Trentaudio

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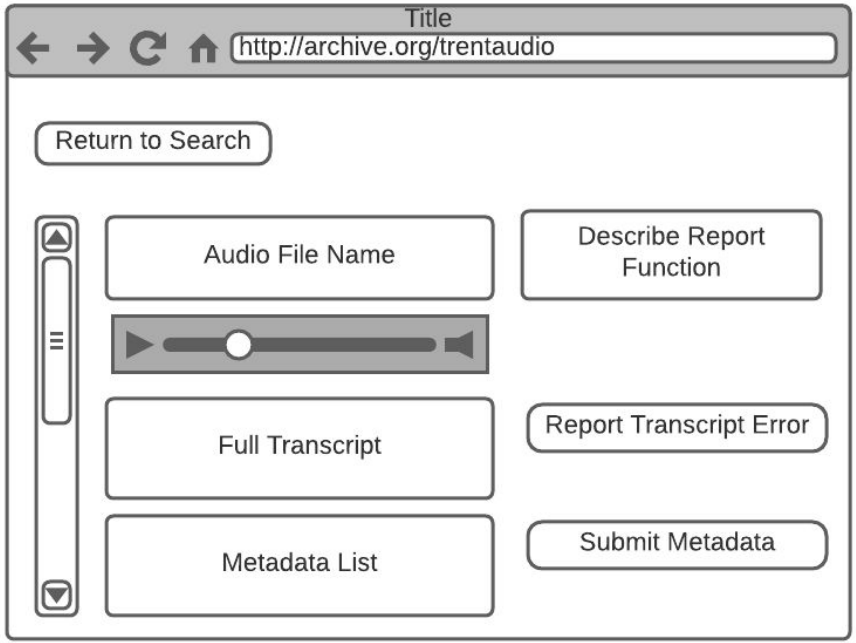
Problem

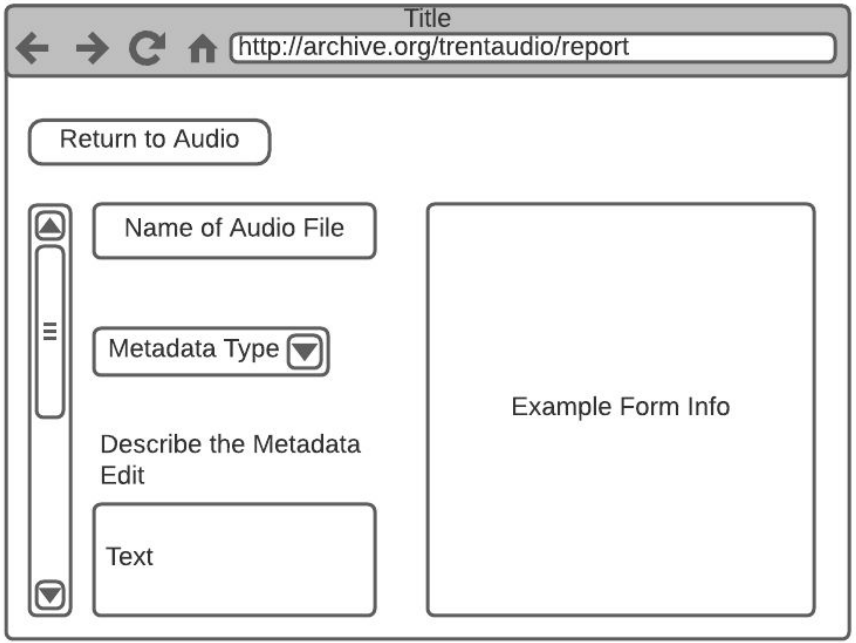
- In the Trentonian Library online, audio files are stored inefficiently, making it difficult for users to search and sort through the files to find those that are best suited for their needs.
- No transcripts are listed for each audio file, which is unhelpful for those who may not be able to hear the audio.
- Additionally, the user interface is overly complicated and confusing for a casual user.
- These problems with the library must be addressed to improve the user's experience.

Concept

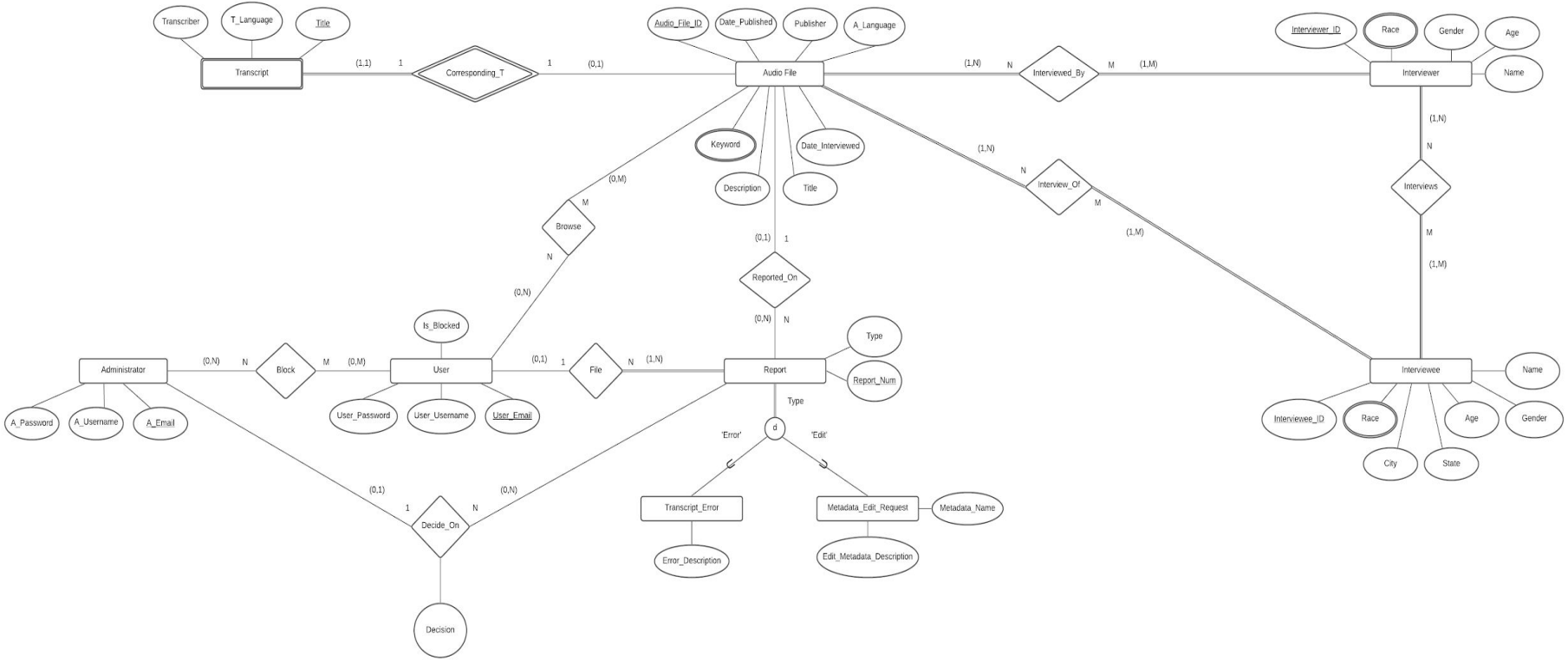
- Creating a clearer user interface that allows for easier searching and sorting.
- Creating a database system that handles audio-based data and links the audio to their corresponding transcripts.
- Allow logged-in users to submit possible metadata for files (such as topics addressed in the file, interviewer name, etc.) or issues/errors found with the transcript.
- Allow non-logged-in users to view transcripts and listen to audio files (presented on the same page).
- Allow an administrator to edit metadata, block users from submitting reports for the files, and add/delete/edit files.

User Interface





Database Schema



Web Technologies

- Database Queries: **PostgreSQL**
- Programming Language Interfaces**:**
  - **Python**: Connect to PostgreSQL database
    - Possible Drivers
      - Psycopg2: A popular driver for Python/PostgreSQL frameworks
      - pg8000: used by Web2Py
      - PyGreSQL: 1st Postgres driver for Python
  - **Javascript**: Constructing the User Interface