

## Auditory Training App

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### PROBLEM

Adults with hearing loss who have received a hearing aid or cochlear implant need auditory practice to improve their hearing abilities. These individuals with hearing loss have limited interactive resources for auditory training. Currently, an adult with hearing loss can enhance their auditory skills through audio tapes; however, continuous auditory training and interactive exercises is needed for to successfully enhance the skill. The Auditory Training App will provide users with fun and interactive listening activities and lessons to improve the user's skills.

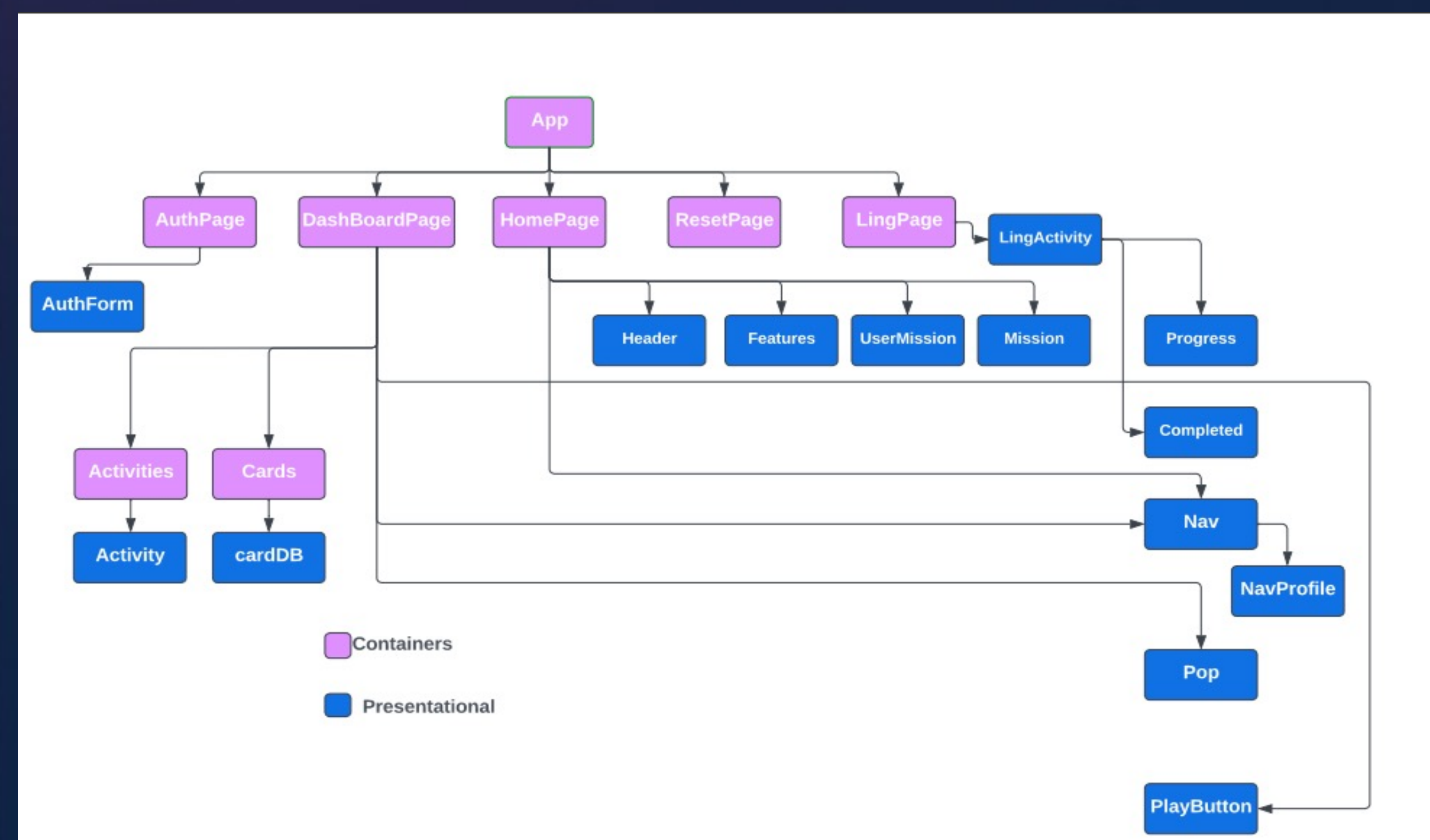
### CURRENT SYSTEM

This semester is the first version for the development of the Auditory Training App. The web application was started from scratch and created using React. The overall goal of the Auditory Training App is to provide users with fun listening auditory training using activities and lessons to improve the user's hearing abilities. Other than completing auditory training lessons, the app allows users to keep track of their progress, sign into their account, and have different listening settings for the activities.

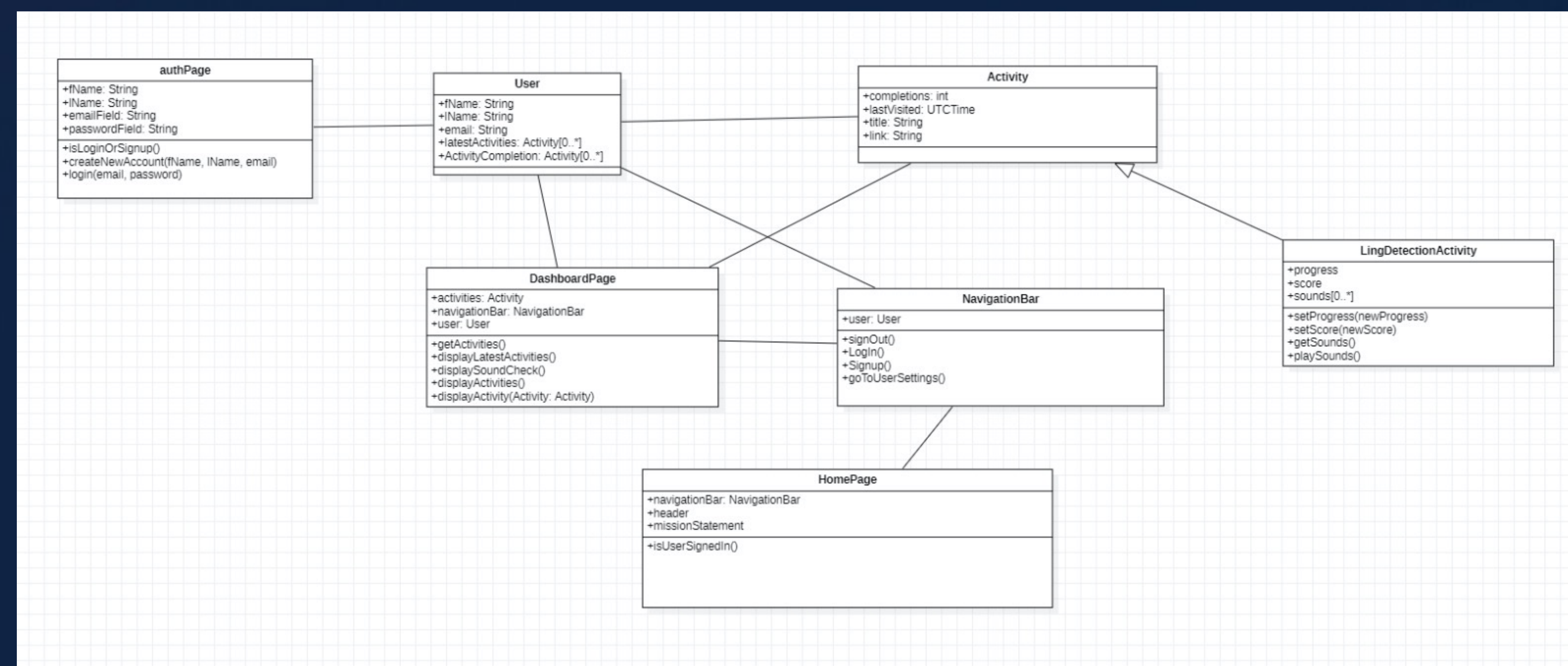
### REQUIREMENTS

- The program will be created in React as a web application to allow to be cross-platform.
- The web application has an appealing and simple user interface for users to enjoy.
- Users can create an account and log into their account to keep track of their personalized progress.
- The Auditory Training App allows for its users to track its progress and export its data in a graph form.
- The user can choose different listening settings for the lessons.

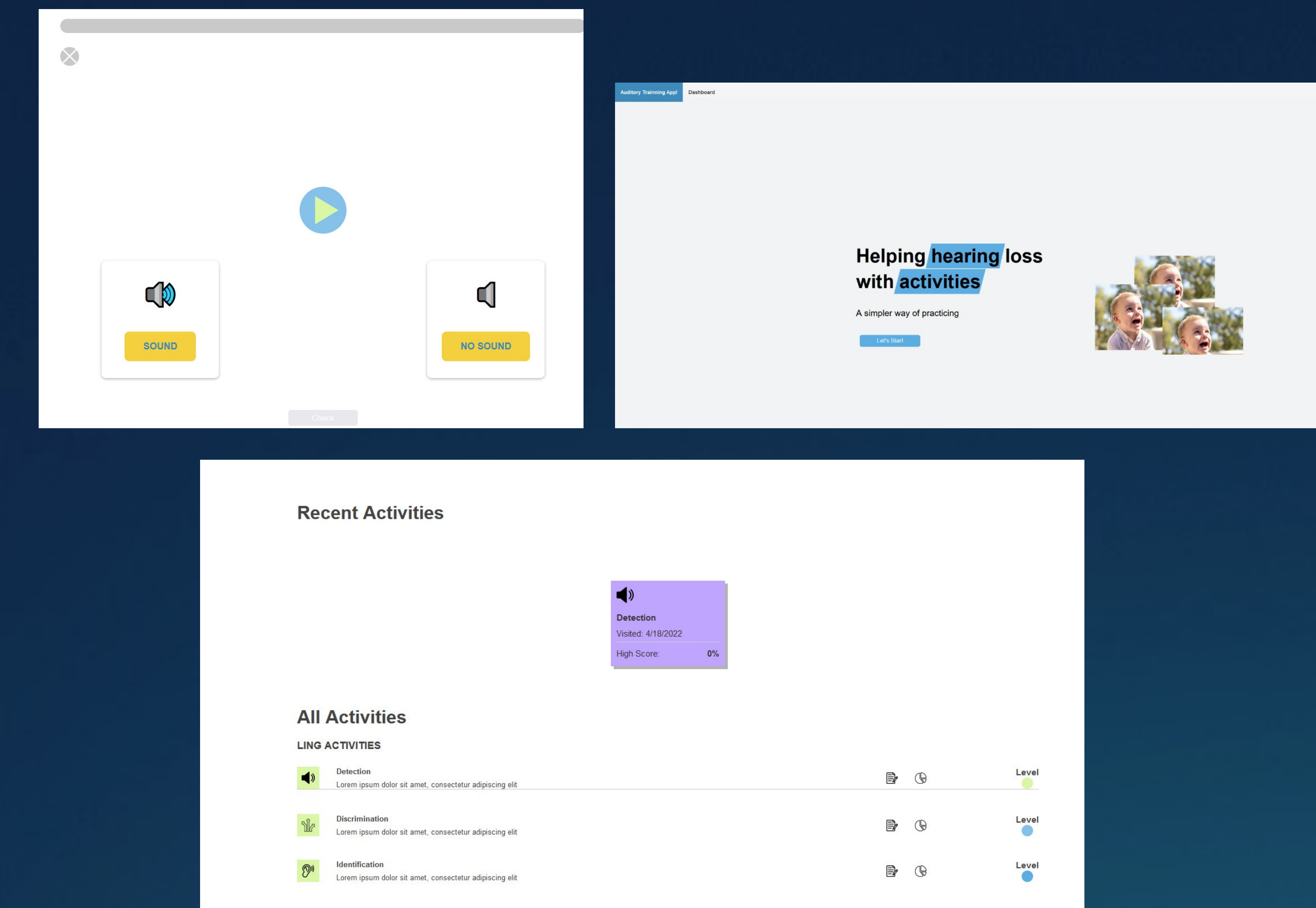
### SYSTEM DESIGN



### OBJECT DESIGN



### SCREENSHOTS



### VERIFICATION

Testing for the Auditory Training App was mainly achieved individually. It was a requirement for our team to test the application before merging it to GitHub to avoid collision and error; before a team member can merge their work to the repository, another team member must approve the pull request.

### IMPLEMENTATION



### SUMMARY

During the first semester of the Auditory Training App our group chose React as the foundation of the web application since it can be used cross-platform on different devices. Our group was able to develop the structure and application from scratch and set the foundation for other semesters and versions to develop it further.

### ACKNOWLEDGEMENT

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