INTRODUCTION TO ROBOTIC PROCESS AUTOMATION

BIRTHDAY REMINDER BOT

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ABSTRACT

The Birthday Reminder Bot is an innovative solution designed to automate the process of remembering and celebrating birthdays. Using UiPath, this bot checks an Excel file containing birthdates and identifies individuals whose birthdays fall on the current date. It displays a personalized birthday message in a message box, wishing "Happy Birthday to [Name]." The bot then generates a QR code that, when scanned, enables users to send birthday greetings via WhatsApp or SMS to the respective contact. Additionally, the bot sends an automated email to the birthday person with a heartwarming message: "Happy Birthday [Name], have a wonderful day!" This automation ensures a seamless, efficient, and thoughtful way to celebrate birthdays.

NEED FOR PROPOSED SYSTEM

Automated Birthday Reminders:
Ensures timely notifications, reducing the risk of forgetting birthdays.

Modern Technology Integration:
Combines Excel management, QR codes, and email automation for efficient greetings.

Strengthened Relationships:
Simplifies personalized birthday wishes, fostering stronger connections.

ADVANTAGES

Automation of Birthday Management:

Eliminates manual tracking of birthdays, saving time and effort.

Personalized Notifications:

Provides tailored birthday greetings, enhancing the recipient's experience.

Integration with Modern Communication Channels:

Allows greetings via WhatsApp, SMS, and email, offering flexibility in communication.

Error Reduction:

Reduces human errors in remembering and sending birthday wishes.

Scalable Solution:

Easily adapts to handle multiple birthdays on the same day without additional complexity.

Innovative Features:

QR code integration simplifies message delivery, making the system user-friendly and interactive.
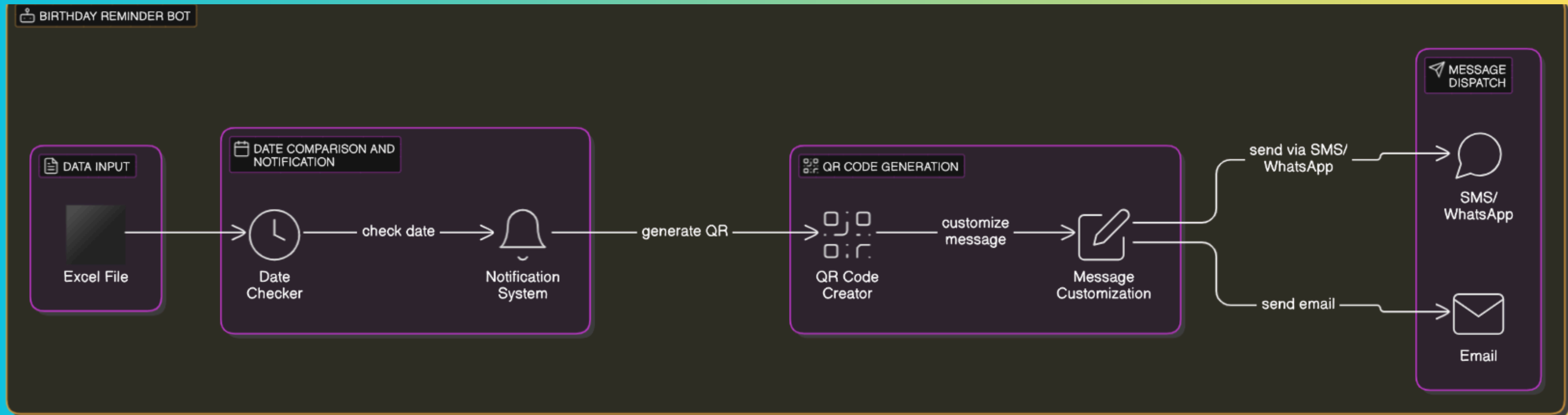
Strengthened Relationships:

Enables timely and thoughtful communication, fostering better relationships.

OBJECTIVE

The main objective of this project is to develop a comprehensive and automated Birthday Reminder Bot that simplifies the process of remembering and sending birthday wishes. The bot efficiently identifies individuals whose birthdays fall on the current date by comparing an input dataset, displays personalized messages through a message box, and generates dynamic QR codes to facilitate quick and versatile greetings via WhatsApp or SMS. Additionally, the bot ensures timely communication by automatically sending an email with a heartfelt birthday message to the celebrant, enhancing user convenience, fostering relationships, and eliminating the need for manual tracking or scheduling.

ARCHITECTURE

SYSTEM REQUIREMENTS
Hardware Requirements

Processor: Minimum Dual-Core CPU (Recommended: Intel i5 or higher)

Memory (RAM): 4 GB (Recommended: 8 GB or higher)

Storage: At least 20 GB free space

Internet Connection: Stable broadband for email and API integration

Devices: Keyboard, mouse, and optional QR code scanner

Software Requirements

Operating System: Windows 10 or later / macOS / Linux

RPA Platform: UiPath Studio 2023 or later

Required Packages:
- **UiPath.Mail.Activities (Email Integration)**
- **UiPath.Excel.Activities (Excel Management)**

Browser: Google Chrome / Microsoft Edge (with UiPath extensions)

MODULES

- **Input Data Processing**
- **Notification Module**
- **QR Code Generation Module**
- **Communication Module**
- **Logging and Summary Module**

CONCLUSIONS

The Birthday Reminder Bot automates the process of sending birthday greetings by comparing the current date with birthdates from an Excel sheet. It generates dynamic QR codes for each birthday, allowing users to send personalized messages via WhatsApp or SMS. The bot also automatically sends birthday emails to the respective individuals. By combining data management, QR code generation, and messaging, it offers a convenient, seamless solution for remembering and celebrating birthdays. This system enhances communication efficiency and ensures timely greetings.

REFERENCES

UiPath Documentation: Official UiPath documentation for understanding workflows, activities, and integrations.
URL: https://docs.uipath.com

QR Code Generation: Tutorials and resources on generating dynamic QR codes in Python or UiPath.
URL: https://www.qrcode-monkey.com/

SMTP Email Sending: Reference for sending automated emails through SMTP using UiPath.
URL:https://docs.uipath.com/activities/docs/send-outlook-mail-messageExcel Automation in UiPath: Guide for working with Excel activities in UiPath.

- **URL:https://docs.uipath.com/activities/docs/microsoft-excel-application-scope**