Gurmukhi Word Test Overview and Schema

Simran K Soin

Conceptual Overview

- Drop-down menu of word lists that the user can be tested on
- Displays Gurmukhi word
- Provides three multiple choice options for the definition
- Flashes answer upon clicking "Submit"
- When user is completed, they can click "Done" and see a progress summary

Intended Audience and Purpose

- The intended audience is the students of 10+ years at Khalsa Schools (Sunday Schools) in Gurudwaras (Sikh religious temples) such as the New England Sikh Study Circle.
- The teachers at many Gurudwaras often have difficulties finding testing applications that allow words to be written in Gurmukhi (ਗੁਰਮੁਖੀ) and this would provide a more convenient way to evaluate students.

Program Overview

- 3 app routes:
 - Vocabulary List (for studying)
 - Definition Test (for testing)
 - Progress Summary
- Vocabulary list divided into different collections of 10 words each based on alphabetical order
 - User can select which set of words to be tested on

Data Stored Per Word

- Word
 - Phonetic English transliteration (transliteration)
 - Quote using the word from Holy Scripture (quote_ggs)
 - Actual Definition (definition)

Data Schema

```
word_list: { "word": "ਹਉਮੈ",

"transliteration" : "haumai",

"quote_ggs" : "ਹਉਮੈ ਝਗੜਾ ਪਾਇਓਨੁ ਝਗੜੈ ਜਗੁ ਮੁਇਆ ॥"

"definition": "ego/self-centered" }}
```

User Data Stored

- There is a collection made per user
- Collection stores:
 - username/uuid
 - session start time
 - data for each list per word

UserData Schema

```
"username/uuid": "John Doe",
"session_start": _____,
"list1":
     {"word1":
           {"num_correct": 7,
           "num_attempts":9}
"list2": { }
```

/list1 Outline of the App session["current_list"] = "list1" Asks question from words in list1 /login /homepage /list2 Checks if document Asks user which list they already exists for user in want to be guizzed on db session["current_list"] = "list2" and redirects accordingly Asks question from words in list2 if so, do nothing if not, create document /progress No words to display sets the session["uuid"] and progress of yet session["session_start"]

Outline of the App (cont'd)

