## MainActivity.java:

Import com.sun.speech.freetts.\*; import org.w3c.dom.\*;

import javax.xml.parsers.\*; import java.io.\*;

public class TextToSpeech {

// FreeTTS voice object private static Voice voice;

private static VoiceManager voiceManager;

public static void main(String[] args) { try {

// Initialize FreeTTS VoiceManager voiceManager = VoiceManager.getInstance();

// Load XML configuration

File configFile = new File("tts\_config.xml");

DocumentBuilderFactory dbFactory = DocumentBuilderFactory.newInstance(); DocumentBuilder dBuilder = dbFactory.newDocumentBuilder();

Document doc = dBuilder.parse(configFile); doc.getDocumentElement().normalize();

// Parse configuration settings

String voiceName = doc.getElementsByTagName("voice").item(0).getTextContent();

int rate = Integer.parseInt(doc.getElementsByTagName("rate").item(0).getTextContent()); float volume =

Float.parseFloat(doc.getElementsByTagName("volume").item(0).getTextContent());

// Set the voice based on the configuration voice = voiceManager.getVoice(voiceName); if (voice != null) {

voice.allocate();

} else {

System.out.println("Voice not found: " + voiceName); return;

}

// Set rate and volume from XML voice.setRate(rate); voice.setVolume(volume);

// Speak a sample text

String textToRead = "Hello, welcome to text-to-speech conversion using Java and FreeTTS!"; speakText(textToRead);

} catch (Exception e) { e.printStackTrace();

}

}

// Method to convert text to speech private static void speakText(String text) {

if (voice != null) { voice.speak(text);

}

}

}