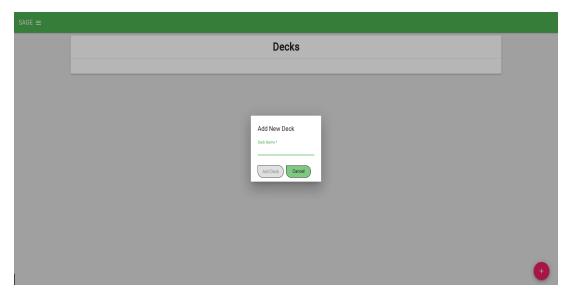
SAGE Vocabulary Game

SAGE is:

- A web-based vocabulary game
- Designed to be used in a classroom setting
- Able to be used on mobile devices
- Instructors can easily create decks and cards for students to use
- OAuth is used for teachers to identify themselves



SAGE's Home Page



Deck Creation Page

Tools and Platforms Used

Angular - Front-end tool used to build all of the web pages

• MongoDB - Backend to store cards and decks

• Spark - Hosts the server

IntelliJ IDEA - IDE used for the entirety of the project
 Karma - Testing tool used in the agile process

Gradle - Automated build tool used to manage the stack
 OAuth - Google's authentication API to identify teachers
 Agile approach - The style our team used to build this project

• Zenhub - Used to manage our issues and create a burndown chart

• Github - Repository system

Agile Approach

- Group stand up meetings
- Always working together where we could easily talk
- Iterations usually lasted two weeks
- Showcases with customer at the end of each iteration
- Shopping with customer at the beginning of each iteration to decide what the next best steps are
- Good testing environment with Karma and e2e testing
- Everyone worked together on everything, no matter what they excelled at
- Burndown charts to make sure we were on track
- Issues made with story points to properly manage how long things would take

Example of my Contribution

Here is a short example of what I helped do on the front-end web development, first giving an excerpt from the HTML, and then from the Typescript. This is how we implemented editing deck names using Angular forms.

```
changeMode() {
    if (this.editMode == false) {
        this.editMode = true;
    } else {
        this.editMode = false;
    }
}
Makes a call to the server to update the Deck with the new title of
locally as well so that the page does not need to be refreshed. Cha
saveEdit() {
    this.deckService.updateName(this.newDeckTitle, this.deck._id);
    this.deck.name = this.newDeckTitle;
    this.changeMode();
}
// Opens the delete deck dialog, which handles the service request
deleteDeck() {
    this.openDeleteDeckDialog();
cancelEdit() {
    this.changeMode();
```