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# =====
# INSTALL LIBRARIES
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!pip install gTTS gradio

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# IMPORT LIBRARIES
# =====

import gradio as gr
from gtts import gTTS, lang
import os

# =====
# GET LANGUAGE LIST
# =====

languages_dict = lang.tts_langs()

# Convert dictionary to dropdown format
language_options = [(name, code) for code, name in
languages_dict.items()]

# Accent domain options
accent_options = [
    ("Default (US)", "com"),
    ("India", "co.in"),
    ("United Kingdom", "co.uk"),
    ("Australia", "com.au"),
    ("Canada", "ca")
]

# =====
# TEXT TO SPEECH FUNCTION
# =====

def text_to_speech(text, language, accent):

    if not text.strip():
        return None

    file_name = "speech_output.mp3"

    tts = gTTS(text=text, lang=language, tld=accent)
    tts.save(file_name)

    return file_name

# =====
# GRADIO UI
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# =====
with gr.Blocks() as demo:

    gr.Markdown("# 🎤 Text To Speech Converter")
    gr.Markdown("Convert any text into speech in multiple languages 🎤")

    text_input = gr.Textbox(
        label="Enter Your Text",
        placeholder="Type something here...",
        lines=5
    )

    language_dropdown = gr.Dropdown(
        choices=language_options,
        label="Select Language",
        value="en"
    )

    accent_dropdown = gr.Dropdown(
        choices=accent_options,
        label="Select Accent (Optional)",
        value="com"
    )

    generate_btn = gr.Button("🎤 Generate Speech")

    audio_output = gr.Audio(
        label="Generated Audio",
        type="filepath"
    )

    generate_btn.click(
        text_to_speech,
        inputs=[text_input, language_dropdown, accent_dropdown],
        outputs=audio_output
    )

# =====
# LAUNCH APP
# =====

demo.launch()
```