

## Moveo Coding Task - JaMoveo

The people at Moveo have a fun tradition where they gather in a rehearsal room from time to time and play songs together. Each person knows how to play a different instrument, usually including drums, guitars, bass, saxophone, keyboards, and vocals.

We are looking to take it to the next level and use technology to improve our performances. Help us build a web application that allows each of us to log in from our phones and register as a user, specifying which instrument we play. There will be an admin user who can create a rehearsal session, and during the session, everyone will be able to connect to the rehearsal. The admin user will have the ability to control what is displayed to everyone. The admin will be able to search for a song they want in English or Hebrew, then proceed to a song selection screen from the returned results. Once a song is selected, everyone connected to the rehearsal will see the chords/lyrics of the song (all instruments need to see the chords except for the singers, who only need the lyrics).

Help Moveo band create the JaMoveo web app with the following pages and features:

### Signup Page:

- Implement registration (username, password, and instrument).

### Login Page:

- Implement authentication (username and password).

### Main Page - Player:

- The page should contain the title "Waiting for next song" as long as the admin has not selected any song.
- Once the admin picks a song, the screen should move to the Live page.

### Main Page - Admin:

- The page should contain the title "Search any song..." and below it, a text input field to enter the search query (should find by contain)

- Once a search is performed, move to the Results page.

### **Results Page - Admin:**

- The page should contain a list of search results with relevant data (song name, artist, and image if available). Once a song is selected, the screen should move to the Live page for the admin as well.

### **Live Page:**

- Show title with the song name and the author.
- Singers should see only the lyrics for the song.
- Other players should see both lyrics and chords for the song.
- Add a floating toggle button on the bottom to start/stop automatic slow scrolling down.
- Ensure a large font size and high contrast between background and text color, as there is a lot of smoke in the room.
- Only the admin can see the "Quit" button. Once clicked, all players, including the admin, move back to the main page.

### **General Technical Guidelines:**

- This task involves client-server and database components; you can use any framework/language you want.
- Database entities - users with roles. Users should be able to create their own accounts through the Signup page. The admin should have a different URL to register to identify them as an admin user.
- No need to handle complex cases with more than one admin.
- The task requires socket implementation.
- Use the attached data as a hard-coded song database (JSON files with song examples, chords, and lyrics for each song).
- Add cool styling by your imagination.
- Add clear comments to the code where needed.
- Deploy the project and provide the URL and instructions on how to create a regular user and an admin user.

### **Bonus:**

- Instead of using the hard-coded data, get the chords and lyrics data by crawling a website, for example, Tab4U.

**Good luck!**

### **Examples:**

Live Page appearance example for guitar player (chords with lyrics):

G D/F# Em  
There's nothing you can do that can't be done  
G D/F# Em  
Theres nothing you can sing that can't be sung  
D7/A G D/F#  
Nothing you can say but you can learn to  
D7/A  
play the game  
D7/A D7  
It's easy

Live Page example for singer (only lyrics):

There's nothing you can do that can't be done  
Theres nothing you can sing that can't be sung  
Nothing you can say but you can learn to  
play the game  
It's easy