import streamlit as st

import pandas as pd

from lxml import etree

import os

# 📥 Step 1: Upload Excel file

st.title("📄 XML Report Generator (Excel-Based)")

uploaded\_file = st.file\_uploader("Upload the Excel file with report run data", type=["xlsx"])

if uploaded\_file:

try:

df = pd.read\_excel(uploaded\_file, engine='openpyxl')

# 📤 Step 2: User Input

report\_name = st.text\_input("Enter report name (e.g., IWB-CSV):")

num\_files = st.number\_input("Number of recent successful XMLs to generate:", min\_value=1, max\_value=20, value=3)

# 🟢 Step 3: Filter and Generate XMLs

if st.button("Generate XML Files"):

filtered\_df = df[

df["RS\_REPORT"].str.contains(report\_name, case=False, na=False) &

(df["RS\_STAT"].str.lower() == "succeeded") &

(df["RS\_ENGINE"].str.lower() == "actuate")

].sort\_values(by=["RS\_D", "RS\_STA"], ascending=False).head(num\_files)

if filtered\_df.empty:

st.error("❌ No matching successful Actuate runs found.")

else:

os.makedirs("generated\_xmls", exist\_ok=True)

st.success(f"✅ Found {len(filtered\_df)} matching runs.")

for i, row in filtered\_df.iterrows():

root = etree.Element("reportTestCase",

name="",

format=row["RS\_FORM"].lower(),

pfad=row["RS\_REPORT"])

for pair in str(row["RS\_PARAMETERS"]).split(";"):

if ":" not in pair: continue

key, value = map(str.strip, pair.split(":", 1))

param = etree.SubElement(root, "parameter", name=key)

val = etree.SubElement(param, "value")

val.text = value

file\_name = f"report\_{i+1}.xml"

path = os.path.join("generated\_xmls", file\_name)

tree = etree.ElementTree(root)

tree.write(path, pretty\_print=True, xml\_declaration=True, encoding="UTF-8")

with open(path, "rb") as f:

st.download\_button(label=f"⬇️ Download {file\_name}",

data=f,

file\_name=file\_name,

mime="application/xml")

except Exception as e:

st.error(f"Failed to read Excel file: {e}")