Wordle Portle

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SoftDev pd2
P02 -- Wordle Portle Design Document
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Time Spent: 1.5 hours

Target "ship date": 3/28/22

Project Description: Our lord and savior GlaDOS has given us our newest puzzle. Due to [REDACTED] Corporation not releasing a new entry into the series, GlaDOS has made a new puzzle without them knowing. This is the Wordle Portle, a project designed to test human intelligence through logical deductive reasoning and puzzles. Do not disappoint.
- Wordle gives players six chances to guess a randomly selected five-letter word. As shown above, if you have the right letter in the right spot, it shows up green. A correct letter in the wrong spot shows up yellow. A letter that isn't in the word in *any* spot shows up gray.

Program Components:
1. Python file - handles databases and checking guesses
2. HTML/Jinja templates - rendering pages
3. SQLite database - storing usernames and passwords, user statistics (streaks)
4. JS files for animation - entering a guess, celebration after guessing the correct word
5. APIs - creates word to be guessed

Templates:
      Login.html - login page
      Register.html - register page
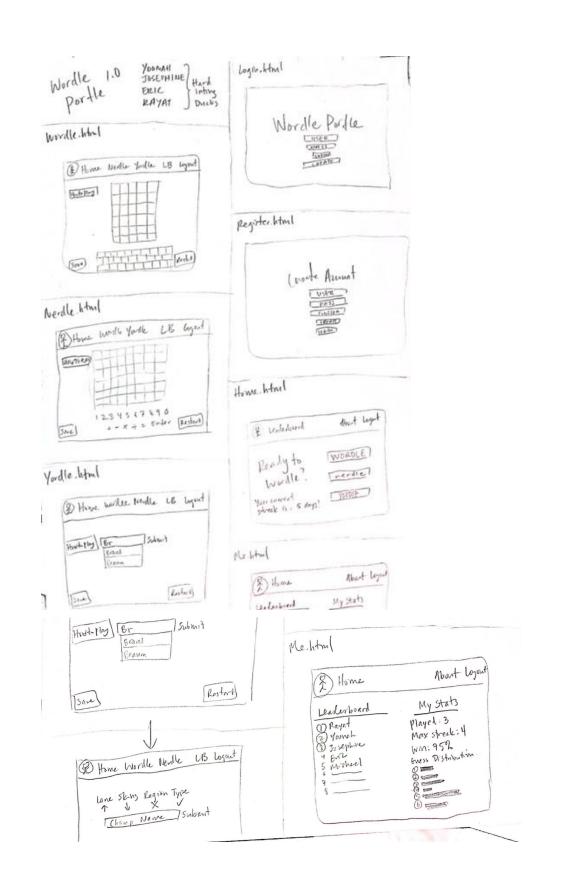   Me.html - contains user statistics and leaderboard
      Home.html - Home page after login
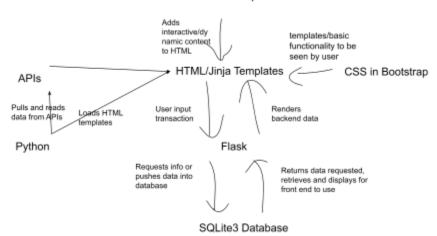   Wordle.html - original Wordle game
      Nerdle.html - nerdle game (math game)
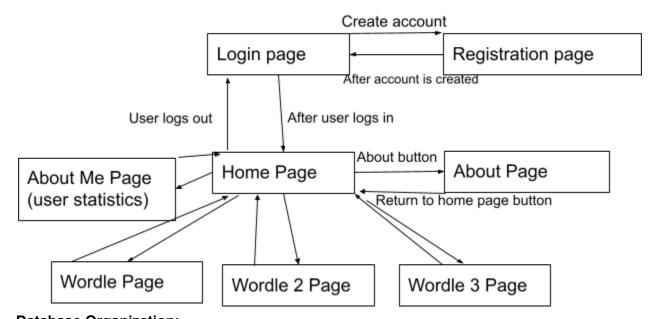   Yordle.html - league game (guessing League of Legends champions)

Wordle 1.0
Portle

YOONAH
JOSEPHINE
ERIC
RAYAT

Hard
Inting
Ducks

Wordle.html

Home Nerdle Yordle LB Logout

Howto Play

Save   Restart

Nerdle.html

Home Wordle Yordle LB Logout

How to play

1 2 3 4 5 6 7 8 9 0
+ - x ÷ = Enter   Restart

Save

Yordle.html

Home Wordle Nerdle LB Logout

How to Play   Br
              Braud
              Braum   Submit

Save   Restart

How to Play   Br
              Braud
              Braum   Submit

Save   Restart

↓

Home Wordle Nerdle LB Logout

Lane Skins Region Type
  ↑   ↓   X   ✓
  Champ Name   Submit

Login.html

Wordle Pordle

USER
GUESS
LOGIN
CREATE

Register.html

Create Account

USER
PASS
CONFIRM
CREATE
LOGIN

Home.html

Leaderboard   About Logout

Ready to   WORDLE
Wordle?   nerdle

Your current   YORDLE
streak is 5 days!

Me.html

Home   About Logout
Leaderboard   My Stats

Me.html

Home   About Logout

Leaderboard   My Stats
① Rayat   Played: 3
② Yoonah   Max streak: 4
③ Josephine   Win: 95%
4 Eric   Guess Distribution
5 Michael   ① ▬▬▬
6   ② ▬▬
7   ③ ▬▬▬▬
8   ④ ▬
                  ⑤ ▬▬▬▬▬
                  ⑥ ▬▬

Component Map:

JavaScript

Adds
interactive/dy
namic content
to HTML

templates/basic
functionality to be
seen by user

APIs → HTML/Jinja Templates ← CSS in Bootstrap

Pulls and reads
data from APIs

Loads HTML
Templates

User input
transaction

Renders
backend data

Python

Flask

Requests info or
pushes data into
database

Returns data requested,
retrieves and displays for
front end to use

SQLite3 Database

Site Map (frontend):

Create account

Login page ← Registration page

After account is created

User logs out

After user logs in

About button

About Me Page
(user statistics)

Home Page → About Page

Return to home page button

Wordle Page

Wordle 2 Page

Wordle 3 Page

Database Organization:
Table of Users and Passwords with statistics:

User	Password	Wordle_Streak	Nerdle_Streak	other_streaks
<user1>	<password1>	<wordle_streak1>	<nerdle_streak1>	More table columns for each -dle

<user2>	<password2>	<wordle_streak2>	<nerdle_streak2>	
...	...	…	…	

APIs:
1. WordsAPI
2. Random Word - gets random animal

Breakdown of tasks:
Yoonah - PM; Frontend (JS)
Josephine - Frontend (HTML, CSS)
Eric - Backend (JS)
Rayat - Backend (Python file; database handling)

Wordles:

1. Wordle
2. Animal Wordle(Birdle)
3. Nerdle
4. Yordle (League)
    a. Most common lane
    b. Amount of skinz
    c. Region (lore)
    d. Type? (assassin, tank, mage)

Front end framework selection:
We'll be using Bootstrap for our front-end framework. We'll be taking advantage of Bootstrap's custom cards to display the different Wordles, and their overall visually appealing styles of CSS/templates for the user to gaze at adoringly. We will also use Bootstrap's drop down menu, navigation bar, and button components to add parts of our different APIs.