

# M<sub>μ</sub>tor

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# Original Proposal

- Music tutor website
- Inspired by LenMus and Codecademy
- Music lessons & practice, all in Javascript
- "Practice" means interactive sections and minigames
- Saved progress by user account

# Missing Features

- Most lessons
- All interactive practice (didn't even have time to start that)
- Saved progress

# Bugs

- Music won't play perfectly in rhythm
- Music plays all notes at once after the first playing until refresh
- Staff notation might not show up until the link to it is clicked twice, or not show up at all due to a completely inexplicable and unhelpful VexFlow error message
- All are bugs with the libraries used for music notation and MIDI playback with Javascript, not caused by us and not present in their own examples
- Countless other bugs that we've already fixed
- pythonanywhere version can't even playback

# The Story

- 2 very complex libraries that are the most popular (and possibly only) options for music notation and MIDI playback in Javascript: VexFlow & MIDI.js
- Both libraries seemed solid and had countless great, working examples
- Almost no documentation, and no decent documentation at all
- Had to read all of the VexFlow and MIDI.js code to learn how to do almost anything
- Spent the entire quarter trying to fix these bugs
- Technically a 3rd library, VexTab, which is an addon to VexFlow that makes it a little easier to deal with
- VexTab at least worked great and had great documentation

Now, for the demo!

# Questions?