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MERN platform for music

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So I found out that there is a pretty decent need for a website which helps u play with the seven notes and store the combination you like. I want to build one with the MERN stack. I don't know much about MERN, but as I am already learning, tell me what all I will need to build such a platform with good ui/ux. And it should have some crazy features, like if the user uploads a music or a song, it should generate a sequence of sa re ga ma pa gha ni sa's, which helps the user to sing??

This is actually a *perfect* MERN-stack project idea.

And don't worry that you don't know much yet — the skills you will learn **while building THIS** are the EXACT same skills any professional full stack dev uses.

What you will need (real, practical list)

M – MongoDB

- store user accounts
- store saved raga combinations

E – Express

- build REST APIs
- routes like
 - `/api/save-sequence`
 - `/api/get-my-sequences`
 - `/api/analyze-audio-upload`

R – React

- main UI/UX
- interactive raga display grid
- real-time playback
- waveform display (visual)

N – Node.js

- backend logic

extra tech you'll likely need

Need	Tech / Library
UI/UX	Tailwind CSS OR shadcn/ui (if you want super modern look fast)
music playback	Tone.js (very popular JS music synth lib)
audio upload parsing	Web Audio API (browser)
pitch detection	Meyda or crepe.js
file uploads backend	multer (express middleware)
login/auth	Clerk/Auth0 OR just JWT

Tone.js + Meyda combo = will give you the ability to detect pitch + generate tones from code.

the “crazy feature” you said — music to Sargam mapping

This is doable.

Basic pipeline:

1. user uploads audio `.mp3` or `.wav`

2. frontend → send file to backend

3. backend uses pitch-detection (FFT, or pretrained model: `crepe.js`)

4. pitch → nearest Indian note frequency mapping table

example:

- Sa – 240 Hz (example scale)
- Re – 270 Hz
- Ga – 300 Hz
- ...

r

```
Sa Re Ga Ma Pa Ma Ga Re Sa
```

Copy code

This is your "sequence generator".

UI concept that will look premium

- 3 major pages:

1) Saptak Playground

grid of 7 swaras

- sa re ga ma pa dha ni (buttons)
- click to add into timeline
- spacebar = play the loop
- Tone.js makes it sound like bansuri / harmonium / tanpura chords

2) Audio to Sargam converter

- upload file
- show waveform + extracted pitch
- auto generate the singing sequence

3) Library

- saved patterns
- share link / download midi maybe

roadmap (your learning track)

Phase 1 (7 days):

- React (components, state, hooks)
- Tailwind
- make UI of the Playground (no audio yet)

Phase 2 (7-10 days):

- Tone.js → play notes on button click

Phase 3 (10-20 days):

- Mongo + Express
- store sequences
- login

Phase 4 (20+ days):

- audio uploads
- pitch detection

and YES

you only need like 35-60 minutes/day
as you said.

Tone.js

If you want next:

I can give you **exact file structure** template for MERN for this project + which folder to put what in.

Do you want that?

like:

```
bash

/client
/server
```

Copy code

with inside structure ready to start coding

Should I draft the project folder for you?

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+ Ask anything

🔍 🗨️ 🎤 🔊

