enter virtual environment: source venv/bin/activate. out: deactivate

**1. Backend Setup**

* Set up a Flask backend to handle POST requests and store survey responses in Google Firestore.
* Configured Firestore with a service account and created an endpoint to process and validate survey data.
* Stored responses in Firestore under the SurveyResponses collection, using "anonymous" as a default user\_id if none is provided.

**2. Frontend Integration**

* Modified JavaScript to send slider data to the backend when users click "Continue" or "Finish."
* Ensured the "Continue" button loads the next audio file and resets the sliders, and the "Finish" button sends the final data and redirects to the "Thanks" page.

**3. Firestore Data Structure**

* Collection: SurveyResponses
* Documents: One per user\_id (e.g., "anonymous").
* Each document stores multiple audio files with slider labels and responses.

**4. Export Data to CSV**

* Created a Python script to fetch data from Firestore and export it to a CSV file.
* Each row in the CSV represents one audio file, including user\_id, audio\_no, and up to 5 slider label-response pairs.

**5. Workflow**

1. **Frontend**: Collects user responses and sends them to the backend.
2. **Backend**: Processes and stores responses in Firestore.
3. **Export**: Generates a CSV file for analysis.