Extract Random Weather

Date: 08-09-2025
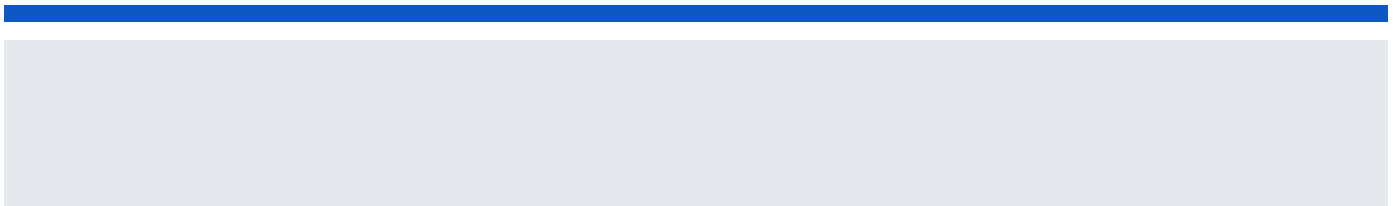
Process Design Document History

Date	Version	Role	Name	Organization	Function	Comments
08.09.2025	1.0	Author	Amr Ayman	Raya IT	BA,RPA Developer	Creation v1.0

Table of Contents

I. Introduction

I.1 Purpose of the document

The Process Definition Document outlines the business process chosen for automation using UiPath Robotic Process Automation (RPA) technology.

The document describes the sequence of actions performed as part of the business process, the conditions and rules of the process prior to automation and how they are envisioned to work after automating it, partly or entirely. This specifications document serves as a base for developers, providing them with the details required for applying robotic process automation to the selected business process.

I.2 Objectives

The Automation of the full process of extract random weather task , reducing the human interaction to zero, the system will operate seamlessly through the edge web browser delivering faster processing, reducing the duration time of time-consuming activities and improving overall performance and reliability

Objectives	Expected Benefits
Automate the full Extract weather Information	Eliminate manual intervention, ensuring end-to-end seamless execution.
Reduce human interaction to zero	Minimize errors from manual handling, improve compliance and accuracy
Accelerate processing speed of verification tasks	Shorten overall task cycle time, enabling faster turnaround for stakeholders
Reduce duration of time-consuming activities	Free up staff capacity for higher-value activities, leading to productivity gains
Improve overall performance	Standardized processes, ensuring consistency and scalability
Increasing system reliability through automation	Lower risk of process failure, improve trust in system outputs
Support continuous operations with minimal downtime	Enhance operational efficiency and customer satisfaction

I.3 Process key contact

Role	Name	Contact details (email, phone number)	Notes
RPA Developer / BA	Amr Ayman	amr@raya.com	
SME	Eng. Mohamed Mesbah	M.Mesbah@gmail.com	Contact for questions, details, approvals

II. As-Is process description

II.1 Process Overview

The Extract weather information is currently performed manually across edge web browser, the employee must open the edge web browser go search for generate random weather and go to the first link , apply weather specifications and generate it , then extract the info and put it into txt file.

Due to the high level of manual intervention, the task is time-consuming, error-prone, and dependent on staff availability, often leading to delays in verification, inconsistent outputs, and operational inefficiencies. Additionally, manual handling increases the risk of overlooking discrepancies, requiring additional rework and cross-departmental follow-ups.

II.2 Standard Of Metrics

#	Item	Description
1	Process full name	Extract Random Weather
2	Process Area	Weather Generation
3	Department	Weather Generation
4	Process short description (operation, activity, outcome)	Search for weather random generator, choose the weather options to be warm , winter , rare , generate the weather then extract info and save to txt file
5	Role(s) required for performing the process	1
6	Process schedule and frequency	Everyday at 8:00 am
7	# of items processed /reference period	1
8	Process execution time	1 min
9	Peak period (s)	NA
10	Transaction Volume During Peak period	NA
11	Total # of FTEs supporting this activity	1

12	Expected increase of volume in the next reference period	NA
13	Level of exception rate	5%
14	Input data	Weather climate, weather season, weather
15	Output data	Txt file with all weather information
15	Return on Investment	Reduce the processing time by 80% and FTE to zero

II.3 Applications used in the process

#	Application name & version	System Language	Thin/Thick Client	Environment/ Access method	Comments
1	Edge Browser	English	Thick	Desktop App	Majority of processing

II.4 Business Rules

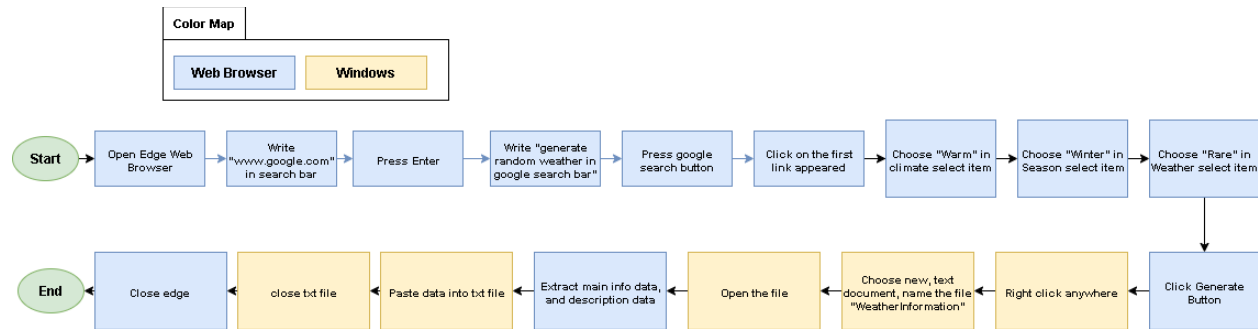| Business Rule	Description
BR-01	Employee must use the first link appears after search
BR-02	The employee must extract maininfo and description seperatly
BR-03	The employee must save new file for everyday

II.5 As-Is Process map

High Level As-Is Process Map:

This chapter depicts the As-Is business process at a High Level to enable developers to have a high-level understanding of the current process.

```
                    ( Start )
                        │
                        ▼
        ┌───────────────────────────────┐
        │  Open Edge Browser             │
        │  1 actions  ·  3.7sec          │
        └───────────────────────────────┘
                        │
                        ▼
        ┌───────────────────────────────┐
        │  Go to google Search           │
        │  2 actions  ·  2.5sec          │
        └───────────────────────────────┘
                        │
                        ▼
        ┌───────────────────────────────┐
        │  Go To Random Weather Generator│
        │  3 actions  ·  5.8sec          │
        └───────────────────────────────┘
                        │
                        ▼
        ┌───────────────────────────────┐
        │  Generate Random Weather       │
        │  4 actions  ·  6.8sec          │
        └───────────────────────────────┘
                        │
                        ▼
        ┌────────────────────────────────────────────┐
        │  Create txt File "WeatherInformation" and Open│
        │  5 actions  ·  6.1sec                        │
        └────────────────────────────────────────────┘
                        │
                        ▼
        ┌───────────────────────────────┐
        │  Extract Weather Data          │
        │  2 actions  ·  1.5sec          │
        └───────────────────────────────┘
                        │
                        ▼
        ┌───────────────────────────────────────────┐
        │  Paste Data into WeatherInformation File    │
        │  3 actions  ·  3.6sec                       │
        └───────────────────────────────────────────┘
                        │
                        ▼
        ┌───────────────────────────────┐
        │  Close the Edge Browser        │
        │  1 actions  ·  3.9sec          │
        └───────────────────────────────┘
                        │
                        ▼
                     ( End )
```
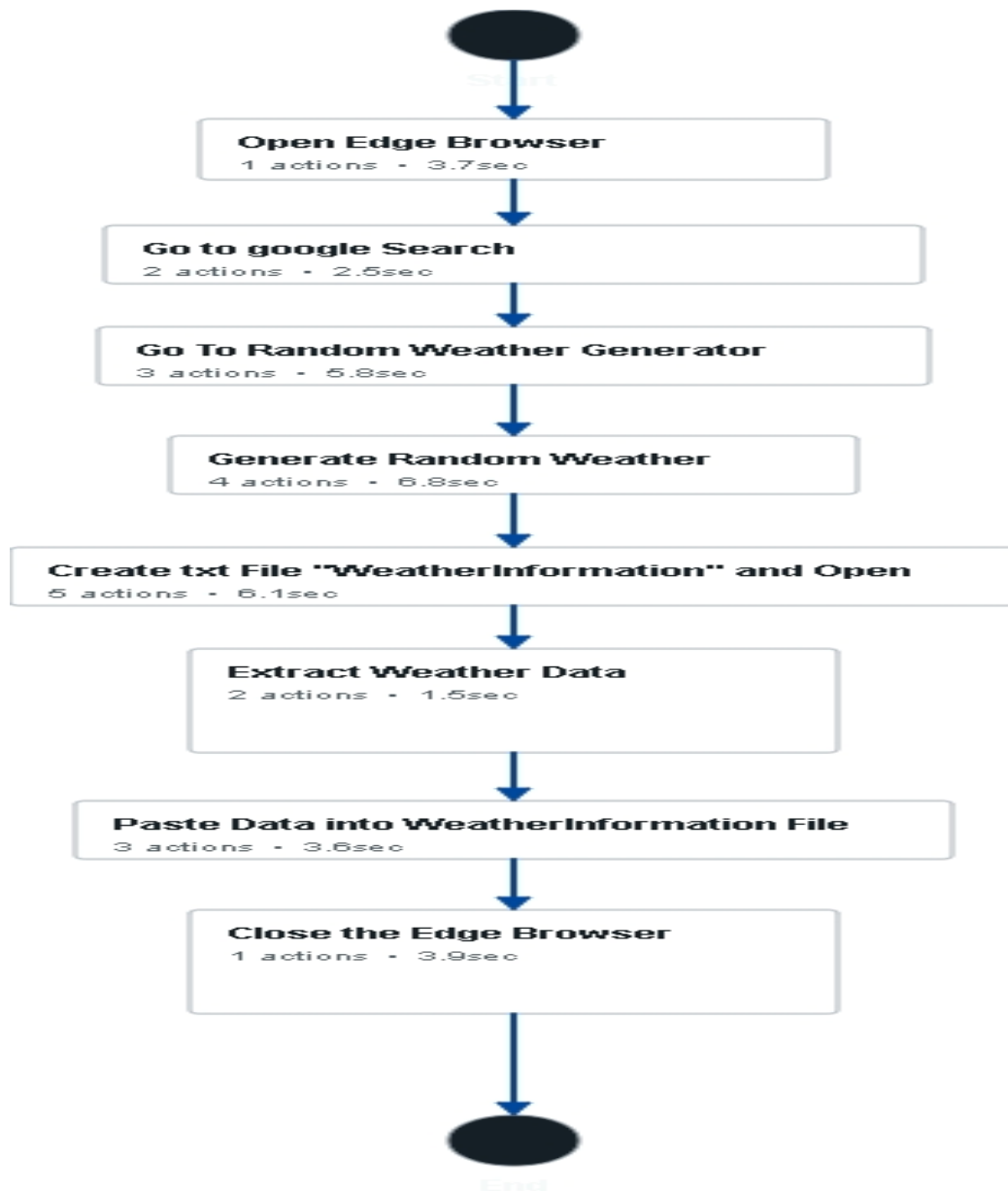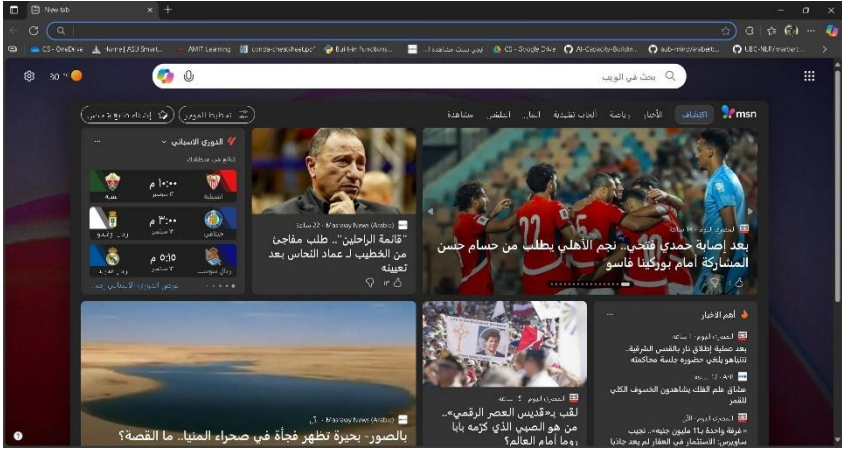
Detailed As-Is Process Map:

Step	Short Description
1.1	Open Edge Browser
2.1	Write www.google.com in the search bar
2.2	Press the Enter key
3.1	Write "generate random weather" in the Google search bar
3.2	Click the Google Search button
3.3	Click on the first link
4.1	Change the Climate select item to "Warm"
4.2	Change the Season to "Winter"
4.3	Change the Weather to "Rare"
4.4	Click the Generate button
5.1	Right-click anywhere on the screen
5.2	Choose "New"
5.3	Choose "Text Document"
5.4	Name the file "**WeatherInformation**"
5.5	**Open** the file
6.1	**Extract** the **Weather Main Info**
6.2	**Extract** the **Weather Description**
7.1	**Paste** the **Weather MainInfo**
7.2	**Paste** the **Weather Description**
7.3	**Close** the text file

8.1	**Close** the Edge Browser

II.6 Detailed As-Is Process Actions

1. Open Edge Browser

	Est. time: 3.7 sec.

1.1 Open edge Browser

	Est. time: 3.7 sec.
	Action: Keyboard Input

2.   Go to google Search

	Est. time: 2.5 sec.

2.1 Write www.google.com in search bar

	Est. time: 0.5 sec.
	Action: Special Key
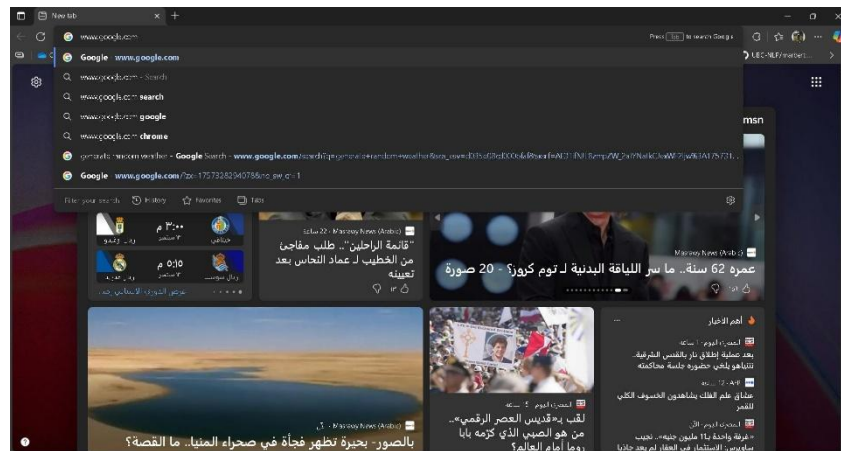
2.2 Press Enter

	Est. time: 1.10 sec.
	Action: Special Key

3.   Go To Random Weather Generator

	Est. time: 5.8 sec.

3.1 Write "generate random weather" in google search bar

	Est. time: 0.6 sec.
	Action: Special Key
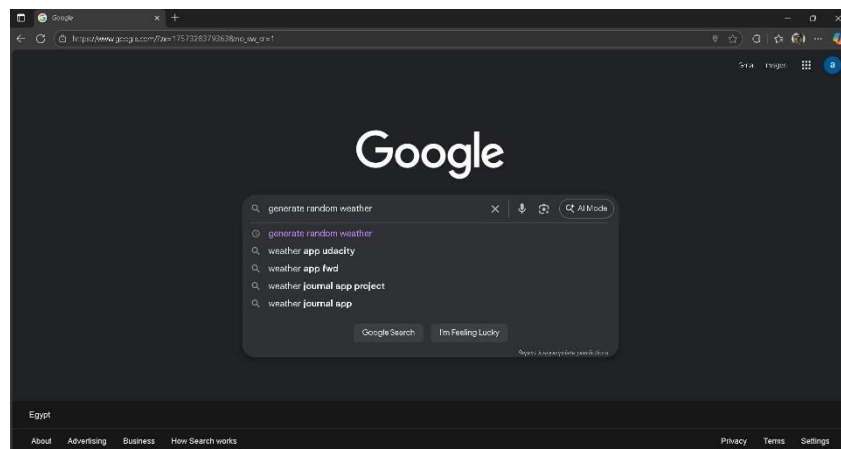
3.2 Press Google Search button

	Est. time: 3.1 sec.
	Action: Click
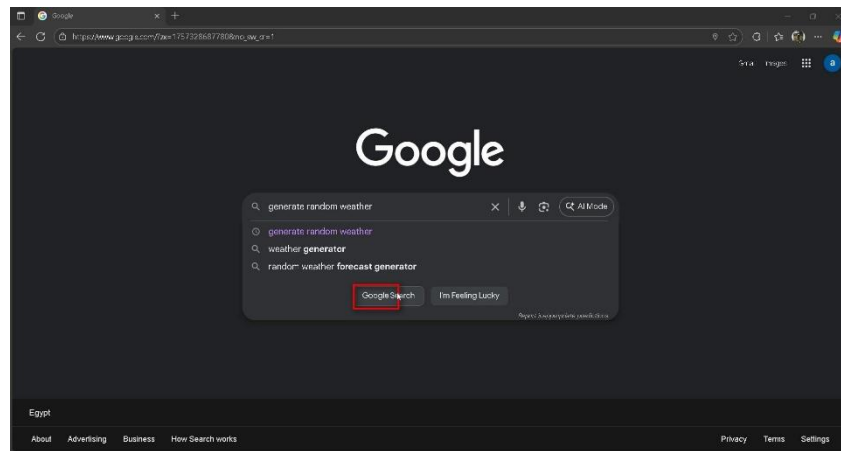
3.3 Click On first link

	Est. time: 2.1 sec.
	Action: Click
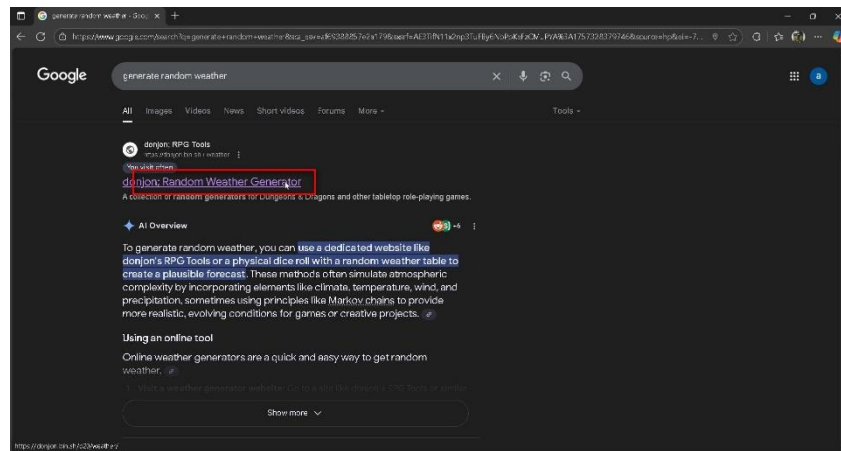
4. Generate Random Weather

	Est. time: 6.8 sec.

4.1 Change Climate select item to "Warm"

	Est. time: 1.10 sec.
	Action: Click
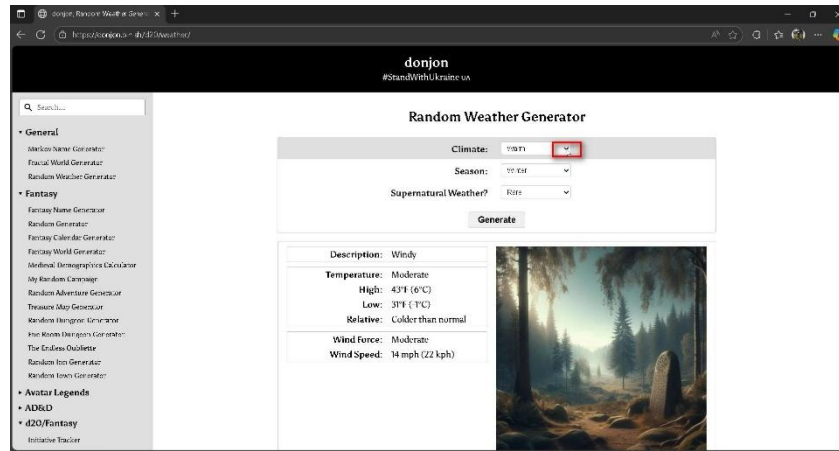
4.2 Change Season to "Winter"

	Est. time: 1.4 sec.
	Action: Click
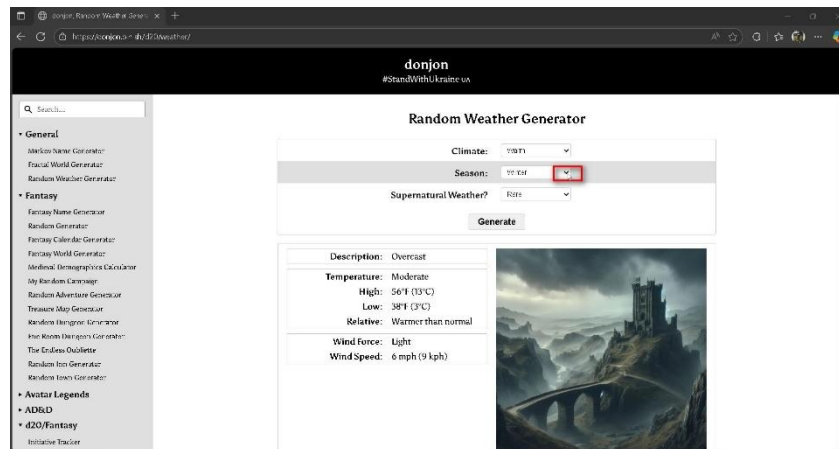
4.3 Change Weather to "Rare"

	Est. time: 0.8 sec.
	Action: Click
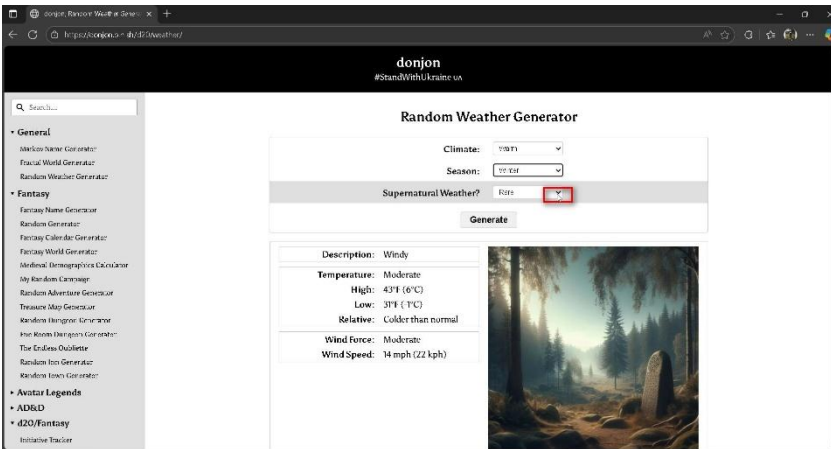
4.4 Click Generate Button

	Est. time: 2.6 sec.
	Action: Click
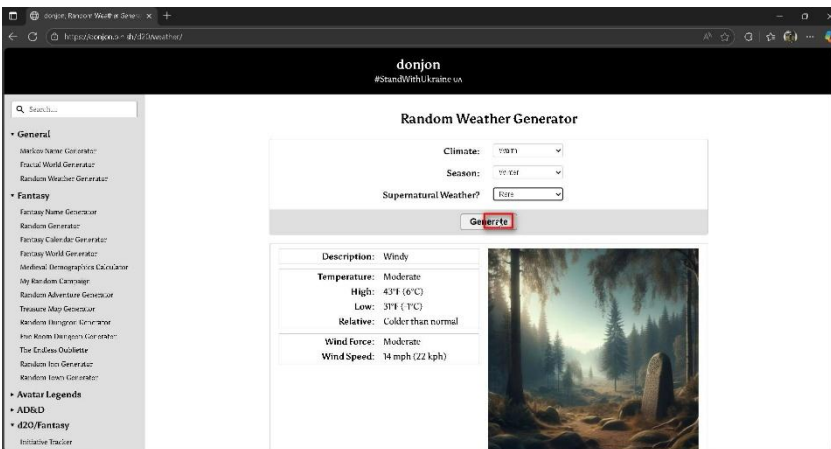
5. Create txt File "WeatherInformation" and Open

	Est. time: 6.1 sec.

5.1 Right Click in anywhere

	Est. time: 0.9 sec.
	Action: Click
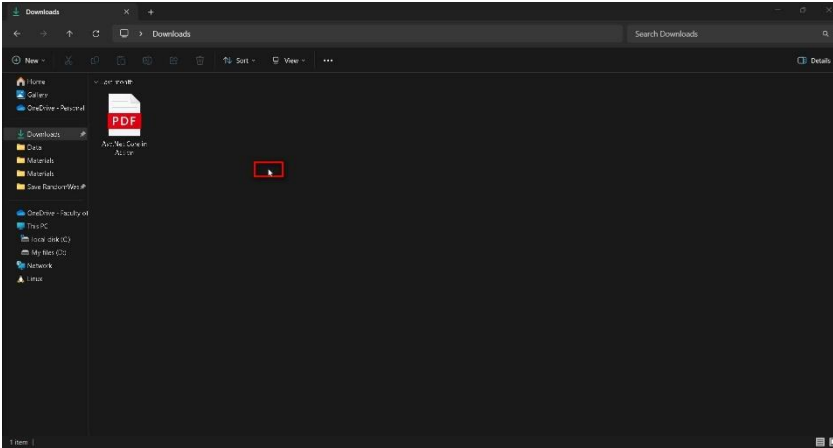
5.2 Choose New

	Est. time: 1.5 sec.
	Action: Click
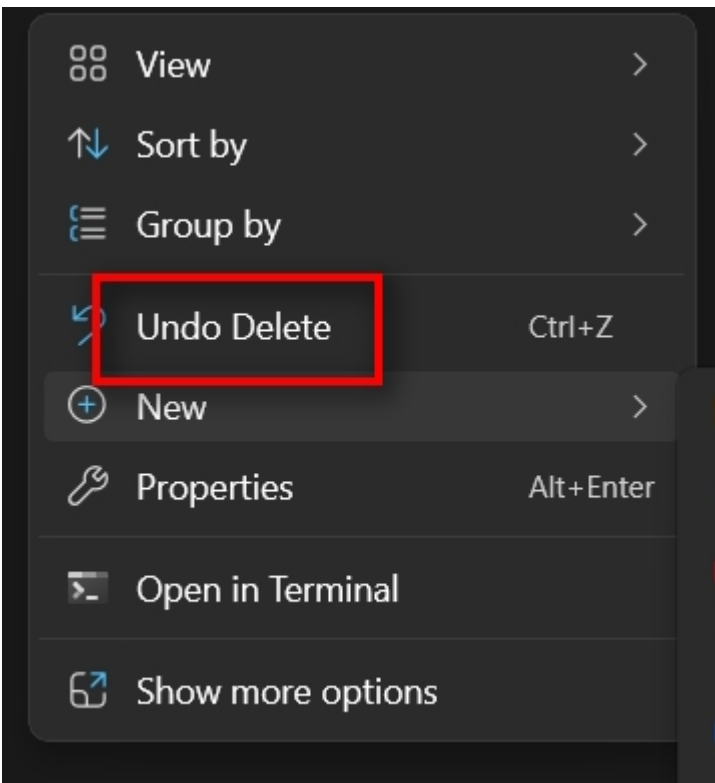
5.3 Choose Text Document

	Est. time: 1.7 sec.
	Action: Click
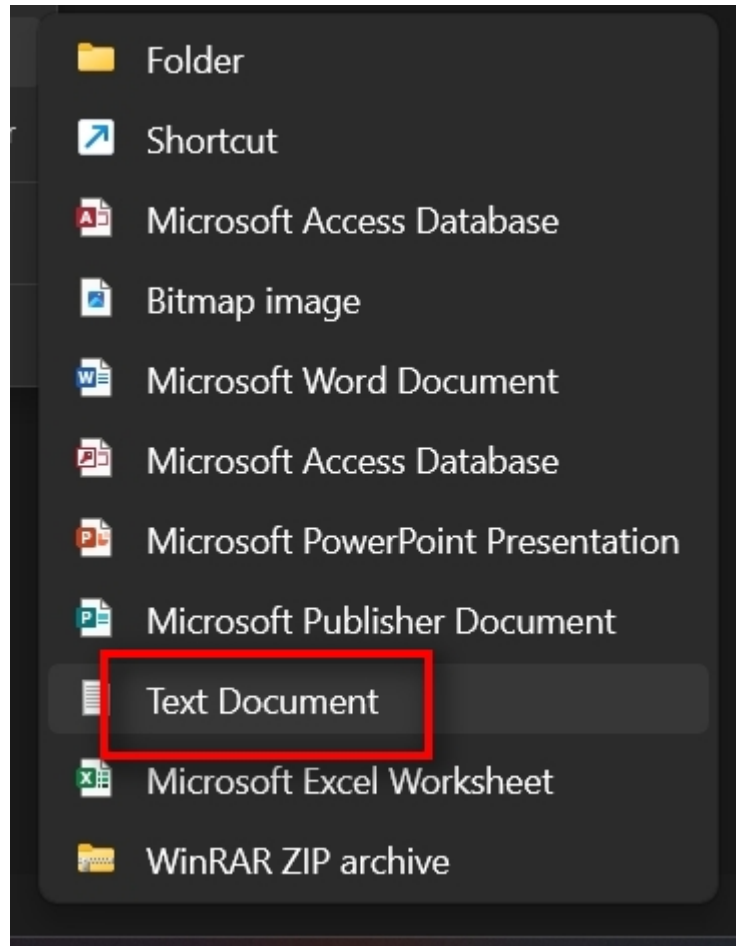
5.4 Name The File "WeatherInformation"

	Est. time: 0.3 sec. Action: Keyboard Input
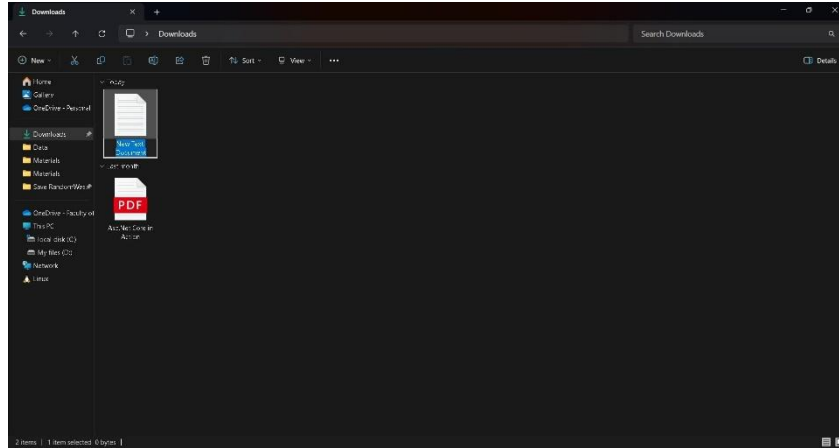
5.5 Open The file

	Est. time: 1.7 sec. Action: Click
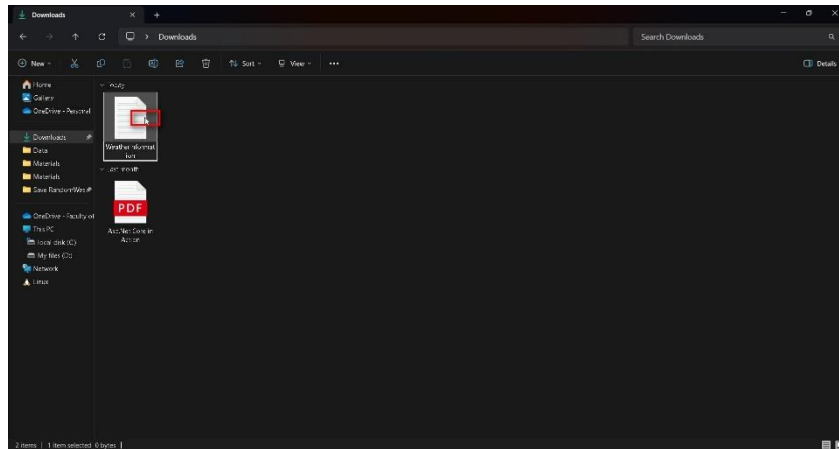
6. Extract Weather Data

	Est. time: 1.5 sec.

6.1 Extract Weather Main Info

	Est. time: 0.2 sec.
	Action: Hotkey
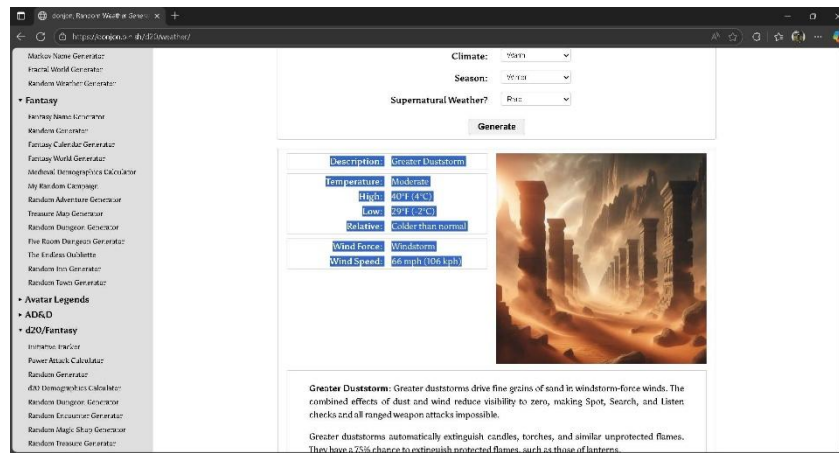
6.2 Extract Weather Description

	Est. time: 1.3 sec.
	Action: Click
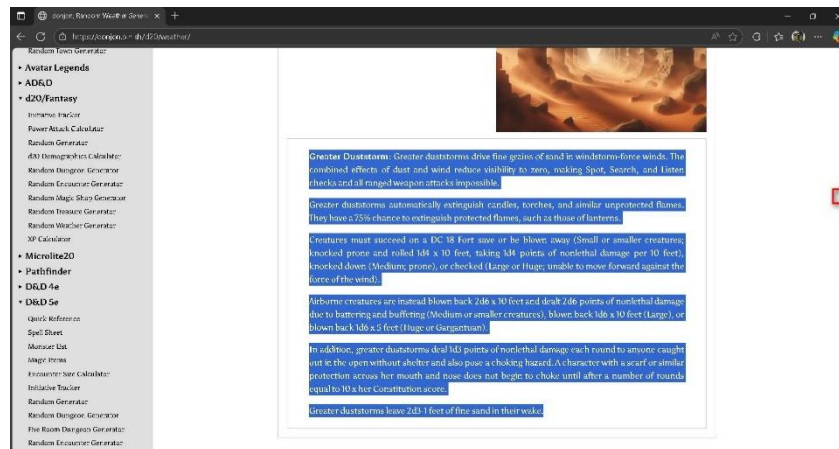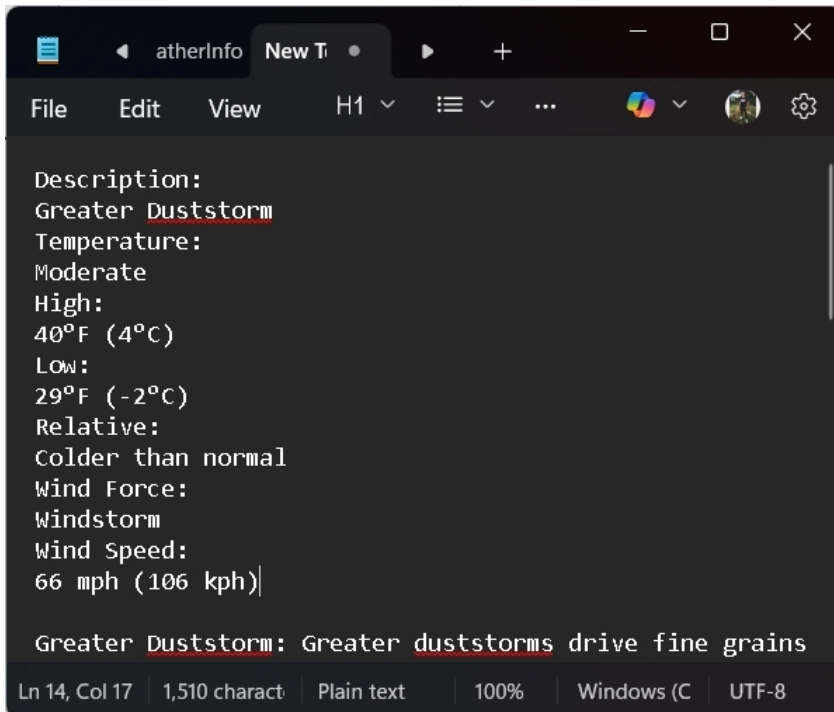
7. Paste Data into WeatherInformation File

	Est. time: 3.6 sec.

7.1 Paste Weather MainInfo
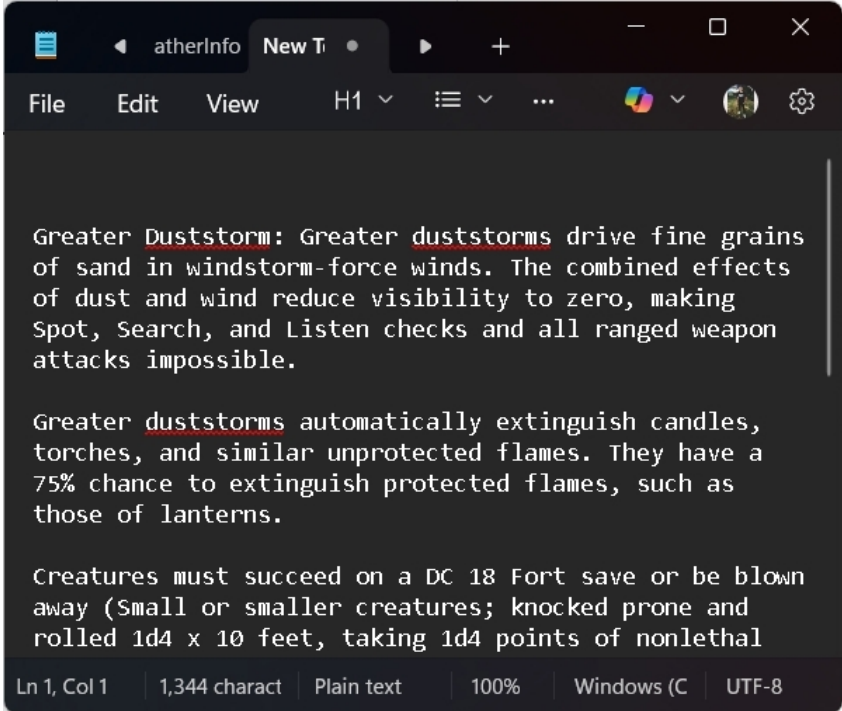
	Est. time: 0.2 sec.
	Action: Hotkey

Description:
Greater Duststorm
Temperature:
Moderate
High:
40°F (4°C)
Low:
29°F (-2°C)
Relative:
Colder than normal
Wind Force:
Windstorm
Wind Speed:
66 mph (106 kph)
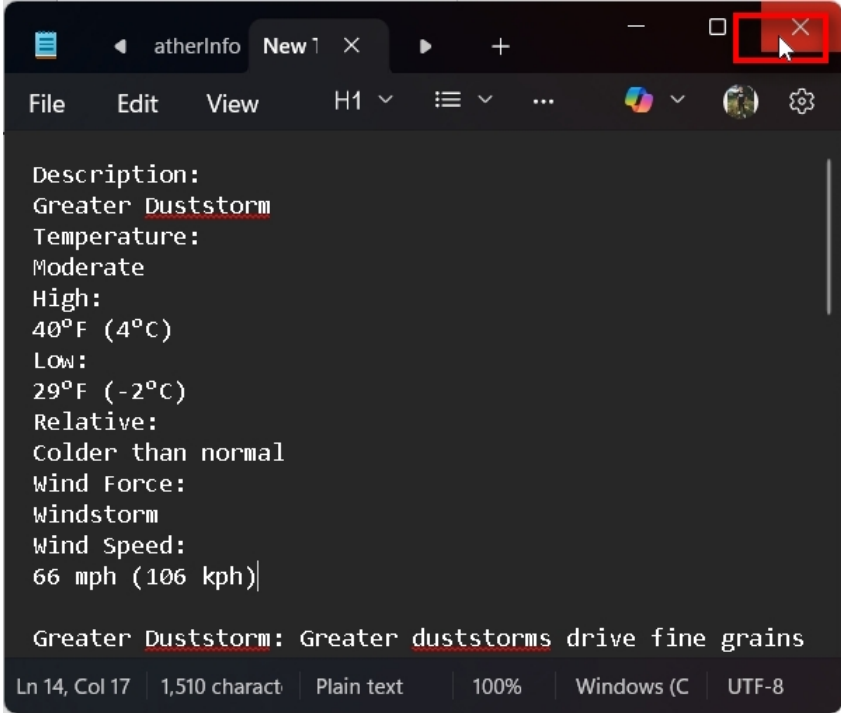
Greater Duststorm: Greater duststorms drive fine grains

7.2 Paste weather Description

	Est. time: 0.3 sec.
	Action: Hotkey

Greater Duststorm: Greater duststorms drive fine grains of sand in windstorm-force winds. The combined effects of dust and wind reduce visibility to zero, making Spot, Search, and Listen checks and all ranged weapon attacks impossible.

Greater duststorms automatically extinguish candles, torches, and similar unprotected flames. They have a 75% chance to extinguish protected flames, such as those of lanterns.

Creatures must succeed on a DC 18 Fort save or be blown away (Small or smaller creatures; knocked prone and rolled 1d4 x 10 feet, taking 1d4 points of nonlethal

7.3 Close the txt File

	Est. time: 3.2 sec.
	Action: Click

8. Close the Edge Browser

	Est. time: 3.9 sec.

8.1

	Est. time: 3.9 sec.
	Action: Click

9. End

	Est. time: 0.0 sec.

II.7 Exceptions Handling

#	Exception	Expected Action
SE-01	Something went wrong when open Web browser	Log Message "Failed to open Browser"
BE-01	Donjon weather generator not appearing as the first link	Refresh browser and type "donjon" after "generate random weather" and click search again
BE-02	No data generated after clicking generate	Refresh browser and fill info again and click generate

III. To-Be Process Description

III.1 In Scope of RPA

The activities **in scope of RPA**, are listed here:

All Actions are in scope of RPA

III.2 Out of Scope of RPA

The activities **Out of scope of RPA**, are listed here:

No actions are out of scope of RPA

IV. Other Observations

IV.1 Systems

System	Usage	Frequency
Edge Browser	Primary use for process	Once / case

IV.2 Reporting

#	Report type	Update frequency	Details	Monitoring Tool to visualise the data
1	Weather Information txt file	Daily	NA	NA