SELT Final Project

Group 6 - Word Power

Kaiwen Huang, Avanti Deshmukh, Karan Pahlani, Hema Ramachandran, Linh Pham
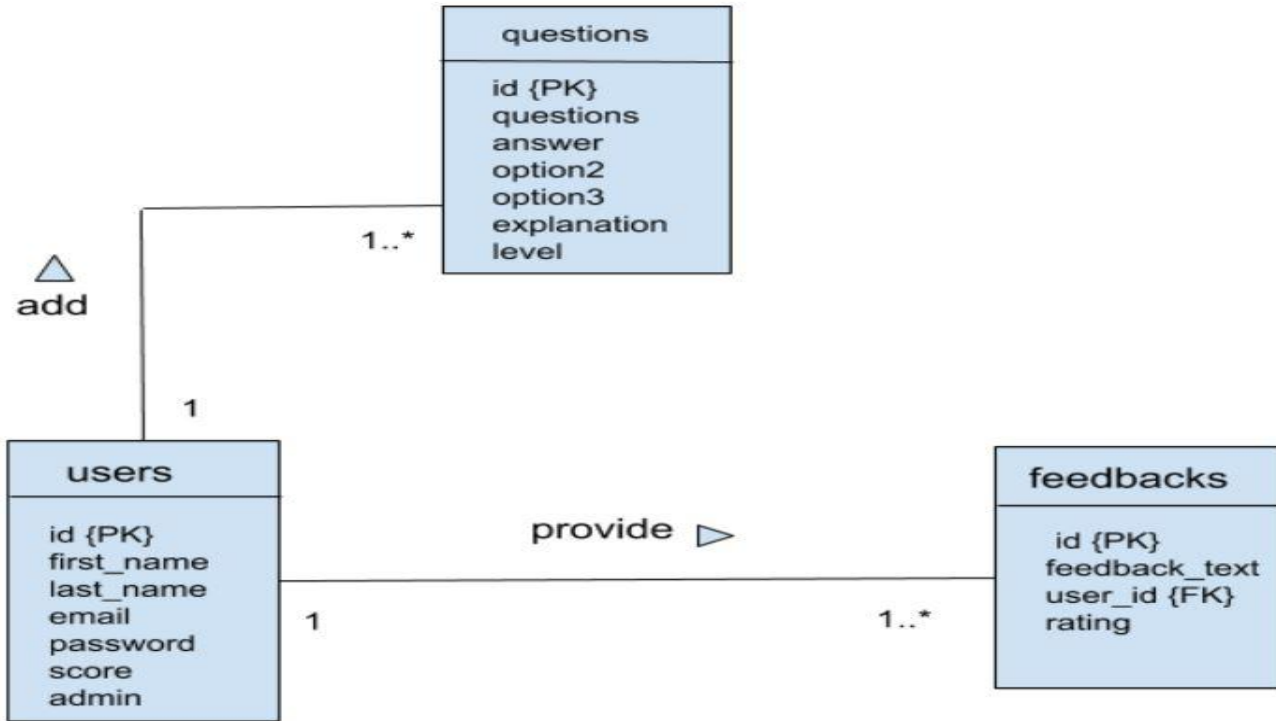
Purpose and Motivation

- Help people learn vocabulary.

- Useful resource for students who are preparing for standardized tests like SAT/GRE.

- Making the learning process interesting and fun by adding features like scores, leaderboard rankings and difficulty levels.

Minimum Viable Features

- User Authentication.

- Questions with different difficulty levels.

- Able to play the questions and keep score.

- Leaderboard rankings.

- Ability to select difficulty level and skip questions.

- Administrator Functionalities.

Database Schema

questions

id {PK}
questions
answer
option2
option3
explanation
level

add

1

1..*

users

id {PK}
first_name
last_name
email
password
score
admin

1

provide ▷

1..*

feedbacks

id {PK}
feedback_text
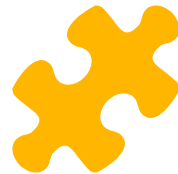user_id {FK}
rating

Technologies and Gem used

- Devise for user authentication

- Rails Admin for admin site administration

- Levenshtein for computing string similarity

- Shoulda Matcher for testing model relationships and validation

- Ajax for creating dynamic client view

Pivotal Tracker

- **Sprint 1: (Feature: 4, V = 8):** Basic functional vocabulary quiz game

- **Sprint 2 (Feature: 8, V = 12):** Signup and login functionality

- **Sprint 3 (Feature: 10, V = 23):** Leaderboard, admin, feedback, scores and levels

- Backlog - Activity log table

Testing

Cucumber

Used for acceptance testing

Rspec

Used for unit testing

81
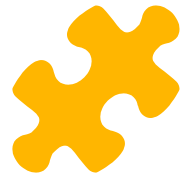
Number of Cucumber Scenario

44

Number of RSpec Test

96.34%

Co Coverage

What we learned?

What went right?

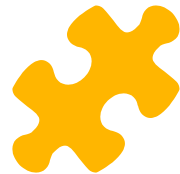**Use of collaboration tools**

GitHub Code review, WhatsApp, Pivotal Tracker

Smooth Development Process

We finished most of the features we planned

Good teamwork

We worked on different part of the stack every sprint and colab with one another

What went wrong?

Transaction Table

For logging creation,updation or deletion from database

Jasmine testing

For the Javascript/AJAX code we had

Demo time!

Next to Implement features

- Adding vocabulary word-lists that are used specific purposes like word from a famous novel/poem, words for GRE test, SAT test.
- Users should be able to play these specific lists based on choice.
- Adding mastery levels of every word for a specific user that keeps track of how well does the user know that word.
- Adding option to create custom word-lists from existing words in database.

Thanks!

Any questions?