

Speech Tracker

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Description

Speech Tracker is a speech therapy app for toddlers that allows parents or teachers to test their toddler with different phonetic speech examples and keep track of their progress over time on each different sound.



Features

- Radio button input interface
- Visual tracking of progress over time
- Login/Register feature for user-specific data



Planning - User Stories

- This app makes it easier for parents to track their child's progress, making it so that parents can use that feedback of data to see which areas of speech need more focus than others.
- I decided to make this app in order to track my youngest daughter's speech. Her speech development was delayed by ear infections, but at this age it is difficult to help her practice. The colorful pictures help keep her interest as I test her progress.



Planning - Database

- I created a table to keep track of user data for login username and password in order to keep user information separate
- I also created a table holding all of the words to be used for the speech testing along with their pictures and phonetic category
- Lastly, I create a table to track the specific entries for total number correct as well as put a time stamp on each for the day it was created



Technology Stack

- Language: Java with some JavaScript
- Spring
- Thymeleaf
- MySQL
- D3.js
- Heroku & ClearDB



Demo



What I Learned

- D3.js for bar charts
- Inlining JavaScript through Thymeleaf
- Creating unique login and user specific information
- Building mobile-responsive content
- Deploying to the cloud using Heroku



What's Next

- Creating weighted tests based on previous results
- Work on visual design
- Allow users to add/update content
- Add data visualization to home page for overall results

