Text-to-Speech Application

Activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="20dp">

    <EditText
        android:id="@+id/inputText"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter text to speak"
        android:padding="10dp"
        android:textSize="18sp" />

    <Button
        android:id="@+id/speakButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Speak"
        android:layout_marginLeft="135dp"
        android:layout_below="@id/inputText"
        android:layout_marginTop="20dp"
        android:padding="10dp" />
</LinearLayout>
```

MainActivity.java

```java
package com.example.texttospeech;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.speech.tts.TextToSpeech;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import java.util.Locale;

public class MainActivity extends AppCompatActivity {
    EditText inputText;
    Button speakButton;
    TextToSpeech textToSpeech;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        inputText = findViewById(R.id.inputText);
        speakButton = findViewById(R.id.speakButton);

        textToSpeech = new TextToSpeech(MainActivity.this, status -> {
            if (status == TextToSpeech.SUCCESS) {
                int langResult = textToSpeech.setLanguage(Locale.US);

                if (langResult == TextToSpeech.LANG_MISSING_DATA || langResult ==
TextToSpeech.LANG_NOT_SUPPORTED) {
                    Toast.makeText(getApplicationContext(), "Language not supported",
Toast.LENGTH_SHORT).show();
                }
            } else {
                Toast.makeText(getApplicationContext(), "TTS Initialization failed!",
Toast.LENGTH_SHORT).show();
            }
```

```java
        });

        speakButton.setOnClickListener(v -> {
            String text = inputText.getText().toString();
            if (!text.isEmpty()) {
                textToSpeech.speak(text, TextToSpeech.QUEUE_FLUSH, null, null);
            } else {
                Toast.makeText(getApplicationContext(), "Please enter text",
Toast.LENGTH_SHORT).show();
            }
        });
    }

    @Override
    protected void onDestroy() {
        if (textToSpeech != null) {
            textToSpeech.stop();
            textToSpeech.shutdown();
        }
        super.onDestroy();
    }
}
```