i])

                M.sendMail(Name[i],Email_ID[i]) #This will send Mail to the person
                M.sendWTPM(Name[i][j],Number[i]) #This will send Whatsapp Message to
the person
```

```
def checkFestivalToday():
    getData()
    for i in range(len(Date)):
        for j in range(len(Date[i])):
            if str(today.month) == Date[i][j] and str(today.day) == Date[i][j-1]:
                for filename in os.listdir('.'):
                    if filename.startswith(Holiday[i]):
                        Text = open(Holiday[i]+" .txt")
                        Text = Text.read()          #Read or stored content of Holiday[i] to Text
variable.
                        Photo = open(Holiday[i]+" .png")
                        # The for loop will send emails to all present in table of Data.
                        for mail in Email_ID:
                            M.sendFM(Text,Photo.name,mail)

                        # The for loop will send Whatsapp Message to all present in table of
Data.
```

# BIRTHDAY SERVICE ASSESMENT

for Number in Number:

    M.sendFMWT(Number,Photo.name,Text)

Photo.close() # Closed opened file

checkFestivalToday() # Festival Function Called

checkBirthdayToday() # Birthday Function Called

# BIRTHDAY SERVICE ASSESSMENT

```
from email.message import EmailMessage # It provides creating or modifying
structured messages.
import imghdr # The imghdr module determines the type of image
import os
from PIL import Image #PIL is Python Image Library
import pywhatkit
import smtplib
import urllib.request # request module defines functions and classes which help in
opening URLs
```

```
msg = EmailMessage()
Sender_Mail = "hbd.service.01@gmail.com"
password = "hfsuwibmkiqtdmvm"
```

```
def sendMail(Name,Reciver_Mail):
    server = smtplib.SMTP('smtp.gmail.com',587) #Created gmail's server, and
connected to gmail API
    # Adding transfer layered security
    server.starttls()
    server.login(Sender_Mail,password) # Email, App password are inserted.
```

```
msg['Subject'] = 'Testing of HBD Service!'
msg['From'] = Sender_Mail
msg['To'] = Reciver_Mail
```

```
msg.set_content(f'Happy birthday {Name}!\nI hope all your birthday wishes and
dreams come true.')
```

```
urllib.request.urlretrieve('https://thumbs.dreamstime.com/b/colorful-happy-
birthday-cupcakes-candles-spelling-148323072.jpg',"HBD.jpg")
```

```
with open('HBD.jpg','rb') as f:
    file_data = f.read()
    file_type = imghdr.what(f.name)
    file_name = f.name
```

```
msg.add_attachment(file_data,maintype='image',subtype=file_type,filename=
file_name)
server.send_message(msg)
```

```
server.quit()
```

```
def sendWTPM(Name,Number):
```

# BIRTHDAY SERVICE ASSESSMENT

```
img = 'B1.jpg'
body = f'Happy birthday {Name}!\nI hope all your birthday wishes and dreams
come true.'
pywhatkit.sendwhats_image(Number,img,body,15,False,3)
```

#FM: Festival Message

```
def sendFM(Text,Photo,Reciver_Mail):
```

```
    server = smtplib.SMTP('smtp.gmail.com',587) #Created gmail's server, and
connected to gmail API
```

```
    # Adding transfer layered security
```

```
    server.starttls()
```

```
    server.login(Sender_Mail,password) # Email, App password are inserted.
```

```
msg['Subject'] = 'Testing of Festival Service!'
```

```
msg['From'] = Sender_Mail
```

```
msg['To'] = Reciver_Mail
```

```
msg.set_content(f'{Text}')
```

```
with open(Photo,'rb') as f:
```

```
    file_data = f.read()
```

```
    file_type = imghdr.what(f.name)
```

```
    file_name = f.name
```

```
msg.add_attachment(file_data,maintype='image',subtype=file_type,filename=
file_name)
```

```
server.send_message(msg)
```

```
server.quit()
```

```
def sendFMWT(Number,Photo,Text):
```

```
    body = f'{Text}'
```

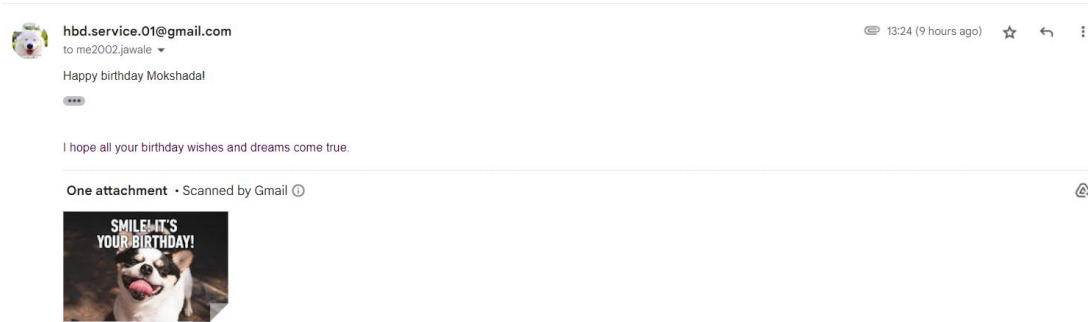
```
    pywhatkit.sendwhats_image(Number,Photo,body,15,False,3)
```

# BIRTHDAY SERVICE ASSESSMENT

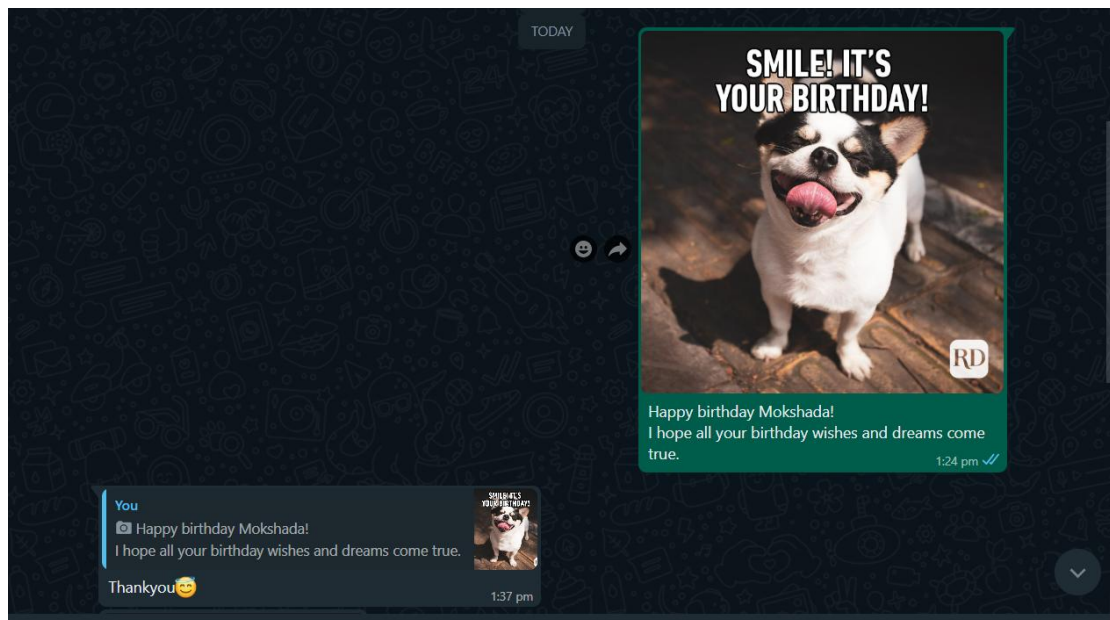
## 1) OutPut:-

Birthday Message:-

On Email:-



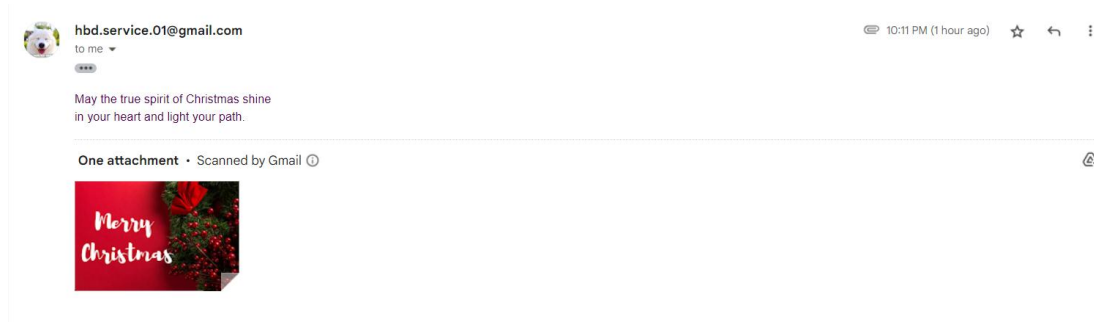
On Whatsapp:-



## 2) Festival Wisher:-

To test Festival Wisher, I updated Christmas date to today's date.

On Email



# BIRTHDAY SERVICE ASSESSMENT

On WhatsApp:-

I Have tested this for single Person

