



Team Phonetic Evolution

Design Review 3

The Team



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The Client



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The Problem





So what's the issue?

- ❑ Why is talking taught after vocabulary?
- ❑ Are tools available able to truly help teach how a language is spoken?



Lack of real life Data
Driven Learning Software



Context is often missing from
most Language Learning Sites

Lack of Pronunciation
focus





The Solution





PANDA

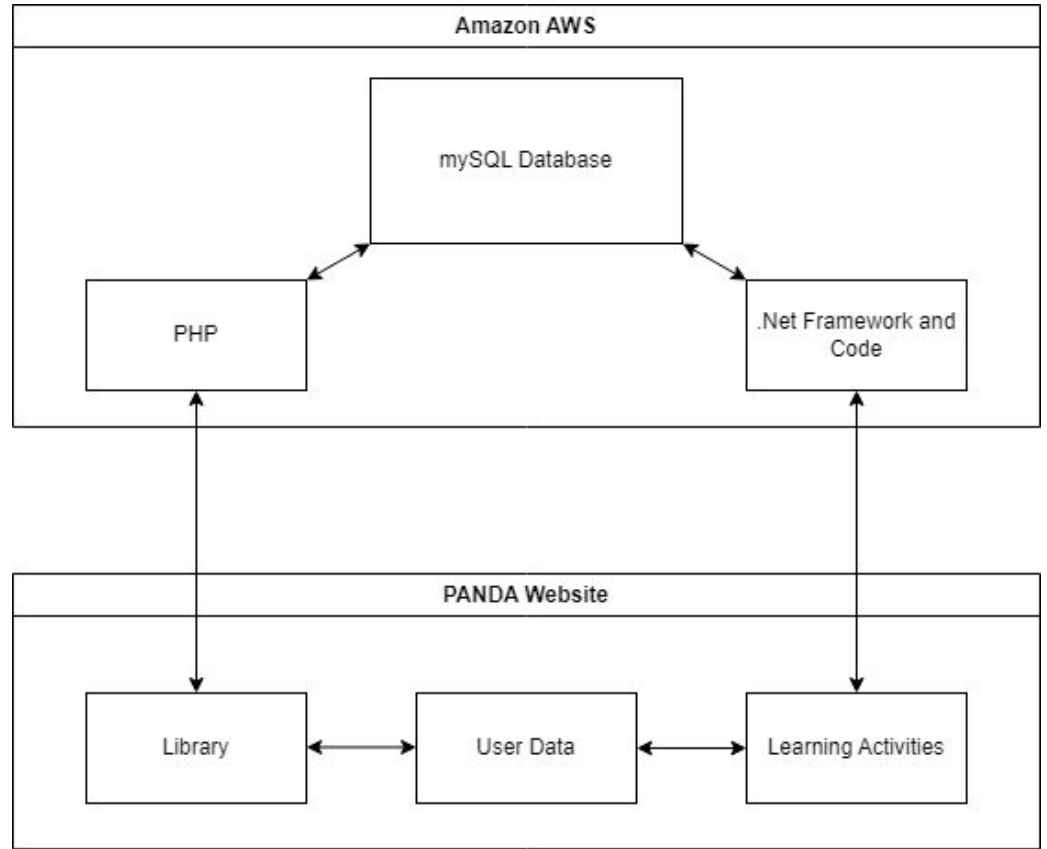
Pronunciation
through
Analysis
of
Data





The Requirements

- The ability for users to search a library for words and be provided with results that have accompanying audio playback and context for that word
- Gamified elements that will reward users for continued engagement - make the learning process less overwhelming and more fun
- Have users track their progress, and see how they're improving and what they need to work harder on.

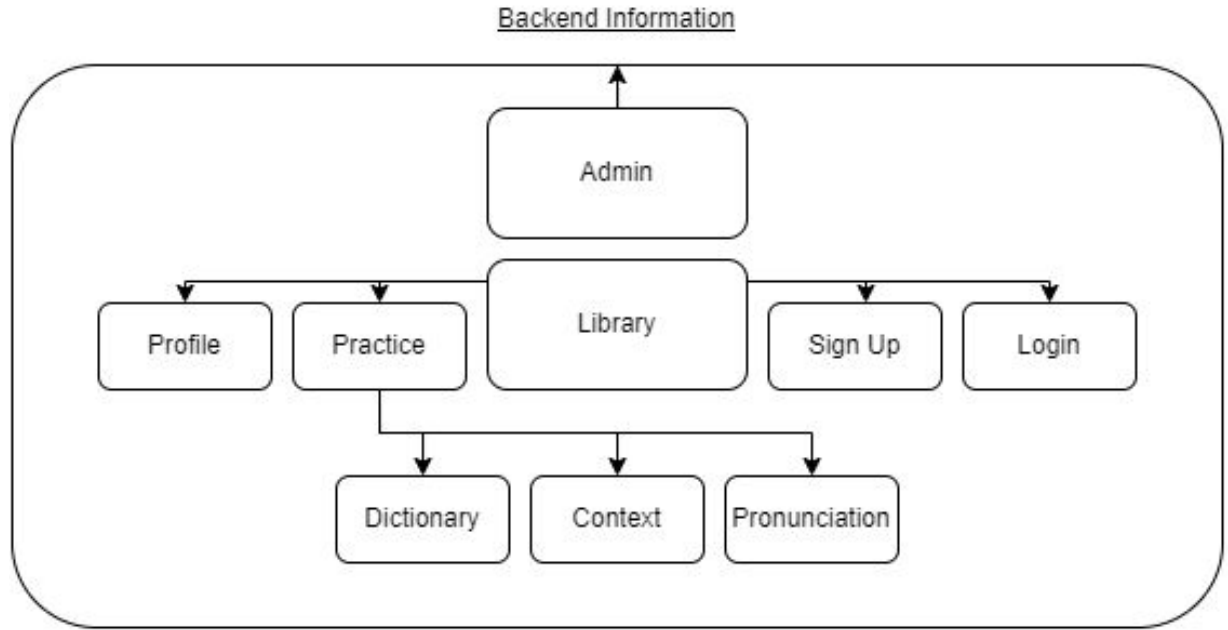


The Technology Architecture



The Website





The Website Architecture

The Library

Navigation ▾

LIBRARY



Test4

Enter search term

Search

Context
Quantity:

5

communicate

explain the ideas and to communicate the possibility of designing those uh



communicate

directions, and the second is uh communicate with different stakeholders constantly and



communicate

trying to do is to communicate and keep asking what they're



The Account Page

Hello Test4!

Top Players

1) : Test4 - Score 8

2) : test - Score 2



Day Streak

0

Daily Challenge!!



The Account Page

Total Words Practiced: 8

Personal Definitions

make, : To create something

of : A proposition that belongs to something

might : A possibility

a : One of the three thingies

involves : to be connected to something

Personal Ratings

their : 2

first : 3



The Practice Games

Practice Selection

Context Game

Dictionary Game

Pronunciation Game





The Context Game

Welcome to the Context Game!

What game would you like to play?

Given a sentence, what word would best fit into the blank?

Words

Given a word, which sentence would that word best fit into?

Sentences



The Context Game

Question: ... our boss gave us about ___ leaving the company. ...

A: they

B: that

C: Something

D: her

Correct!

Another Question

Back to Start Screen

The Dictionary Game

Word to define: have

Context: ... the United States, they have um actually in other ...

Word: have | Definition:

Save

[make.:](#) To create something

[of:](#) A proposition that belongs to something

[might:](#) A possibility

[a:](#) One of the three thingies

[involves:](#) to be connected to something

The Pronunciation Game

Navigation ▾

PRONUNCIATION



test

is

unit. It is it it is how much we are occupying



Click the slider to increase your Stats score:

Rate

The Admin Page

Navigation ▾

ADMIN



test

Search/Modify User:

- Change Password
- Change User's Group

test ▾ Admin ▾ Updated Password

import and add textgrid file and flac file into the backend.

No file selected. No file selected.

A decorative graphic on the left side of the slide features several green leaves of various sizes and shades, some with white icons. One large leaf contains a white eye icon and a white warning triangle with an exclamation mark. The background is white with several large, light grey circles scattered around.

Current Risks?

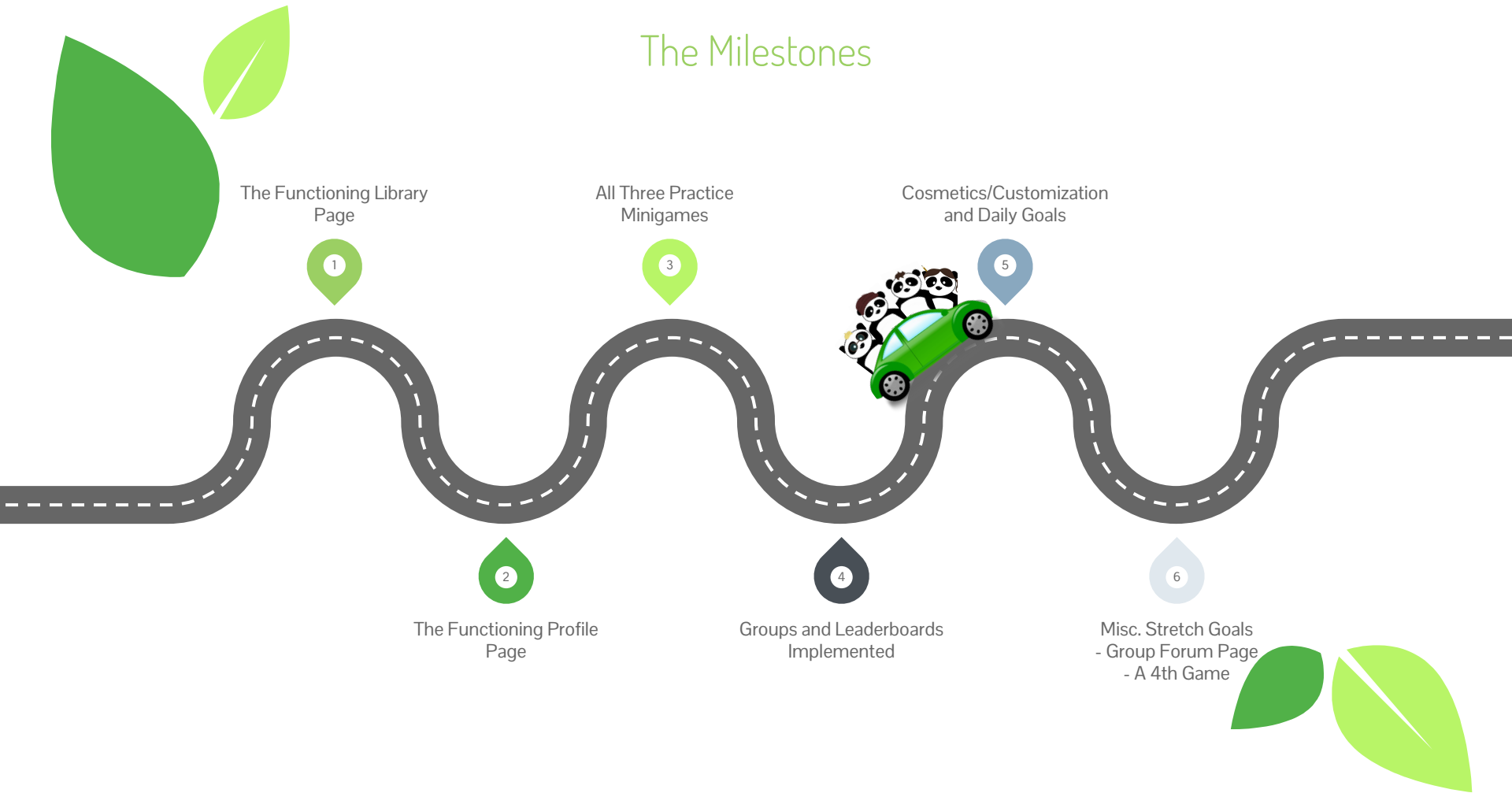
Lack of Scalability

Working with AWS does mean that some point the sheer amount of users could overwhelm the site

Unlikely and Low Impact

Due to this site currently being used for research, there is no personal information being stored in the database. As well as the idea of scalability and leaks occurring to also be very unlikely due to the current scale of the project, however encryption will be used to prevent these measures.

The Milestones





What's left?

User Testing

11/25/2023

We have 10 'random' users who plan on using the site over the course of 5 days to determine usability and enjoyment

Updating from User Feedback

12/1/2023

Once we have feedback, we will make the updates needed prior the accepted demo

Final Report and User Manual

12/8/2023

With the current version of the website currently up, we have all of the information we need for the final reports



Conclusion

- The world needs a new system for language learning that focuses more on pronunciation and contextualization
- PANDA will be a step in the right direction that will allow our clients to better research what students really need to succeed