

**PROJECT REPORT ON**

**Event Registration & Notification Bot**



REPORT SUBMITTED

TO

VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY, PUNE

FOR THE PE-III SOFTWARE ROBOTICS

IN

**COMPUTER ENGINEERING DEPARTMENT**

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**INDEX**

Sr. No.	Contents
1.	Introduction
2.	Motivation
3.	Problem Statement
4.	Brief Description
5.	Tools Used
6.	Objectives
7.	Why Automation?
8.	Flow Chart
9.	Conclusion

## 1. Introduction

Communication is critical for organizations today. Sending bulk messages manually over email and WhatsApp consumes time and results in human errors. Our project, **Automated Messaging Bot**, uses **Automation Anywhere** to automate sending customized messages to multiple users based on data from an Excel file — ensuring fast, reliable, and efficient communication.

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## 2. Motivation

Educational institutions and companies often face challenges when sending information like invites, reminders, or important notifications. Manual messaging becomes impractical when managing hundreds of recipients. Hence, automating messaging tasks reduces human effort, ensures timely communication, and increases operational efficiency.

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## 3. Problem Statement

Manual communication processes are:

- Time-consuming and tedious,
- Prone to errors (wrong emails, missed recipients),
- Inefficient for large participant lists.

Thus, there is a need for an automated bot that:

- Reads Name, Mobile Number, and Email Address from Excel,
  - Sends personalized messages through Email and WhatsApp with minimal human intervention.
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## 4. Brief Description

The **Automated Messaging Bot** operates as follows:

- Reads an Excel file containing participants' Name, Mobile Number, and Email Address.
- Sends a **customized Email** to each participant through SMTP.

- Sends a **personalized WhatsApp message** via WhatsApp Web automation.
- Maintains logs for successful and failed communications.
- Closes resources after task completion.

This system is scalable and reliable for mass communication tasks.

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## 5. Tools Used

Tool/API	Purpose
Automation Anywhere	Main automation platform for bot creation
Microsoft Excel	Input source containing participant details
SMTP Server (Gmail)	Email communication
Web Browser (Chrome)	Access WhatsApp Web
WhatsApp API (wa.me links)	Sending messages through browser link automation
Python (optional)	Additional scripting support if needed

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## 6. Objectives

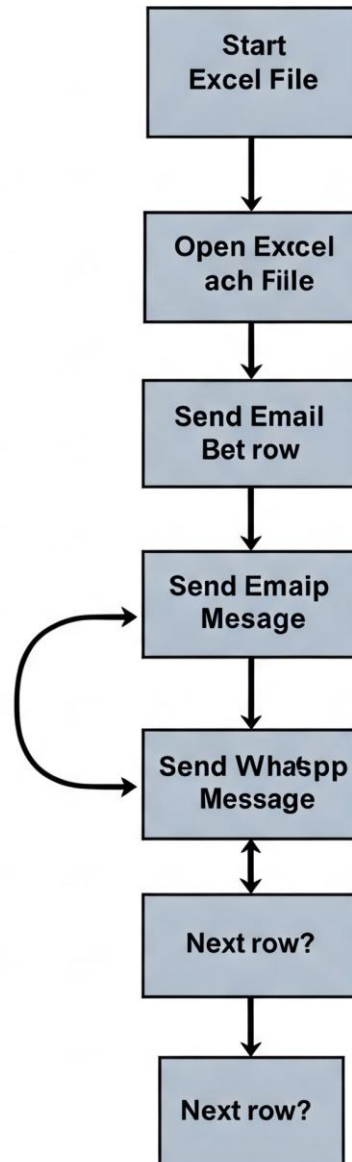
- Automate bulk messaging tasks.
- Ensure timely and error-free delivery of messages.
- Minimize human workload.
- Create a reusable, scalable communication framework.

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## 7. Why Automation?

- **Speed:** Hundreds of messages can be sent in minutes.
- **Accuracy:** No human typing errors.
- **Scalability:** Handles large datasets from Excel.
- **Consistency:** Uniform messaging format and delivery.
- **Efficiency:** Reduces workload and allows human resources to focus on strategic tasks.

## 8. Flow Chart



## 9. Conclusion

The Automated Messaging Bot offers a robust solution to the challenges of bulk communication faced by organizations. By leveraging the capabilities of Automation Anywhere and integrating with readily available tools like Microsoft Excel, SMTP servers, and WhatsApp Web (potentially enhanced with WhatsApp API links and optional Python scripting), this project successfully automates the process of sending personalized messages to a large number of recipients.

The implementation of this bot directly addresses the identified problems of time consumption, human error, and inefficiency associated with manual messaging. It provides a significant improvement in **speed, accuracy, scalability, and consistency** of communication.

Furthermore, the bot's design emphasizes **reusability and scalability**, creating a valuable framework that can be adapted for various communication needs and growing recipient lists. By minimizing human intervention, the Automated Messaging Bot not only streamlines communication workflows but also frees up valuable human resources to focus on more strategic and complex tasks.

In conclusion, the Automated Messaging Bot demonstrates the power of automation in transforming organizational communication, leading to more efficient, reliable, and effective dissemination of critical information. Its successful implementation signifies a step towards optimizing operational efficiency and enhancing overall productivity.