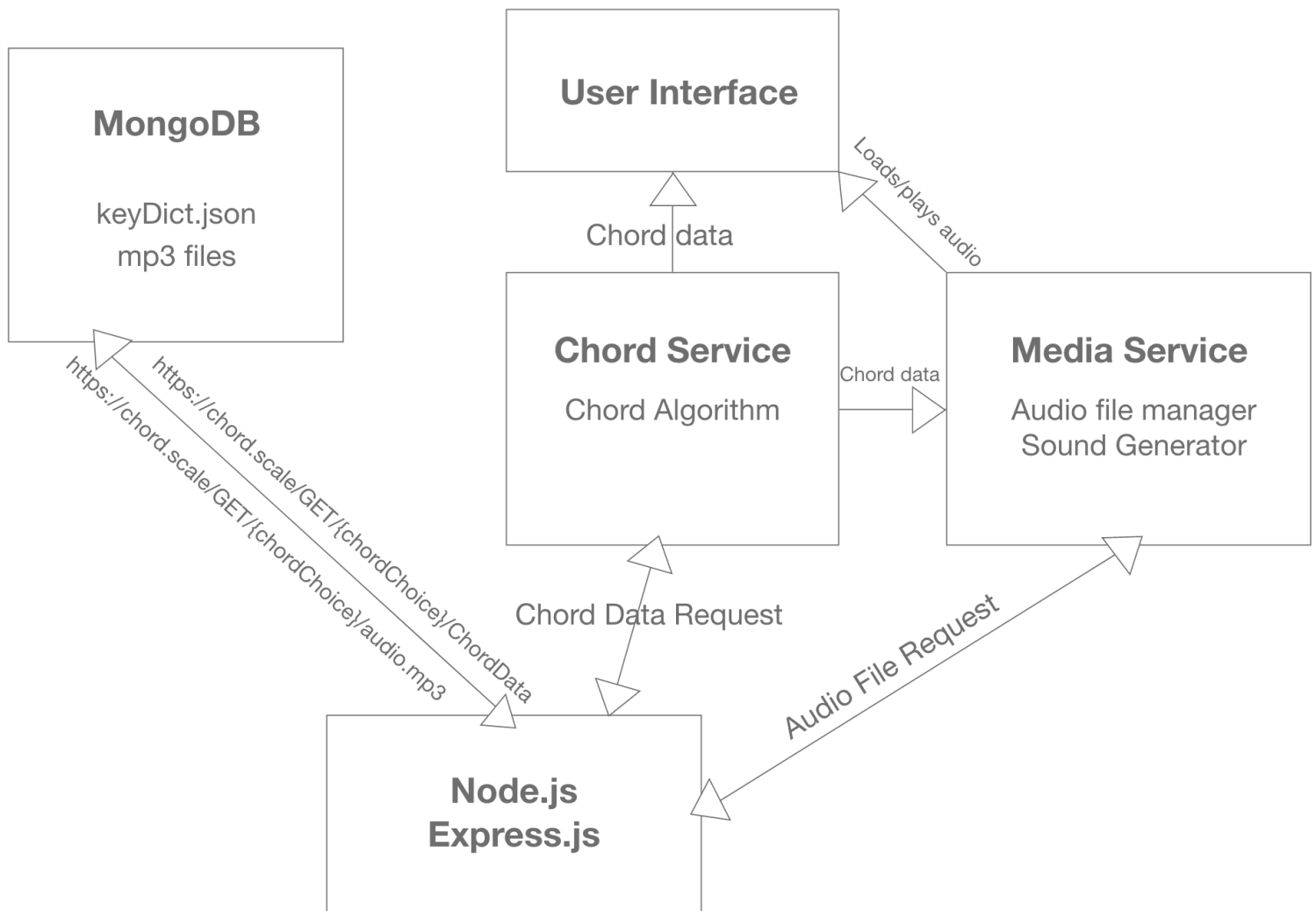


## Service Layers

The ChordScale app will utilize two service layers to provide users with the proper data and audio pulled from MongoDB: the Chord Service layer and the Media Service layer. Both of these layers will use Node.js and Express.js in order to facilitate proper communication between the app and the database:



The Chord Service will send a GET request to MongoDB to gather the proper data from the JSON Dictionary containing all chord data - a **200 Success** message for successful connection to the database, a **500 Error** message if the app is not able to connect:

### Successful GET Request:

The screenshot shows a REST client interface with the following details:

- URL:** `{{url}}/chordScale.com/ChordData/{{key}} {{value}}?C=Major`
- Method:** GET
- Params:** Headers, Body
- Query Params:** A table with columns KEY, VALUE, and DESCRIPTION. The first row has a checked checkbox, 'C' in KEY, 'Major' in VALUE, and 'Description' in DESCRIPTION.
- Status Code:** 200
- Body:** Pretty, Raw, Preview, Text. The response is: `1 Successfully Loaded Chord Data`

### GET Request Error:

The screenshot shows a REST client interface with the following details:

- URL:** `{{url}}/chordScale.com/ChordData/{{key}} {{value}}?C=Major`
- Method:** GET
- Params:** Headers, Body
- Query Params:** A table with columns KEY, VALUE, and DESCRIPTION. The first row has a checked checkbox, 'C' in KEY, 'Major' in VALUE, and 'Description' in DESCRIPTION.
- Status Code:** 500
- Body:** Pretty, Raw, Preview, Text. The response is: `1 Could Not Load Files`

This data will be processed and displayed to the user, as well as generate the proper path-strings for the Media Service layer to acquire the necessary audio files per the user's request. The generated path-strings will be used by the Media Service in the GET requests to provide the user the proper audio to play. Similarly to the Chord Data request, a **200 Success** message will indicate successful connection with the database and a **500 Error** message to indicate failure to connect.