

Hearts Of Diamond - PM Angela Zhang (Inky), Jonathan Wu (Loki), Jesse Xie (Polly)
SoftDev

P02 -- Design Document for 'Wordle Mania!™'

2022-03-01

Time Spent: 2.5 hours

Project Description:

Our project, Wordle Mania!™, is a unique take on the hit game Wordle, in which players try to guess as many of the randomly generated 5 letter words correctly as possible. In our version, players will have two versions that they can select - a default mode, and a hard mode. In both versions, players will try to complete as many words as possible in the time allotted. Depending on the mode, players may gain or lose time based on how they play. Players will compete for highscores for their own enjoyment or for a leaderboard where players may input a desired name after a session.

Wordle Mania!™

Features of both modes

- Leaderboard feature for 'finishing' your session
 - Upon completion, the user can input a username of their choice to represent themselves on the leaderboard.
- The timer begins when you enter your first guess.
 - The words will always be five letters, and do NOT include plural words.
- Much like the original Wordle, green tiles indicate that the letter is in the correct spot. Yellow tiles indicate that the letter is in the word but in the wrong spot. Gray tiles indicated that the letter is just not in the word.
- 500 points for completing a word
- 200 bonus points for less than 3 tries
- 100 points per green letter when time runs out

- Endless. The words keep coming and there isn't a 'daily wordle' for the user to complete.
- If you navigate to a different part of the website while the game is running, the session is not saved and your current score/game will be wiped.
- More game modes coming soon...?
- Default Mode
 - Chill background
 - Time based (3 minutes)
 - Gain time for completing fast (1 minute)
- Hard Mode
 - Intense background
 - Time based (1:30 timer)
 - Gain less time for completing fast (30 seconds)
 - Penalties for making bad guesses or something
 - Guessing the same word again or with letters that you already know do not exist in the word removes 10 seconds per error.

"Default" Page : The Default Mode Game of Wordle Mania!™

- Will act as the "landing page" for this website
- The player can begin playing upon first guess
- The player can navigate to the other parts of the website.

Hard Mode Page

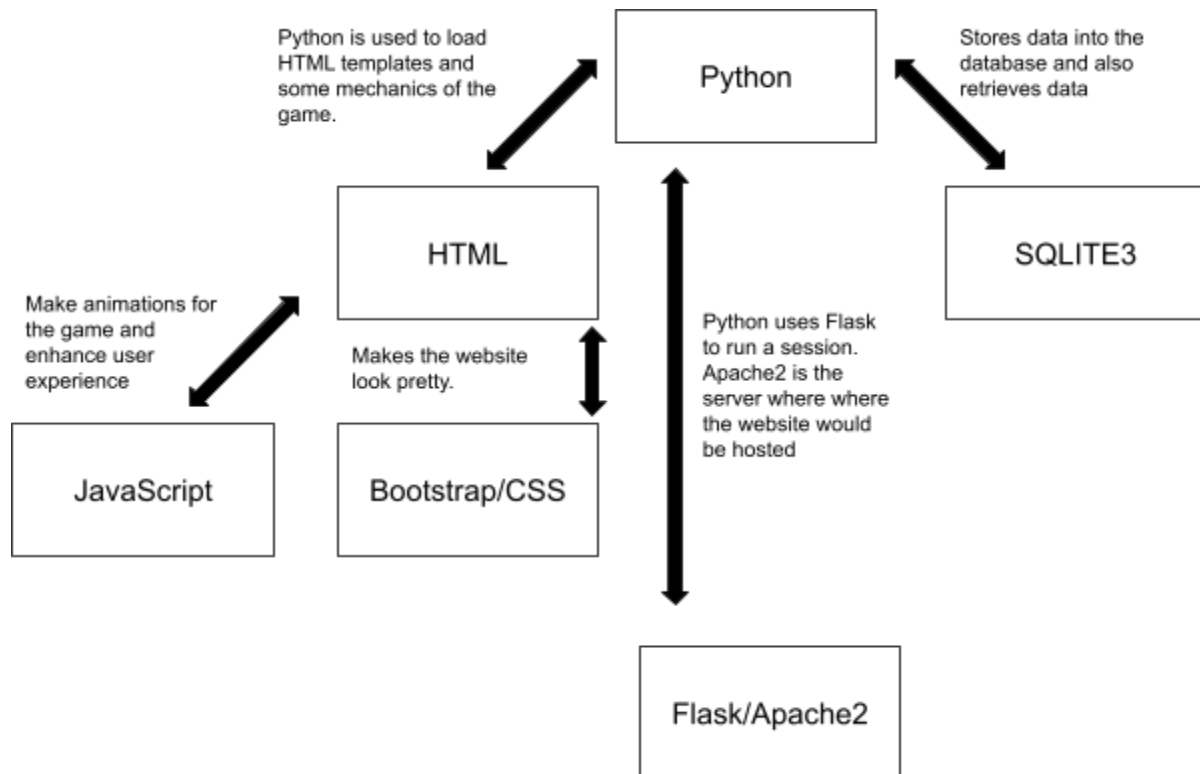
- Like the default page, the user can begin playing upon first guess
- Can also navigate to the other parts of the website

Leaderboard Page

- Displays the leaderboard from the ascending order of the user with the highest points score. This is separated into two leaderboards, the hard mode and default mode.

- Can also navigate to the other parts of the website.

Component Map:



Project Components:

- SQL3
 - We will use SQL3 to store leaderboard information in a table, and interact with flask accordingly to generate the leaderboard html page.
- JavaScript
 - We will use JavaScript to add animations to the website and the game in order to enhance the user experience. It will also be used for functionality whenever the user clicks on specific parts of the game.
- Python
 - This will be used to add functionality to the website by programming the game mechanics and other features of the website.

- HTML
 - Provides the text/skeleton of the website.
- Bootstrap/CSS
 - We will use bootstrap as our framework to create a visually pleasing and user friendly website.
- Flask/Apache2
 - This will be the server that our website will be hosted on.

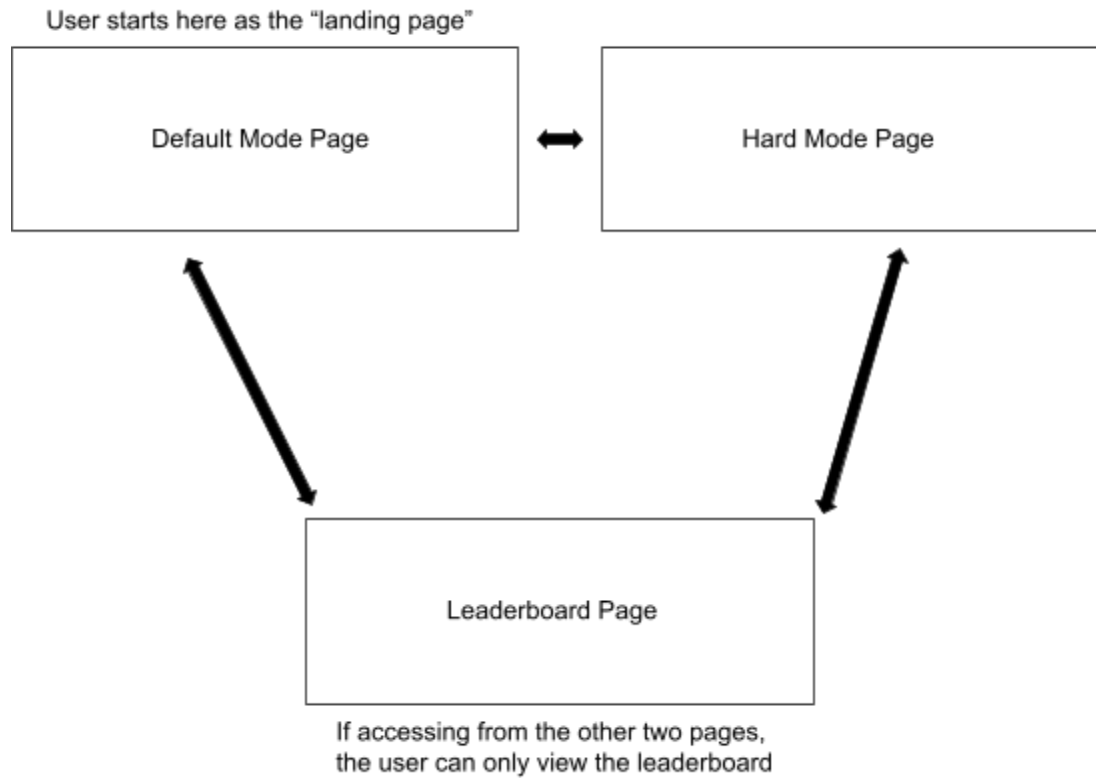
Database Organization:

- Leaderboard table

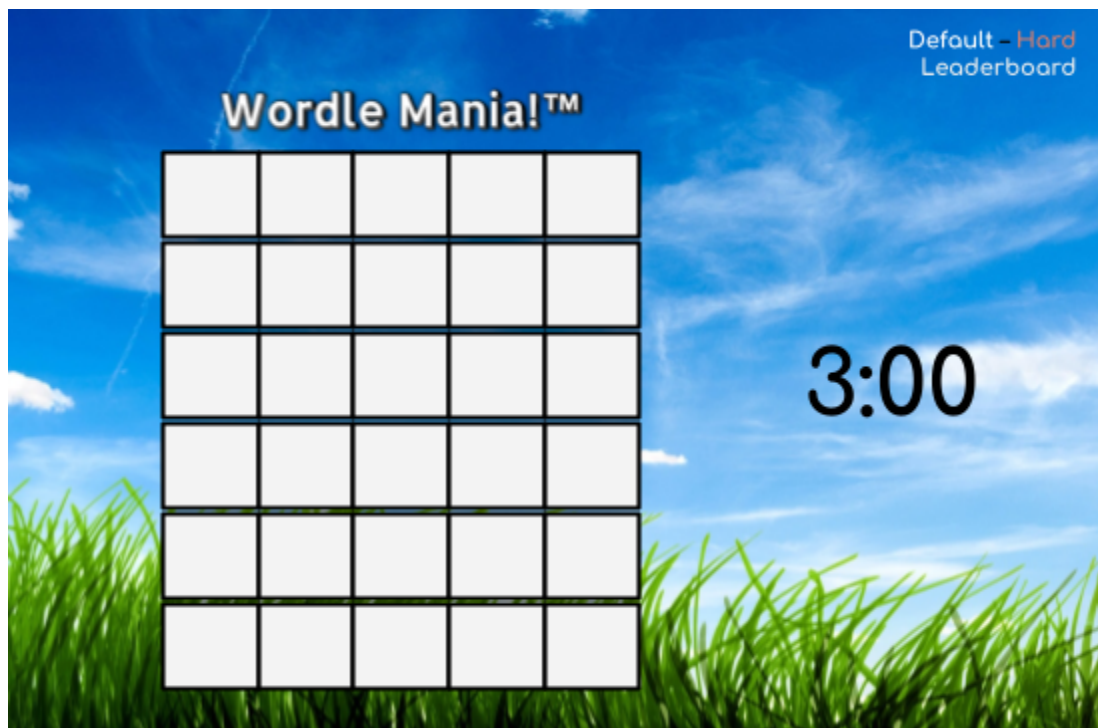
Username (TEXT)	Score (INTEGER)
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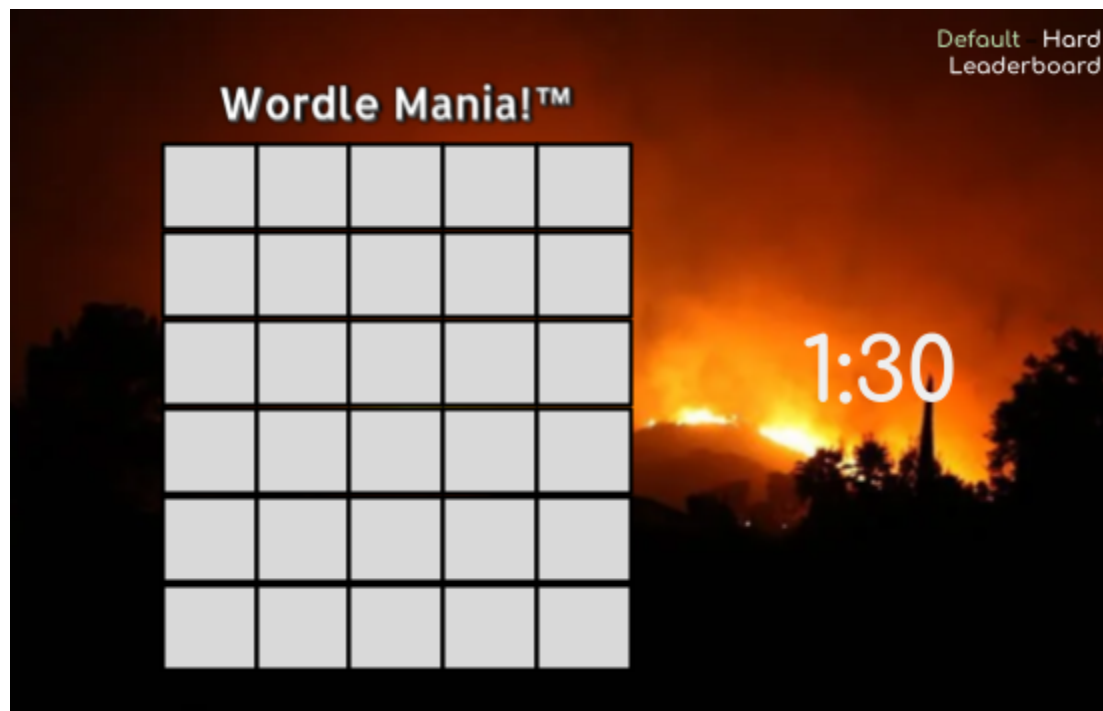
- Possible five letter words will be stored in a text file (.txt)
- Other variables, like the words already guessed, will be saved as session variables.

Site Map:



Site Templates:





Task Allocation:

Angela (PM): backend/frontend

Jonathan: backend/frontend

Jesse: backend/frontend

Target Date:

March 28, 2022