

n8n Executive Weather Update Automation

Project Documentation / Nneamaka Glory Edeodo

1. Project Overview

I built an n8n automation for an executive assistant use case where a CEO needs a daily weather update for San Francisco, California. The workflow is designed to run automatically Monday through Friday at 6:00 AM, retrieve the latest weather forecast, format the information into a clear update, and prepare it for delivery through multiple communication channels.

2. Business Problem

Manually checking weather information every morning and sending an update to an executive takes repetitive time and can easily be forgotten. The automation removes that repetitive task by making the process scheduled, consistent, and repeatable.

3. Objective

- Run automatically Monday–Friday at 6:00 AM.
- Retrieve weather information for San Francisco, CA.
- Process the forecast into a concise executive-friendly update.
- Send or route the update through email and team communication channels.
- Create a workflow that can be tested and reused without manually repeating the process.

4. Tools & Technologies

- n8n – workflow automation and orchestration
- Weather API/service – retrieving forecast data
- Gmail/Email – executive notification channel
- Slack – team communication channel
- Discord – communication channel
- Telegram – communication channel
- Expressions/data mapping in n8n – formatting dynamic forecast information

5. Workflow Structure

Schedule Trigger: Starts the workflow automatically at 6:00 AM on weekdays.

Weather Request: Requests the forecast for San Francisco, California.

Data Processing / Formatting: Extracts useful weather details and prepares a readable executive update.

Email Delivery: Routes the formatted weather update to the designated email channel.

Slack Delivery: Routes the same update to Slack.

Discord Delivery: Routes the same update to Discord.

Telegram Delivery: Routes the same update to Telegram.

Testing: Runs the workflow manually and/or through the schedule to verify that data is retrieved and messages are formatted correctly.

6. Example Executive Update

Good morning. Here is today's San Francisco weather update:

- Location: San Francisco, CA
- Current/forecast condition: [dynamic weather condition]
- Temperature: [dynamic temperature]
- Precipitation/rain information: [dynamic value]
- Additional forecast details: [dynamic value]

The exact values are populated automatically from the weather data source.

7. Testing & Troubleshooting

I tested the workflow node by node to confirm that the schedule, weather request, data mapping, and message formatting worked as expected. I also checked the output before using the workflow for automated delivery. During setup, email authentication/credentials required attention, which reinforced the importance of validating credentials and testing each integration before activating an automation.

8. Skills Demonstrated

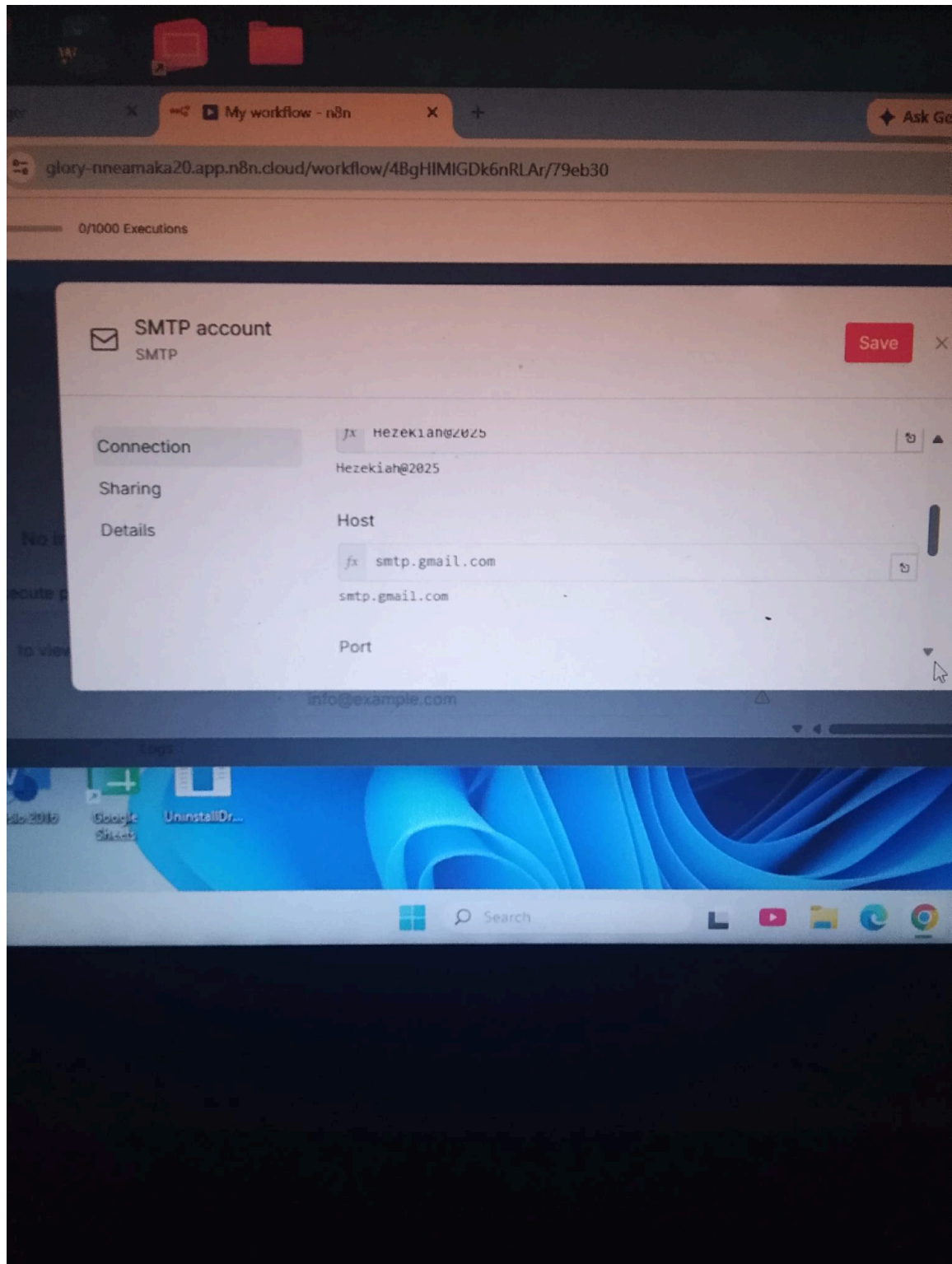
- Workflow automation
- n8n workflow building
- API/data retrieval
- Scheduling and triggers
- Data mapping and formatting
- Multi-channel communication automation
- Troubleshooting and testing
- Process improvement
- Executive support automation
- Documentation

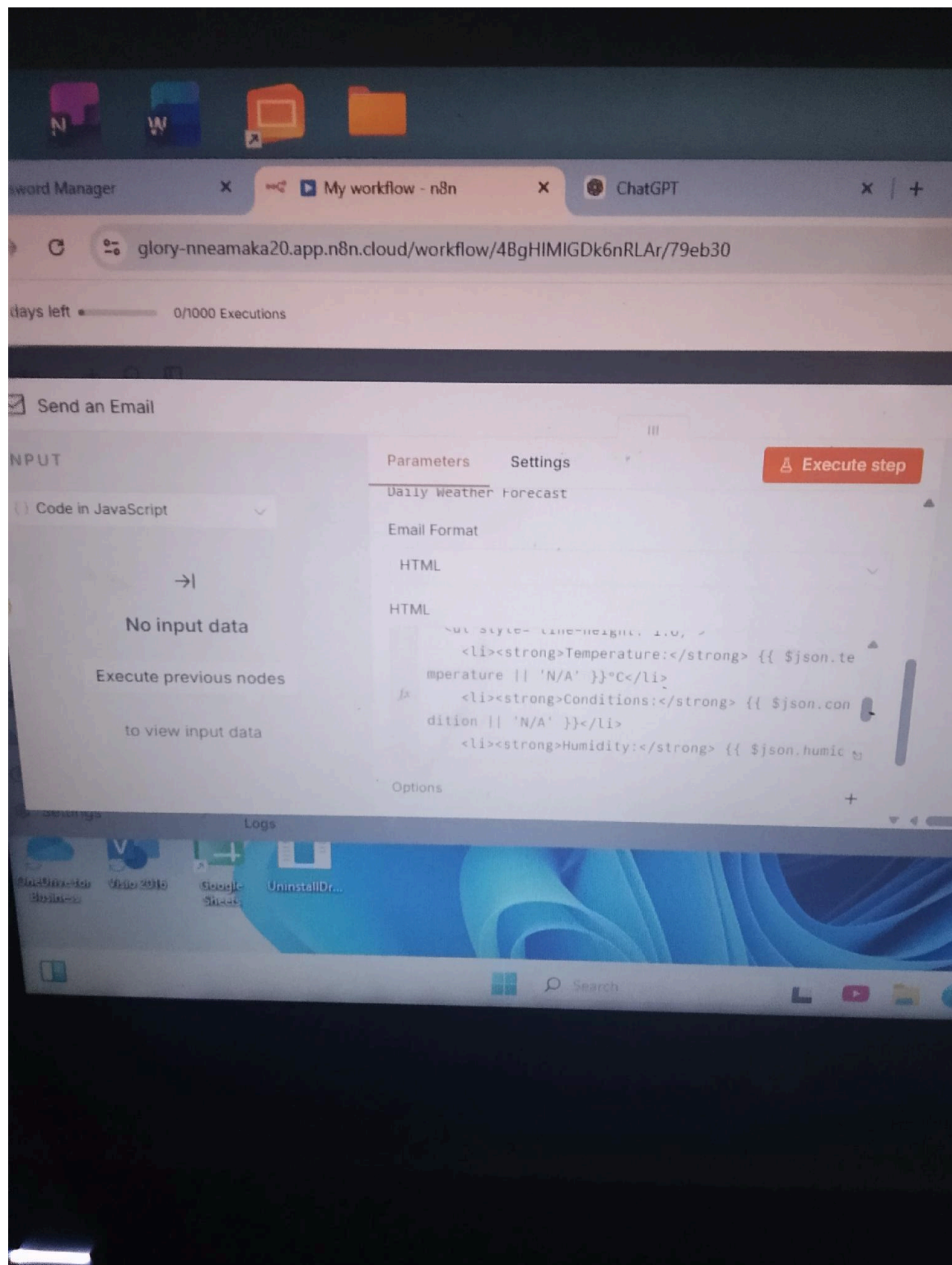
9. Business Value

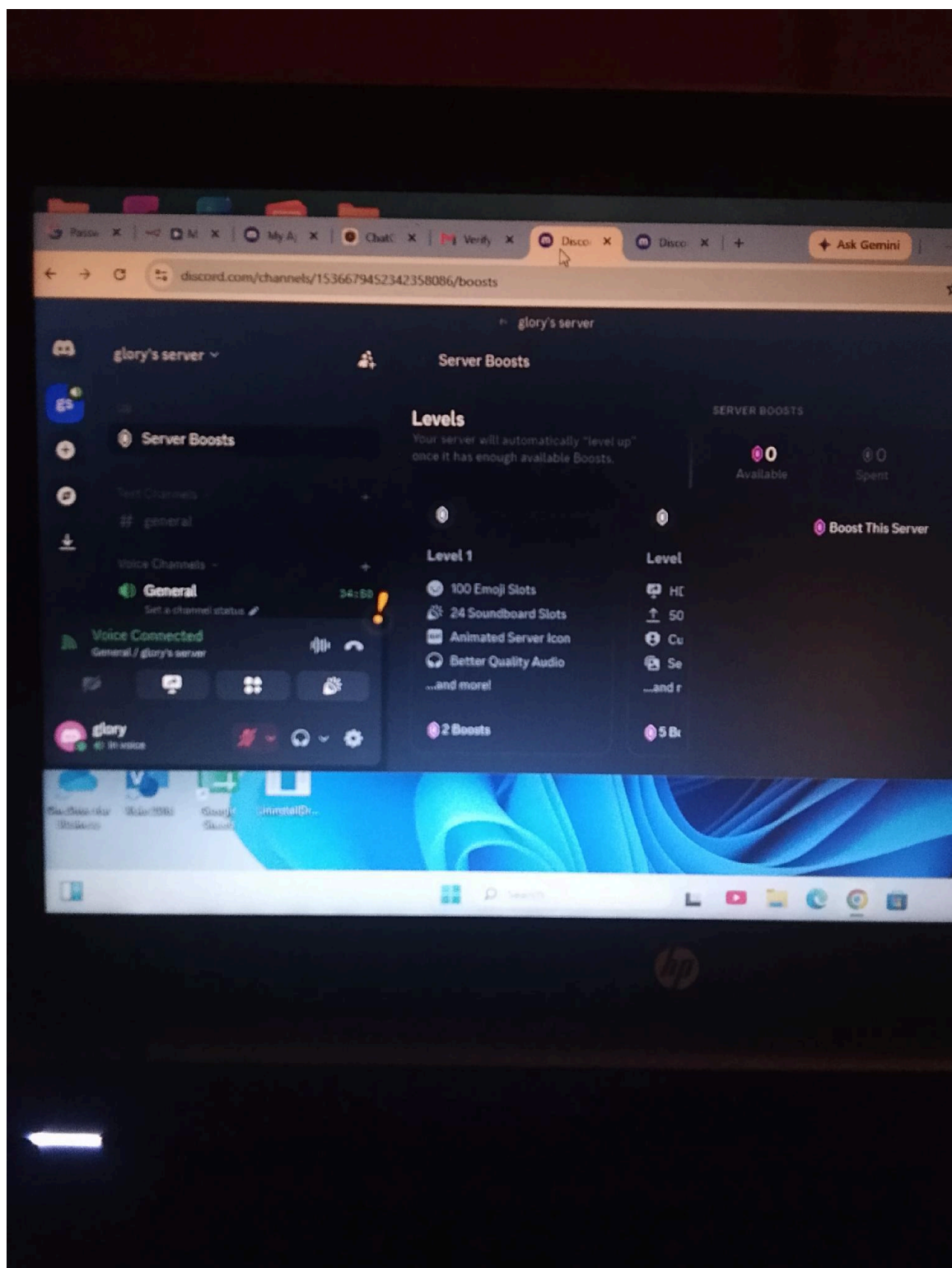
This automation reduces repetitive administrative work, improves consistency, and makes sure the executive receives a timely weather update without someone having to manually check and send it every morning.

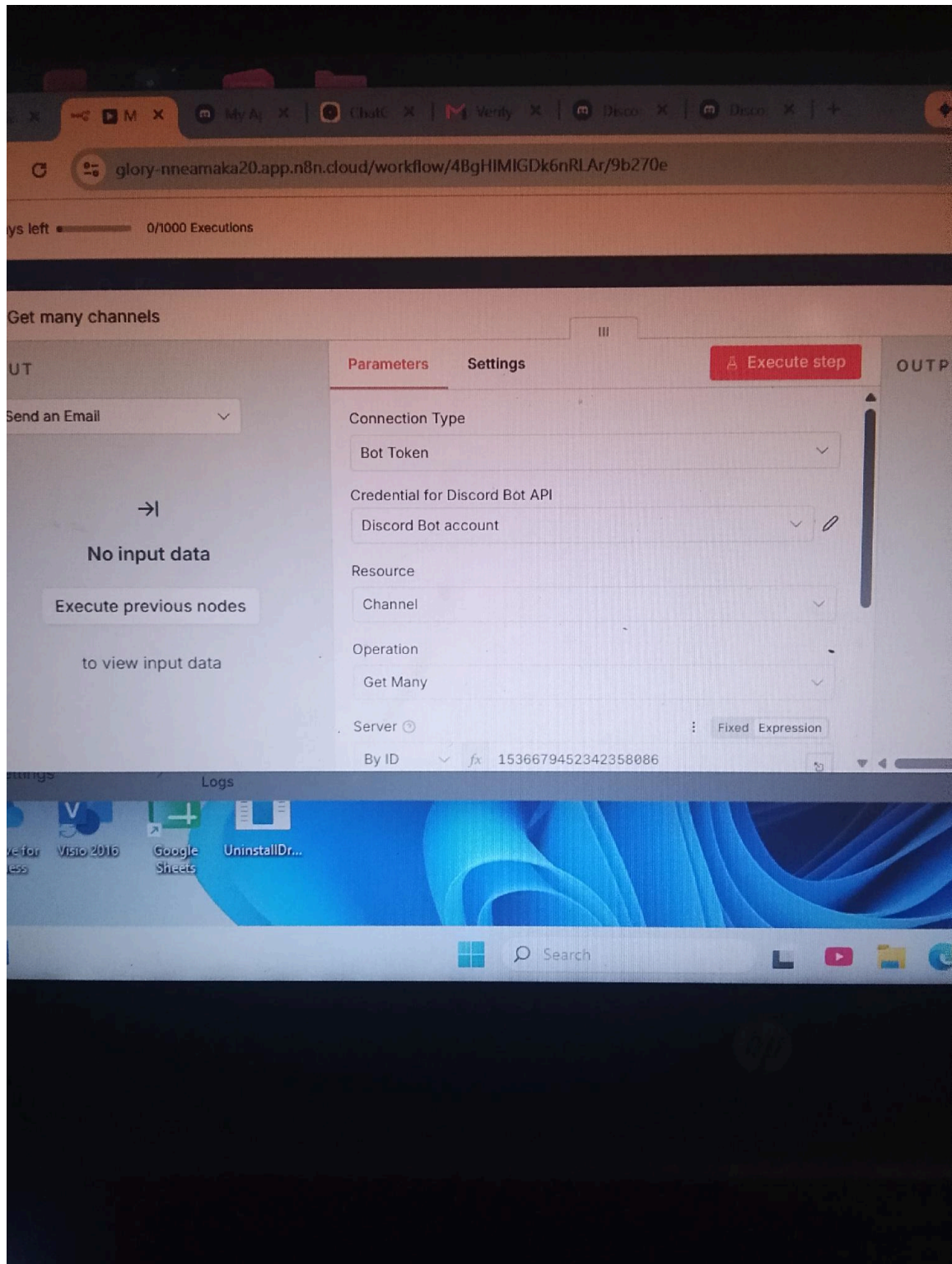
10. Project Status

Portfolio project completed as an n8n automation assignment. Delivery-channel evidence should only be included where the integration was actually configured and successfully tested.









10 days left 0/1000 Executions

Upgrade Now

Schedule Trigger

Docs x

Parameters Settings

Execute step

OUTPUT 1 item

Trigger Interval 1

Trigger Interval

fx cronExpression

cronExpression

You can find help generating your cron expression here

Expression

fx {{06**1-5}}

1

+ Add Rule



Problem in node 'Schedule Trigger'

Invalid cron expression

Invalid cron expr
More information
them at https://

Ask AI Assist

OneDrive for Business

Visio 2016

Google Sheets

UninstallDr...



Search

