Import streamlit as st

Import pandas as pd

Import os

Import io

Import re

Import zipfile

From datetime import datetime

St.set\_page\_config(page\_title=”XML Generator Tool”, layout=”centered”)

St.title(“📄 Report XML Generator”)

St.markdown(“Upload the input and database Excel files to generate XML files in a ZIP archive.”)

# Upload files

Input\_file = st.file\_uploader(“Upload Input Excel File”, type=[“xlsx”])

Db\_file = st.file\_uploader(“Upload Database Excel File”, type=[“xlsx”])

If input\_file and db\_file:

Input\_df = pd.read\_excel(input\_file)

Db\_df = pd.read\_excel(db\_file)

Zip\_buffer = io.BytesIO()

With zipfile.ZipFile(zip\_buffer, “w”, zipfile.ZIP\_DEFLATED) as zipf:

For \_, row in input\_df.iterrows():

Input\_report = str(row[‘reportName’]).strip()

Input\_fund = str(row[‘fundName’]).strip()

Input\_date = row.get(‘date’, None)

# Match report name

Db\_filtered = db\_df[

Db\_df[‘RSReport’].str.contains(input\_report, case=False, na=False) &

Db\_df[‘RSEngine’].str.lower().eq(‘actuate’) &

Db\_df[‘RSStatus’].str.lower().isin([‘cleared’, ‘saved’]) &

Db\_df[‘RSParameters’].str.contains(f”PFondsMulti:\s\*{input\_fund}”, na=False)

].copy()

# Convert RSStart to datetime

Db\_filtered[‘RSDateOnly’] = db\_filtered[‘RSStart’].str.extract(r’(\d+\|\d+\|\d+)’)[0].str.replace(‘|’, ‘/’)

Db\_filtered[‘RSDateOnly’] = pd.to\_datetime(db\_filtered[‘RSDateOnly’], format=’%m/%d/%Y’, errors=’coerce’)

If pd.notna(input\_date):

Input\_dt = pd.to\_datetime(input\_date, errors=’coerce’)

Db\_filtered = db\_filtered[db\_filtered[‘RSDateOnly’] == input\_dt]

Else:

Latest\_date = db\_filtered[‘RSDateOnly’].max()

Db\_filtered = db\_filtered[db\_filtered[‘RSDateOnly’] == latest\_date]

For i, matched\_row in db\_filtered.iterrows():

Report\_path = matched\_row[‘RSReport’]

Xml\_path = “/”.join(report\_path.split(“/”)[:-1])

# Extract parameters into XML lines

Param\_string = matched\_row[‘RSParameters’]

Parameters = [p.strip() for p in param\_string.split(‘;’) if ‘:’ in p]

Xml\_params = “”

For p in parameters:

Key, val = map(str.strip, p.split(‘:’, 1))

Xml\_params += f’ <parameter name=”{key}” value=”{val}”/>\n’

Report\_format = matched\_row[‘RSFormat’]

Xml\_content = f’<reportTestCase name=”” format=”{report\_format}” pfad=”{xml\_path}”>\n{xml\_params}</reportTestCase>’

Date\_str = matched\_row[‘RSDateOnly’].strftime(“%Y-%m-%d”) if pd.notna(matched\_row[‘RSDateOnly’]) else “nodate”

Filename = f”{input\_report}\_{input\_fund}\_{date\_str}\_{i}.xml”

Zipf.writestr(filename, xml\_content)

St.success(“✅ XMLs generated!”)

St.download\_button(

Label=”📦 Download All XMLs as ZIP”,

Data=zip\_buffer.getvalue(),

File\_name=”generated\_xmls.zip”,

Mime=”application/zip”

)