Dear Deepgram Engineering Candidate,

In preparation for your upcoming interview, we would like you to prepare the following coding project.

Build a simple API server to handle user audio projects. Your server should provide endpoints that allow a user to perform the following actions:

1. POST raw audio data and store it.

```
Eg:$ curl -X POST --data-binary @myfile.wav
http://localhost/post
```

GET a list of stored files, GET the content of stored files, and GET metadata of stored files, such as the duration of the audio. The GET endpoint(s) should accept a query parameter that allows the user to filter results. Results should be returned as JSON.

```
Eg: $ curl http://localhost/download?name=myfile.wav
Eg: $ curl http://localhost/list?maxduration=300
Eg: $ curl http://localhost/info?name=myfile.wav
```

When you arrive for your interview, we will ask you to **present your code** and **elaborate on some of the design decisions** you have made, some of the things you would have done differently if you had more time, some things you learned about libraries you used, ... Additionally, we will ask you to build upon the code you've worked on to add functionality.

You are encouraged to use the language(s) and frameworks with which you are most comfortable and familiar. Additionally, as a candidate for a full-stack and/or front-end engineering role, we ask that you **integrate a front-end framework of your choice** to make it relatively simple to add user interface elements in the working session. You do not need to create an elaborate user interface; however, be prepared to add simple user interface features as part of the working session.

Your code should minimally be able to handle the GET and POST requests described above. However, because we want this to be a point of departure for a slightly bigger project you will do during your working session, we recommend you spend some time considering the following:

- 1. How to build a simple browser UI to interface with your API?
- 2. How do you want to store audio data? For the purposes of this interview, just keeping them in memory is fine, but how else would you want to keep and serve audio data?
- 3. How to handle user authentication and data security?
- 4. How to handle data integrity? How to make sure that users can't break your API by uploading roque text data?

Thanks for your time and your earnest effort on this small project. We look forward to seeing what you've done.