**TEXT TO SPEECH CONVERTOR**

**TEST CASE DOCUMENT**

**CSE 325-SOFTWARE ENGINEERING PROJECT**

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**SLOT: B1**

**BUSINESS REQUIREMENT DOCUMENT**

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| **BR#** | **MODULE NAME** | **APPLICABLE ROLES** | **DESCRIPTION** |
| B1 | TEXT-TO-SPEECH | USER  TEXT TO SPEECH ENGINE | **USER:** A user inputs a text in the text box. The text should be in English.  **TEXT TO SPEECH ENGINE:** The TTS engine converts the input text into speech and plays it to the user. |
| B2 | SAVING AS MP3 | USER | **USER:** The user inputs the file name that he wants for the converted speech and the speech is saved as a mp3 file in the user's device. |
| B3 | SPEECH-TO-TEXT | USER  SPEECH TO TEXT ENGINE | **USER:** A user speaks some sentences on click of a button.  **SPEECH TO TEXT ENGINE:** The STT engine converts the spoken sentence into written text and displays it to the user. |

**TECHNICAL REQUIREMENT DOCUMENT**

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| **T1** | The user should be connected to the internet. |
| **T2** | The text should be in English. |
| **T3** | The file name should be provided. |
| **T4** | There should be free space on the user's device. |
| **T5** | Speaker volume should be turned up. |

**TEST CASE DOCUMENT**

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| **TEST CASE #** | **BR#** | **TR#** | **TEST CASE** | **TEST STEPS** | **TEST DATA** | **EXPECTED RESULT** |
| 1 | B1 | T2,T5 | Using Only Text To Speech | 1.Open Application  2. Enter The Text  3.Press Convert Button | Hi! This is text to speech. | Result as expected. |
| 2 | B2 | T3,T4 | Saving The Speech On User's Device | 1. Enter File Name  2. Press Convert Button  3.Look If The File Is Saved In The Device | File name: file1 | Saved as file1.wav on user's device. |
| 3 | B3 | T1 | Testing Speech To Text | 1. Press Speech Button  2. Speak The Sentence Which You Want To Convert To Text  3. Text Is Displayed In A Text Box. | Spoke Hi this is speech to text. | The text appeared on the text box. |
| 4 | B1,B2 | T2,T3,T4,T5 | Input Text To Convert To Speech And Also File Name | 1.Open Application  2. Enter The Text  3. Enter File Name  4.Press Convert Button  5.Look If The File Is Saved In The Device | Entered "Hi! how are you? " in the input box and gave the file name as "hello". | The input text is played out loud and the same speech is saved as a "hello.wav" in the user's device. |

**REQUIREMENT TRACIBILITY MATRIX**

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| **BUSINESS REQUIREMENT #** | **TECHNICAL REQUIREMENT #** | **TEST CASE #** |
| B1 | T2,T5 | 1 |
| B2 | T3,T4 | 2 |
| B3 | T1 | 3 |
| B1,B2 | T2,T3,T4,T5 | 4 |