

# EMAIL ALERTS ON WHATSAPP

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**Abstract:** Emails have become one of the most used digital communication mediums. But, sad truth, that since they are so aggressively used, it's quite difficult to keep up with them. Moreover, people keep on subscribing to new newsletters every now and then, which also adds to this cause. So, in order to make our life a little bit easier, we can build a tool which will fetch us the various details from our mail box on query. We will be creating a workflow in Twilio which queries the requested email data, according to a given search criteria, and sends their details to WhatsApp. Twilio is an efficient platform which provides us with the features needed to accomplish this. It's a message, email, call and notification automation tool/platform. We'll be utilizing some of its features through this project.

**Keywords:** Email, Twilio, WhatsApp, automation

## I. INTRODUCTION

The intention of this project is to build an automation tool using python for reading and writing mails from WhatsApp. We will be creating a workflow in Twilio which queries the requested email data, according to a given search criteria, and sends their details to WhatsApp. Twilio is an efficient platform which provides us with the features needed to accomplish this. It's a message, email, call and notification automation tool/platform. We'll be utilizing some of its features.

The purpose of this project is to design an automation bot using WhatsApp where we can view our mails and also can send mails consisting of text. Reading mails in WhatsApp is much easier because we spend most of the time on WA and not switching to another app can save us time and it also facilitates in user flexibility. Twilio WhatsApp sandbox is used to configure the incoming messages from the bot and we will deploy our code on the web server and it sends the calls to the sandbox with proper replies.



Fig 1: WhatsApp-Mail

## II. EXISTING PROBLEM

Emails have become one of the most used digital communication medium. But, sad truth, that since they are so aggressively used, it's quite difficult to keep up with them. Moreover, people keep on subscribing to new newsletters every now and then, which also adds to this cause. So, in order to make our life a little bit easier, we can build a tool which will fetch us the various details from our mail box on query.

Opening another application and checking for mails has been a biggest head ache over time because we spend a lot of time on social media apps like WhatsApp and we never wish to open some other application and check for mails. So, in order to save the time which increases the productivity of our time we can make use of WhatsApp and search for mails of our mail account in WhatsApp.

## III. PROPOSED SYSTEM

We will be creating a workflow in Twilio which queries the requested email data, according to a given search criteria, and sends their details to WhatsApp. Twilio is an efficient platform which provides us with the features needed to accomplish this. It's a message, email, call and notification tool/platform. We'll be utilizing some of its features through this project.

The Twilio sandbox for WhatsApp is a pre-configured environment available through the Twilio Console in which you can prototype sending outbound messages, replying to incoming messages, and configuring things like message delivery callbacks.

IMAP is an email retrieval protocol which does not download the emails. It just reads them and displays them. This is very useful in low bandwidth condition. Python's client-side library called **imaplib** is used for accessing emails over imap protocol. At last, we integrate the IMAP function into Twilio Functions.

## IV. PROJECT WORKFLOW

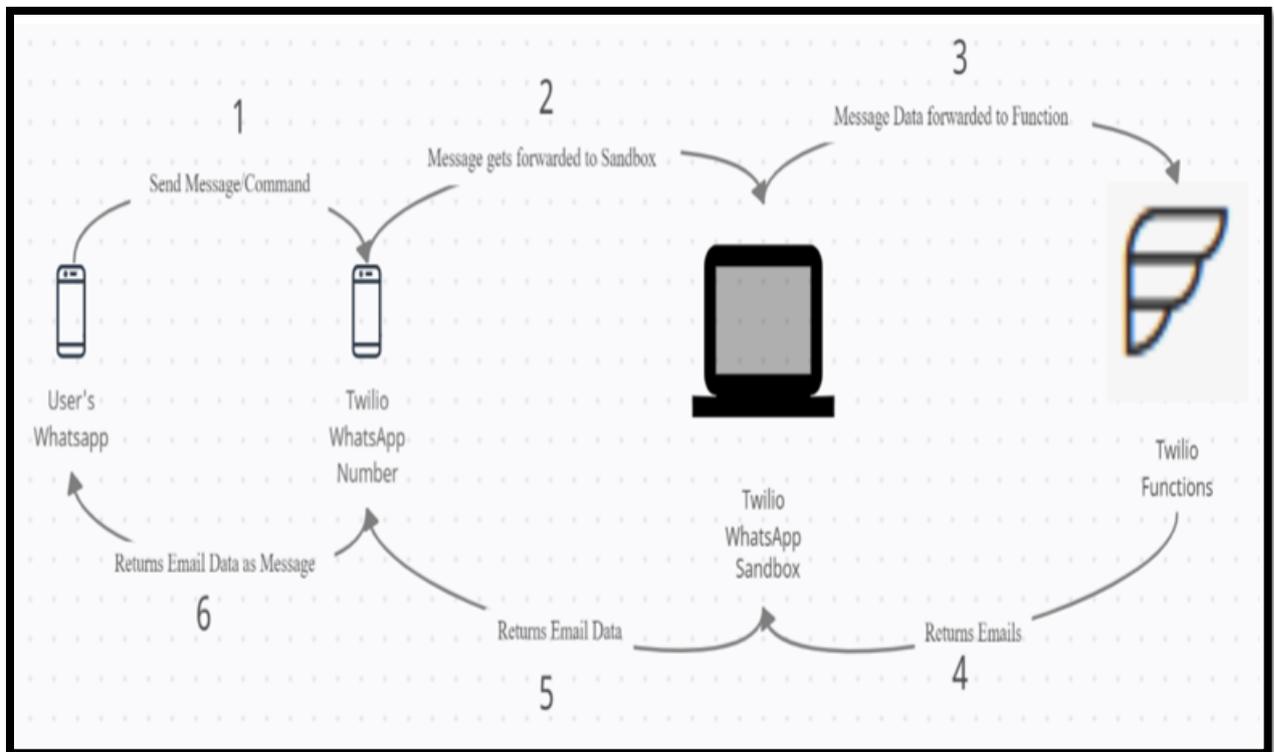


Fig 2: Project Workflow

**Functional Requirements**

The following are the Functional requirements of our system:

1. Initially Twilio is needed to automate the WhatsApp for Email Alerts.
2. Using IMAP and SMTP protocols we can connect to the mail account of an user in order to send and receive messages respectively.
3. We providing responses from the web app deployed on the server upon user queries for fetching and sending mails.

**Non – Functional Requirements**

In systems engineering and requirements engineering a non-functional requirements is a requirement that specifies criteria that can be used to judge the operation of a system rather than specific behaviours.

The project non-functional requirements include the following:

- Availability
- Flexibility
- Scalability
- Usability
- Performance

## V. INTERPRETATION AND RESULTS

**Software Specifications**

Software's used are:

PyCharm IDE  
 Twilio WhatsApp Sandbox  
 IMAP & SMTP  
 Python programming language  
 Git & Heroku

### Hardware Specifications

We require a Computer running Windows 10 with PyCharm configured and we will deploy our project through PyCharm to the Heroku server.

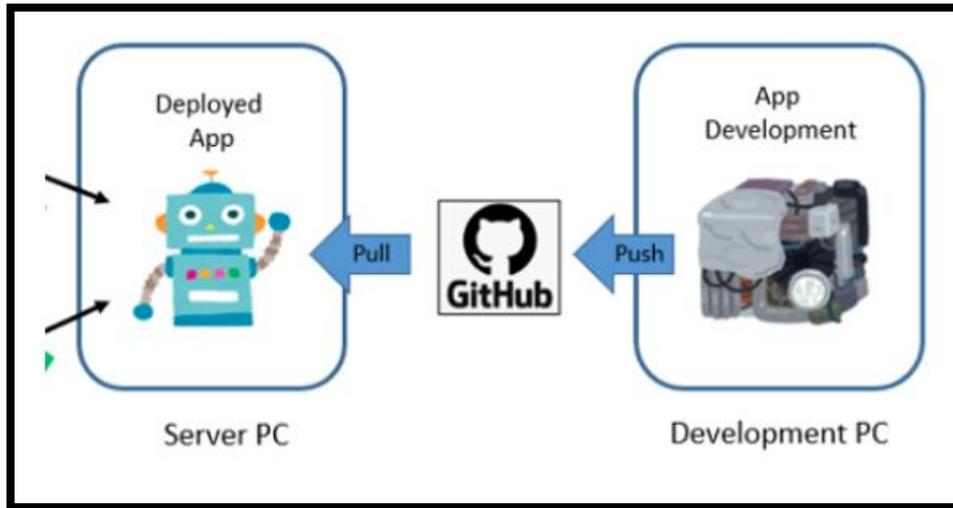


Fig 3: Deployment to Heroku

### Twilio Tool



Fig 4: Twilio

### OUTPUTS USING THE BOT ARE SHOWN BELOW



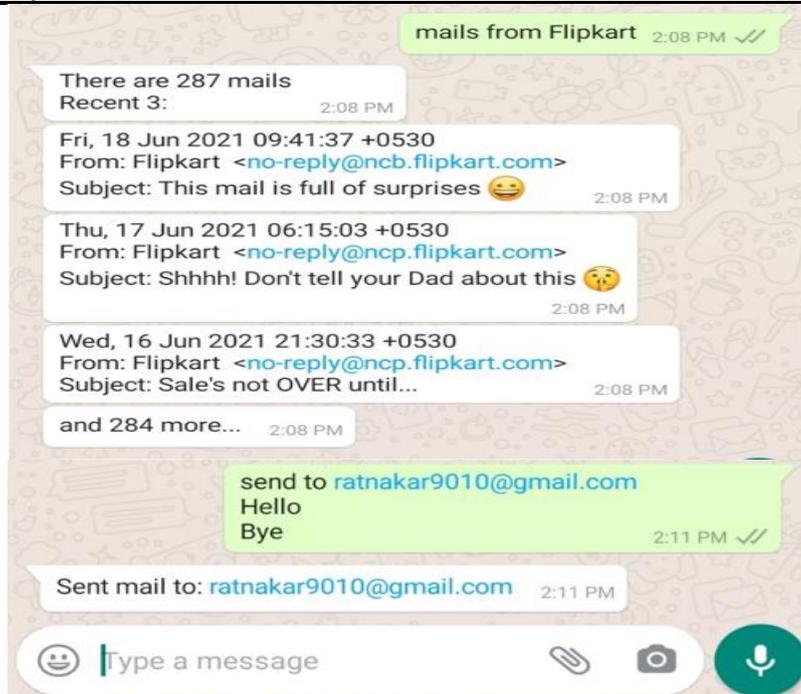


Fig 5: Output

## CONCLUSION

The Twilio Sandbox for WhatsApp is a pre-configured environment available through the Twilio Console in which you can prototype sending outbound messages, replying to incoming messages, and configuring things like message delivery callbacks. Twilio is not a free platform, it is a paid-service/platform. So, in order to use it more widely we need to purchase the subscription.

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