

Practice Pal technical task

To help us assess your suitability for our development role, we've designed a small technical task to give us a feel for how you work under non-interview conditions. We appreciate this may involve more time than other interview processes, but we also hope it will be more enjoyable and a fairer way for you to demonstrate your skills.

You are welcome to use online (and other) resources to complete the task, but we expect you to largely write your own code and may ask you to talk us through it in your interview.

The brief:

We'd like you to build a simple metronome as a web app. Crucially, the metronome should have a 'tap tempo' feature, allowing the user to tap a button at a certain rate in order to set the tempo without needing to enter a precise BPM (beats per minute).

If you're unsure of the basic functionality of a metronome, simply google "metronome" to see Google's example.

Any other functionality is optional, and we leave the styling entirely down to you.

A note on tech:

- As long as you're building a React app, you're free to use whatever structure or additional tooling you're comfortable with. Feel free to use create-react-app to quickly get a basic web app set up and ready for development.
Note: we'd prefer you to avoid Typescript for this task.
- Feel free to use libraries within reason: using a basic sound library would be reasonable, using a pre-built metronome would not!
- You can send over the finished task as a repository, or any other means which will enable us to access all the source code easily. If you have a way to host the running app online somewhere, that would be helpful but is by no means required.
- For avoidance of doubt: all code you write is your own, and will not be used by us for any purpose other than evaluating this task!

If you encounter any serious blocker to completing this task (technical or otherwise), please do let us know. It's possible there are difficulties with the task which we haven't foreseen, and we want to see how you work under normal conditions, so please do get in touch if necessary!

Best of luck!

James King, Practice Pal