Project Overview

Documentation of My Task

Task 1: . Real-Time Conversational Practice with **IELTS Speaking Test Simulation.**

Completed

Summary

Key Information

Name & ID Feature

Upon launch of the application, the user is required to input their **Name & ID**, this is a numerical identification to save the results in a PDF file.

example: 24_Dominic Peck_IELTS_20250126_130834

Speech Mode Vs Non-Speech Mode

Speech Mode: If the user has clicked the check-box to enable speech mode, they are able to do either **Practice Mode** / **Test Mode** *using their voice*, the Listen button will be enabled for them and they are able to use it multiple times to ensure satisfactory results with their recorded speech before proceeding.

Non-Speech Mode: If the user has unticked the check-box to disable speech mode, they are able to do either **Practice Mode** / **Test Mode** *without using their voice*, the Listen button will be disabled for them and they are able to use the text-box to input their response, users are free to edit their response as long as they are on the question before proceeding.

Practice Mode Description

Practice Mode functionality allows users to input their response to questions and gain feedback upon proceeding to the next question. Feedback is given immediately and displays issues, solutions and suggestions along with a grading score.

Once the test is complete, the information, results and grading is stored within a PDF file.

Test Mode Description

Test Mod functionality allows users to input their response to questions and proceed to the next question. Feedback is not given immediately as it is to simulate a test, users will only recieve the message that they can proceed to the next question upon clicking “Next Question”.

Once the test is complete, the information, results and grading is stored within a PDF file.

Problems Recorded with Project

Key Problems and Solutions found	Multiple logic errors were discovered during the creation of my project, multiple setbacks that included *creative differences*; trying to find what iteration of my IELTS Speaking Test Simulation that I wanted to incorporate. Another Issue occured with the integration of both a *Speech Mode* & *Non-Speech Mode.* Isuses occured trying to find suitable APIs to use. --- **Solutions Found with Project** The use of ChatGPT and my own knowledged helped me to overcome the logic errors within my task, was able to achieve satisfactory results with my latest iteration of the IELTS Speaking Test Simulation. Latest iteration provided ease-of-use. Fully integrated Speech Mode & Non-Speech Mode with a check-box and an indicator to provide user accessability for individuals that did not wish to opt in
Systems Explained	**Scoring System** The scoring system is based on the number of "matches" or issues identified. The number of matches corresponds to different IELTS Band scores, where: • **Band 9 (Excellent)**: If there are no issues (0 matches), the score is considered "Excellent." • **Band 8 (Very Good)**: If the number of issues is between 1 and 3, the score is "Very Good." • **Band 7 (Good)**: For 4 to 6 issues, the score is considered "Good." • **Band 6 (Competent)**: If there are between 7 and 9 issues, the score is "Competent." • **Band 5 or below (Needs Improvement)**: If there are 10 or more issues, the score is considered below Band 5, labeled as "Needs Improvement." **LLMs used** ○ **Speech-to-Text (SpeechRecognition)** handled by theSpeechRecognition library. It will capture the spoken input and convert it into text. for accurate transcription. ○ **LanguageTool**, via lanugage_tool_python. This match the transcription against predefined responses or expected answers to generate a score.
Support Needed	**If help is required, please contact at:** Dominic Peck +27 82 374 2524 **email:** dominicpeck03@gmail.com