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import streamlit as st
from PIL import Image
import pyttsx3

# ----- TEXT TO SPEECH SETUP -----
engine = pyttsx3.init()

def speak(text):
    engine.say(text)
    engine.runAndWait()

# ----- APP CONFIG -----
st.set_page_config(
    page_title="Human Health Hub",
    page_icon="👉",
    layout="centered"
)

# ----- DISCLAIMER -----
st.warning(
    "⚠️ This app is for education & awareness only. "
    "It does NOT replace doctor advice."
)

# ----- TITLE -----
st.title("👉 HUMAN HEALTH HUB")
st.subheader("Easy Health Help • Read & Listen")

# ----- SIDEBAR -----
menu = st.sidebar.radio(
    "Choose Option",
    ["Home", "Health Doubts", "Student Health", "Mental Support", "Camera Check"]
)

# ----- HOME -----
if menu == "Home":
    st.header("🏡 Welcome")

    text = (
        "This app helps students and people understand health easily. "
        "You can read or listen. This app is useful for everyone."
    )

    st.write(text)

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if st.button("🔊 Listen"):
    speak(text)

# ----- HEALTH DOUBTS -----
elif menu == "Health Doubts":
    st.header("👤 Health Doubts")

problem = st.selectbox(
    "Choose problem",
    ["Fever", "Headache", "Cold", "Body Pain", "Eye Problem"]
)
answers = {
    "Fever": "Fever means body temperature is high. Drink water and take rest.",
    "Headache": "Headache can happen due to stress or less sleep.",
    "Cold": "Cold happens due to virus or dust allergy.",
    "Body Pain": "Body pain happens due to tiredness or fever.",
    "Eye Problem": "Eye redness can be due to dust or infection."
}
st.success(answers[problem])

if st.button("🔊 Read Aloud"):
    speak(answers[problem])

st.info("If problem continues, please consult a doctor.")

# ----- STUDENT HEALTH -----
elif menu == "Student Health":
    st.header("🎓 Student Health Help")

tips = (
    "Sleep well. Eat healthy food."
    "Drink enough water. Exercise daily."
)
st.write(tips)

if st.button("🔊 Listen"):
    speak(tips)

# ----- MENTAL SUPPORT -----
elif menu == "Mental Support":

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st.header("🧠 Mental Support")

mood = st.selectbox(
    "How do you feel?", 
    ["Happy", "Sad", "Stress", "Tired"]
)

support = {
    "Happy": "Good. Keep smiling and stay positive.",
    "Sad": "It is okay to feel sad. Talk to someone you trust.",
    "Stress": "Take deep breath. Relax your mind.",
    "Tired": "Rest well. Sleep is important for health."
}

st.success(support[mood])

if st.button("🔊 Listen"):
    speak(support[mood])

# ----- CAMERA CHECK -----
elif menu == "Camera Check":
    st.header("📷 Camera Awareness")

    image = st.camera_input("Take photo (skin or eye only)")

    if image:
        img = Image.open(image)
        st.image(img, caption="Captured Image")

        cam_text = (
            "Redness may mean irritation. "
            "Swelling may mean inflammation. "
            "This is not a medical diagnosis."
        )

        st.info(cam_text)

    if st.button("🔊 Listen"):
        speak(cam_text)

# ----- FOOTER -----
st.markdown("---")
st.caption("Human Health Hub | Single File App | Voice Enabled")

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