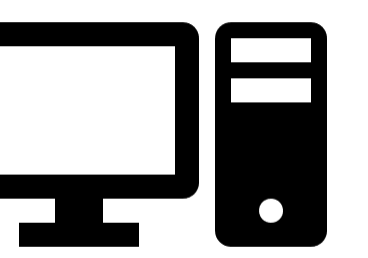


The Music Assistant

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Summary

- The Music Assistant is a tool that assists students in practicing music for their choir outside of class time. The Music Assistant also helps instructors by identifying where the students need guidance.

Motivation

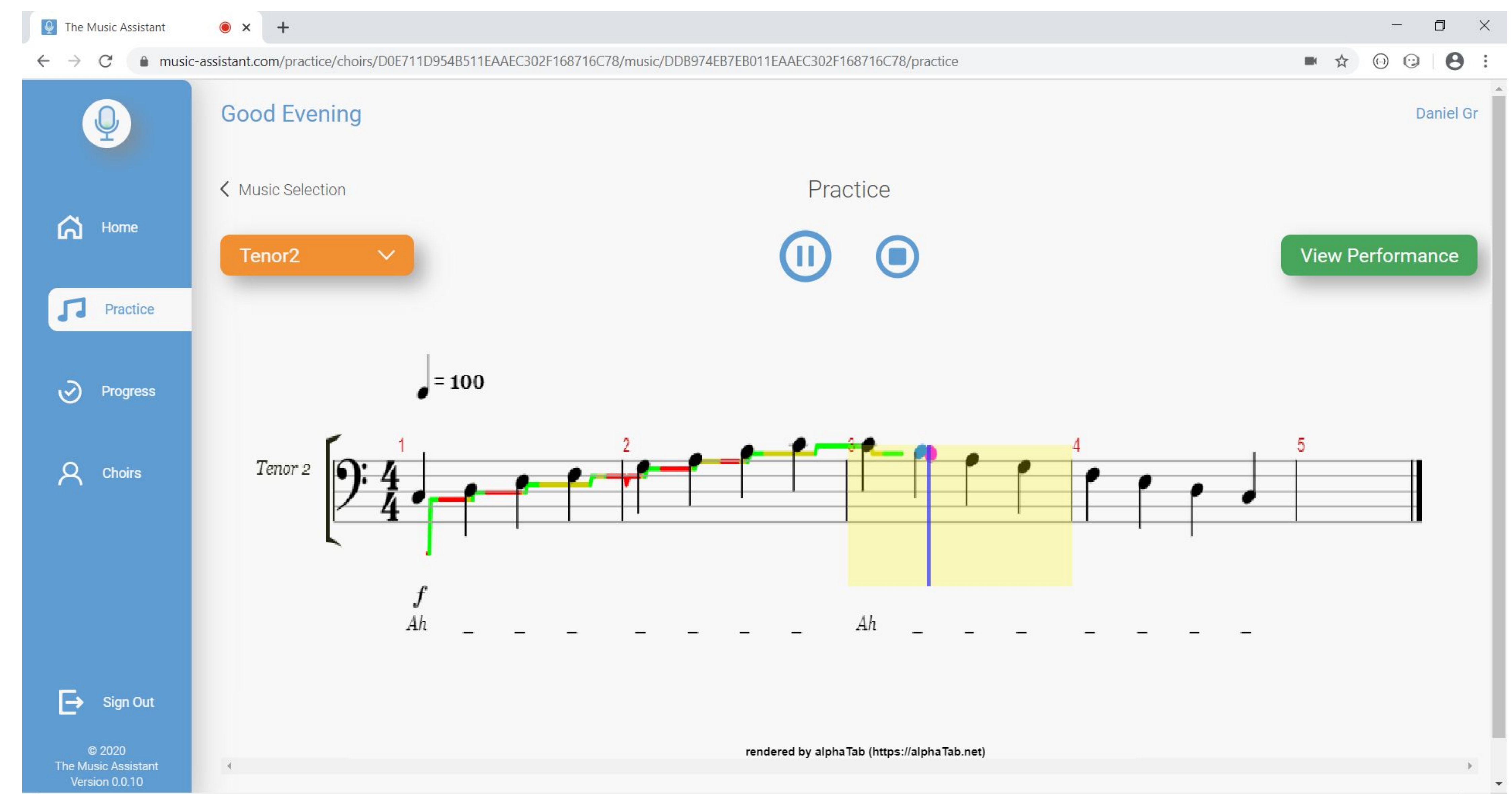
- Choir students need to practice their performances outside of class, but it can prove difficult to know whether or not they are improving

Accomplishments

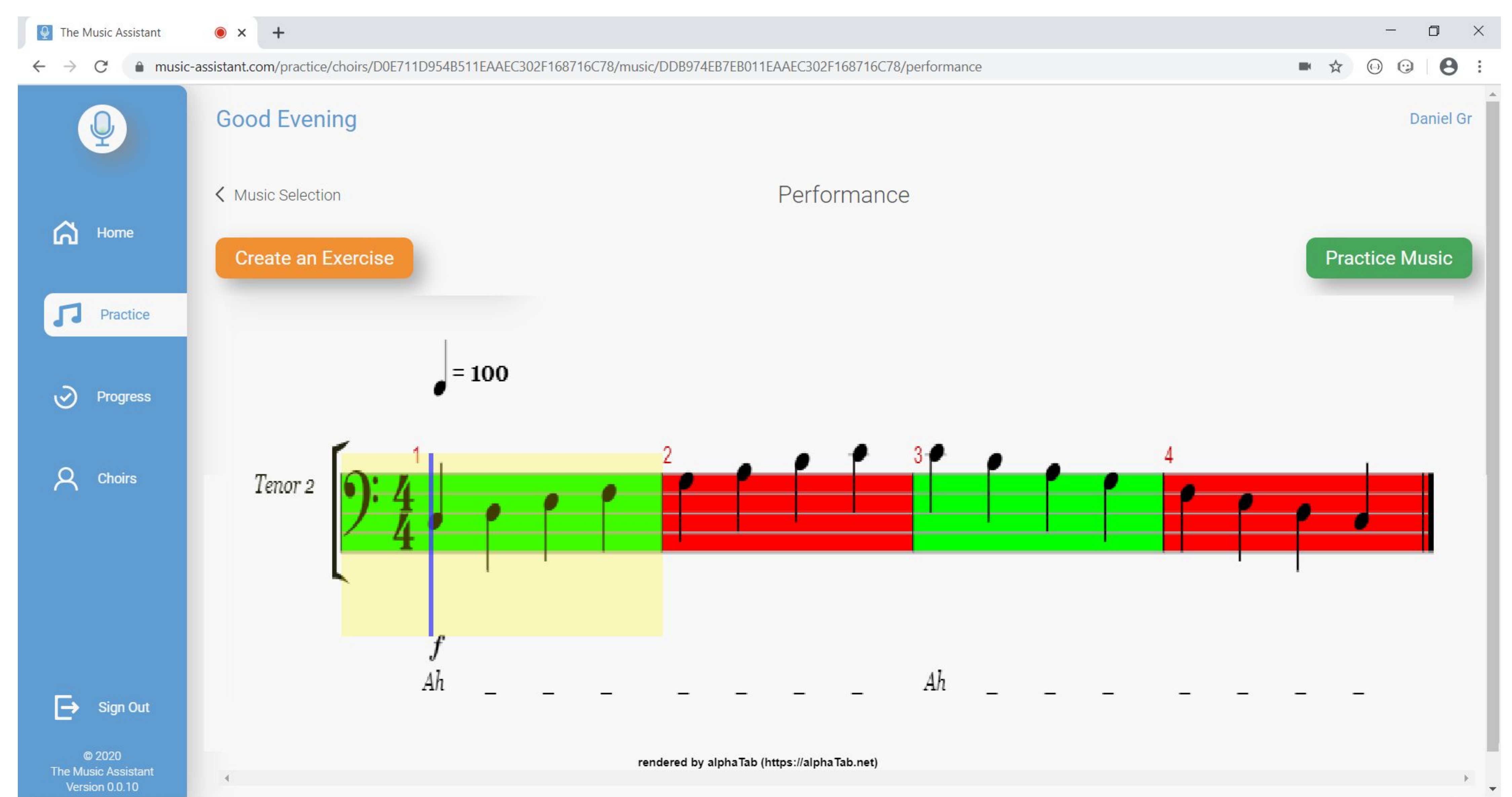
- Created a complete experience that includes a website, server, and database
- Provide real-time feedback to students as they sing along with sheet music
- Present the user with a performance progress summary for each piece of sheet music

Future Improvements

- Detect similarities in sheet music to better identify problematic patterns for students
- An OCR that can digitally encode sheet music for a choir
- Create statistical summaries for students and instructors that show where improvements can be made



Real-Time Feedback



Progress Summary



NORTHROP GRUMMAN

Engineering & Science
Student Design Showcase
at Florida Institute of Technology

