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28 September 2016

Project Part 1: Project Initial Documentation

Purpose of the Project

We discovered that there was an app in which you could write a Chinese character and it would be translated into English, which seems like a very useful application. Since Chinese is the most spoken language in the world, with over one billion speakers, we wanted to create a similar application that would allow a user to learn Chinese through a game.

The user is presented with an English word and the Chinese phonetic spelling of the Chinese word. The user must draw the correct character using the correct stroke order. After submitting their character, the app will score the character based on how accurately it was drawn and the user can receive awards as they continue playing. The database will allow us to store information from the game, such as the character images, the score, and the user information. As the user continues playing the game, the app will continually request information from and update the database.

List of Potential Users

The following users will use this app to begin learning Chinese or to improve their language skills.
- LDS Missionaries who serve in Chinese speaking missions
- Students in language learning classes
    - Elementary school students in Chinese immersion programs
    - High school or college students taking Chinese courses
- Travelers abroad in Chinese speaking countries, or those who are planning on traveling
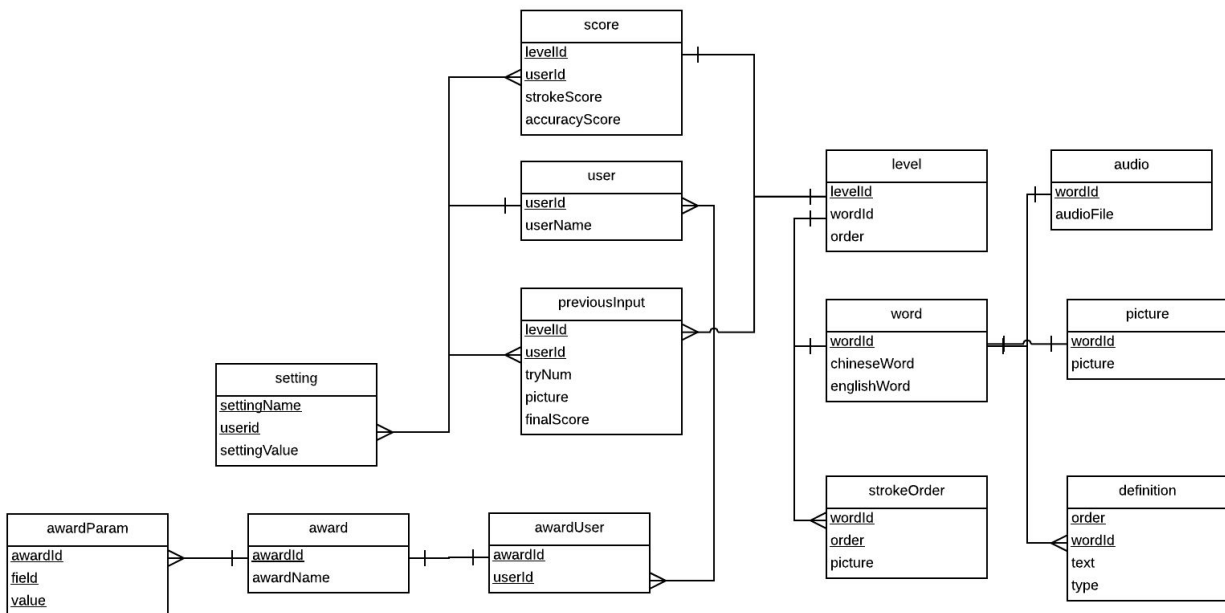- Casual learners who are learning Chinese out of curiosity in their free time

Facts

- Simplified Chinese characters are currently the only available Chinese characters
- Each word will have an associated definition and picture of the character
- The user can choose to listen to the word spoken aloud to help them
- Levels are unlocked when the user reaches certain scores
- Each user can receive multiple awards
- Stroke order will increase drawing accuracy

Stakeholders

- Direct
  - Chinese Language Learner - uses the app to learn Chinese
  - App developers - will maintain the app
- Indirect
  - Anyone who communicates with a user of the app - will be able to read and understand any communication from the user

Database Schema

E-R Diagram