**Phonetic Alphabet Trainer**

Possible Names: Alpha 2 Zulu

Goal: Teach the phonetic alphabet

\*Sections

1. Split up alphabet into bite sized learning sections 5 sections, flashcard style?

- A to E, Alpha to Echo, WORDS: bead, bad, cab, bed, ace

- F to J, Foxtrot to Juliet, WORDS: jig, fig, hi, if; big, head, face, badge, each, hide, bag,

- K to O, Kilo to Oscar, WORDS: monk, ok, no; bold, hijacked, child, flock, jedi, mock

- P to T, Papa to Tengo, WORDS: sport, trampoline, implants, soap, sprinkle, mistaken, imposter

- U to Z, Uniform to Zulu, WORDS: quartz, vaporize, view, zap, axe, quiz, size, wax

2. Words

body, lawyer, swallow, deserve, boy, climb, bride, honest, liver, ward, conclusion, owe, sensation

cheap, office, trunk, ghost, refer, pill, embox, make, residence, combination, relax

brain, heavy, evaluate, mayor, anger, iron, silence, deter

3. Sentences - Pangrams

The big brown fox jumps over the lazy dog.

Pack my box with five dozen liquor jugs.

Farmer jack realized that big yellow quilts were expensive.

(Expansion Pack) Add Ons Later:

4. Numbers 0 to 9

5. License plate reading

6. Coordinates

7. Radio Communication Calls

8. Address

9. Phone Numbers

- App features

Start with individual letters, flash card style.

Add pronounciation, voiceover with speaker icon

Practice spelling words with phonetic alphabet, can click on letter to hear missed letters

Microphone for speaking the letters

Add phonetic numbers?

Include a table reference for full thing.

Possibly link to videos? Practice word: Zavora

Enter your own text (name or sentence.)

Practice sentences at end, license plates

**- App Stack & Structure**

Front End Design & Function:

HTML, CSS, JavaScript, Bootstrap, Bootswatch for Alt colors, Font Awesome

Photoshop for custom icons/ranks or find a font

Single Page Application Desired:

Will there be an issue using multiple pages? ~~Yes, reload required every time the menu is used.~~

Include other parts instead of one big HTML file – ~~PHP, or iframe or JS string literal.~~ ~~Should use React.~~

Use JS modules export and import with JS string literals to dynamically create/destroy or reveal/hide “other pages”

Use javascript to manage state using state or module pattern

Back End:

Could just use local storage instead in browser? ~~– not the best – no login, wouldn’t save user progress except on one device.~~

~~NodeJS for server runtime &~~ JavaScript language

JavaScript Fetch API ~~or Express for requests~~

JSON file for alphabet and word list

~~Login System:~~

~~Passport JS or other Login with google.~~

~~how will I be able to reference or make user entries into my database to keep track of progress?~~

~~Database:~~

~~Stores user info including progress so that can continue from any machine. Requires internet connection.~~

~~Keep practice words here? Or entire lessons? Make so that it is updateable by admin.~~

~~Should try MongoDB. May use MySQL.~~

Database updating and accessing:

Build own REST API to post, update, and delete user progress - JSON file on server

~~Hosting:~~

~~Digital Ocean droplet to host. Needs purchased. This will allow unrestricted linux server that can install NodeJS, MongoDB, etc without issue.~~

~~Could use Heroku, but it is slow and expensive.~~

Use Bluehost website if possible

Answer:

Common use cases - radio, military

When it was created, any variation?

Add numbers

Next Steps

1. Start wireframes and sketching

-Splash

-Main Menu

-Alphabet Chart

-Profile/Rank

-Settings?

--Alternate spellings?

--Color theme?

--

-Level Template

2. Continue feature list

3. Think about saving user progress? Unlock modules? -> probably in local storage on browser?

4. Login/logout needed or wanted? -> Add password code to unlock progress on different device. ->

Research Design Patterns (Programming Templates)

Can apply to whole application of small blocks of code.

ES6 Modules from separate files – section 13 – export & import from other files

App.js

Screen orientation shows black bars on sides – large tablet

Answer: user will turn screen to portrait mode if desired or live with black bars