# Introduction

Our goal is to create an Android application to aid students in studying for spelling bees and spelling tests. Students will be able to create word lists to study from and practice those words using their voice or the Android keyboard. In addition, our application will enable users to share lists. This allows teachers and spelling bee organizers to be able to release official word lists for students to study from.

## Goals

* Allow users to create custom word lists with audio recordings and/or definitions.
* Allow students to spell words with voice or keyboard.
* Integrate Merriam-Webster words, definitions, origins, and audio recordings into the application.
* Allow users to share word lists created using Merriam-Webster words.
* Gamification of the application to make studying more fun for grade-school children.

## Users

* Children studying for spelling bees or spelling tests
* Family members who want to help children study, but do not want to spend hours quizzing them
* Teachers who are looking for fun ways students can improve their spelling skills on their own
* Spelling Bee organizers

## Definitions

* TBD

# Summary of Requirements

## Functional Requirements

* A user shall be able to create a list by typing, pasting, and searching for desired words.
* A user shall be able to create a list by importing words from a text file.
* A user shall be able to save lists for future use.
* A user shall be able to share lists with other users.
* A user shall be able to hear the word, origin, definition, and sentence.
* A user shall be able to spell a word by speaking or typing.

## Non-Functional Requirements

* The system must be able to use speech recognition to recognize individual letters.
* The system must be able to speak in a non-robotic way.
* The system must be able to work without draining the battery.
* The system must be able to get data in minimal time.