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| **Functional Requirements** | | |
| **Functional Requirement Number** | Description | Analysis |
| **FR I** | **Input Validation** | The app should be able to transcribe exactly what it captured from the user (“to give what you say is what you get”)  **Analysis.**  The system should focus to user voice.  System will recognize Yoruba Language. |
| **FR II** | **Transcribing** | The app should be able to transcribe the speech to Yoruba language to suit native speakers, non-native speakers, non-native speakers with knowledge of Yoruba, and non-native speakers without knowledge of Yoruba.  **Analysis**  Words spoken by the user after pressing microphone symbol or start button.  Phases  1.Give permission for microphone  2.Voice recognition  3.VoiceTranscribtion |
| **FR III** | **Timing** | The time in which the words will take to be transcribed into text should be minimal, 0.2seconds.  **Analysis**  It should be very fast to encourage the users to use again. |
| **FR IV** | **Feedback** | The app should be able to give feedback to the user if it cannot recognize a word.  **Analysis**   * If the user voice is not clear enough the system should be able to notify the user about it. * The application should be able to notify the user to start recording when user clicks the start button. |

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| **Non-functional Requirements** | | |
| **Ref** | Function | Description |
| **NFR I** | **Security** | To prevent invasions, the system must be secure. |
| **NFR II** | **Reliability** | The application should achieve a high accuracy rate for speech-to-text transcription. |
| **NFR III** | **Efficiency** | The application must be able to recognize spoken Yoruba words to written Yoruba words in real time. |
| **NFR IV** | **Usability** | The application should have a friendly user interface and will give the user clear instructions on how to use the features. |
| **NFR V** | **Compatibility** | Because the application is web-based, users should be able to access it from any internet browser, device, and operating system, including Linux, Windows, iOS, and Android. |
| **NFR VI** | **Regulatory** | The government's regularity policy should be followed by the system. |
| **NFR VII** | **Strength** | Errors or inaccurate inputs that were not anticipated must be included into the system. |
| **NFR VIII** | **Maintainability** | While maintaining the system, the system should be adaptable to new requirements. |