







API for Dummies: Easy File transferring Automation with Python & Power Automate

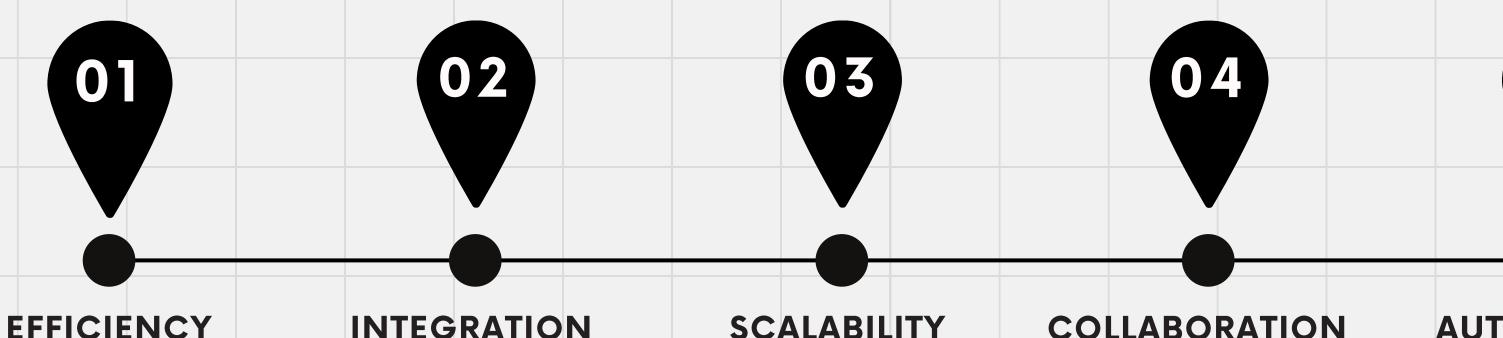


Git Hub repository: https://github.com/tomasdevelopment/Automation-Flows-with-Python-

Why Automate Your Data Workflows?

Imagine a world where Excel evolves from manual tasks tool to a powerful automated system, enabling seamless data integration and freeing your team to focus on strategic decision-making, and data story telling.

Key Benefits of Automating Data Workflows with Python and Power Automate:



Automate repetitive tasks and reclaim valuable time.

Seamlessly connect different tools and platforms building briges between your data that reduce overall fragmentation.

SCALABILITY

Handle large volumes of data effortlessly with scalable solutions. Take decisions with a global perspective.

COLLABORATION

Ensure your team has access to the latest data, anytime, anywhere.

AUTOMATION

Set up dynamic workflows that respond to real-time data events.



Write Your Python Workload Code

```
1
```

```
# Function to save DataFrame to an in-memory Excel file
def save_df_to_buffer(df):
    buffer = BytesIO()
    with pd.ExcelWriter(buffer, engine='xlsxwriter') as writer:
        df.to_excel(writer, index=False)
    buffer.seek(0)
    return buffer

# Function to encode file content to base64
def encode_file_to_base64(buffer):
    file_content = buffer.read()
    return base64.b64encode(file_content).decode('utf-8')
```

2

```
# Create the JSON payload with base64-encoded Excel and file name
json_payload = json.dumps({
    "file_content": encoded_excel,
    "file_name": file_name
})
print("JSON Payload:")
print(json_payload)

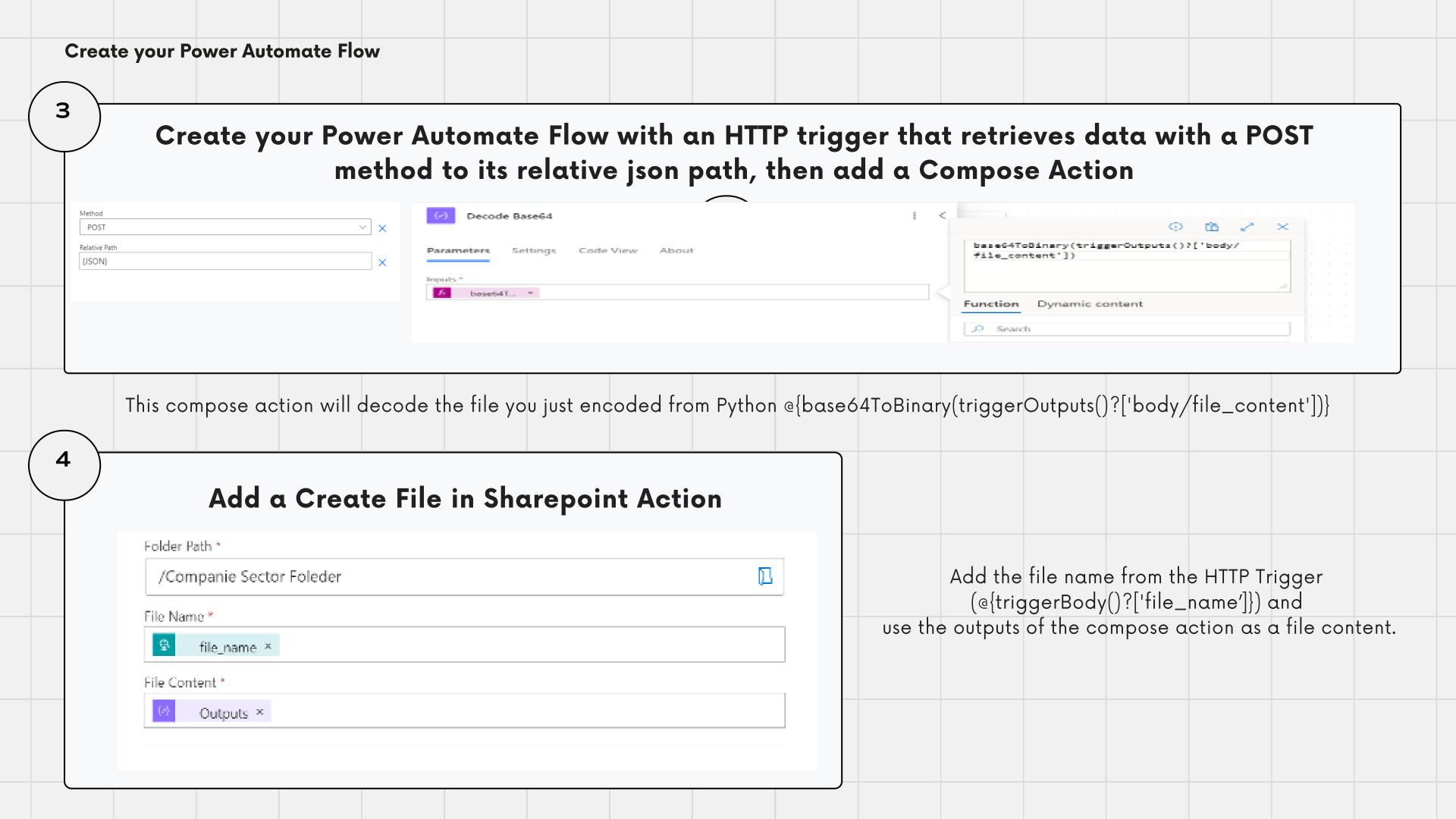
# Define the URL for the automate flow
url = 'https://prod-142.westus.logic.azure.com/workflows/c2fe2123/triggers/manual/paths/invcke/{JSON}7agi-vel

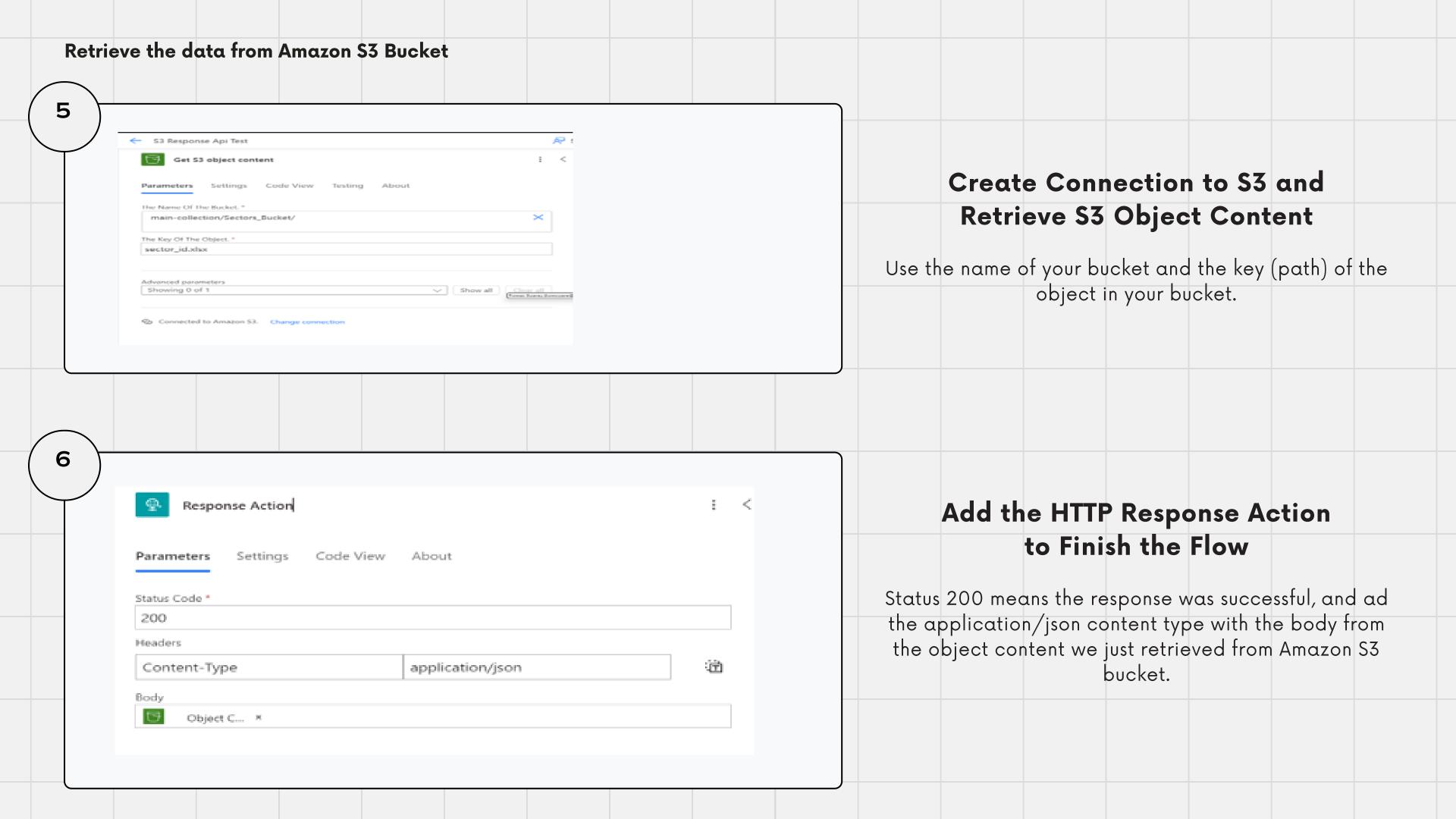
# Headers for the POST request
headers = {
    "Content-Type": 'application/json'
}

# Make the POST request
response = requests.post(url, headers=headers, data=json_payload)
```

Start by saving the data frame you want to save on SharePoint, One Drive Business, other storage service to a buffer and encoding it to base 64. (More efficient than downloading the excel file on your hardisk)

Using requests and Json library write the script that creates your Payload and send a Post response to the flow URL.





RESEARCH PRESENTATION END