

**Tables:** Keys are bolded

:“[pointers](#)” are foreign keys

### Users Table

- **user name**
- name
- password
- user-language [pointer](#)
  - *how do we allow multiple? are we doing set cap number of languages?*

<b>User name</b>	name	password	<a href="#">User-language pointer</a>
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### Language Table

- **user-language key**
- literal name of language
- alphabet string/list
- syllable formation [pointer](#)

<b>User-language key</b>	Literal name of language	Alphabet string/list	<a href="#">Syllable formation pointer</a>
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### Syllable Formation Table

- **syllable formation key** (same as [pointer](#))
- syllable template
- specific digit
- possible characters

<b>Syllable formation key</b>	Syllable template	Specific digit	Possible characters
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### Dictionary Table

- **user-language key** (from [pointer](#))
- **word itself** (fantasy word—second part of composite key)
- part of speech
- translation (user's language)
- additional conjugations [pointer](#) (potentially each word in conjugation exists in dictionary table)

User-language key	Word itself	Part of speech	translation	<a href="#">Additional conjugations pointer</a>
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### Conjugation Table (needs work)

- **conjugation key** (from [pointer](#))
- (**user-language key** (from [pointer](#)) perhaps )
- part of speech
- tense
- [Conjugation forms could be the same or different in each part:]
  - 1<sup>st</sup> Person singular
  - 2<sup>nd</sup> Person singular
  - 3<sup>rd</sup> Person singular
  - 1<sup>st</sup> Person plural
  - 2<sup>nd</sup> Person plural
  - 3<sup>rd</sup> Person plural

Conj. Key	User-lang. key	Part of speech	tense	1st single	2nd single	3rd single	1st plural	2nd plural	3rd plural
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## ***App Functions***

Alphabet: sounds/letters

- gives user default list, based on Spanish, English, or other language
- allows user to change list by removing letters or adding additional letters, possibly re-ordering
- saves

Syllable formation (will explain more later)

- gives user default list, based on Spanish, English, or other language
- allows user to add, remove, or rearrange consonants (c) and vowels (v)
- allows user to add or remove letters/sounds to/from each consonant and vowel

Closed class words (e.g. articles, prepositions, conjunctions)

- see word creation

Most used words (e.g. to be, to do)

- see word creation

Suffixes/pre-fixes

- see word creation

Open class words (e.g. nouns, verbs, adjectives)

- see word creation

Word Creation

- (presents corresponding information based on sub-section)
- allows user to enter new words using
  - o fantasy word field

*§ do we want to include phrases at this point? if so, we may want a table for phrase -> individual words, or we can simply include them in dictionary*

- o corresponding translation field (or “translated meaning”)
- o part of speech field (perhaps from set options)
- o allows option for conjugation

*§ which takes to a new page?*

Dictionary -- browse existing words

Translate – translate a word or phrase entered by user