# Wordlemaxxers

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### **Team Information**

- Everyone on the team is using Windows 11.
- Each member has a personal laptop to access code.
- Our team meets every Saturday at 14:00 EST.

## **Project Info:**

- Description:
  - Recreate the game Wordle
  - Create an AI that solves the games' puzzles.
- Goals:
  - Fully implement the game and webapp design.
  - Have an AI that works efficiently.

# **GUI Mockup**



#### **Initial Code Base:**

```
#AUTHOUR: IZAAK WHITE
                                                                                           max attempts = 6
                                                                                           input text = ""
                                                                                           feedback message = ""
import random
                                                                                           guess list = []
                                                                                           run = True
import pygame
                                                                                           while run:
import sys
                                                                                               for event in pygame.event.get():
                                                                                                   if event.type == pygame.QUIT:
pygame.init()
                                                                                                      run = False
                                                                                                   elif event.type == pygame.KEYDOWN:
SCREEN WIDTH = 600
                                                                                                       if event.key == pygame.K RETURN:
SCREEN HEIGHT = 600 # Increased height
                                                                                                           guess = input text
WHITE = (255, 255, 255)
                                                                                                           feedback, num of guesses = processGuess(answer, guess, num of guesses)
BLACK = (0, 0, 0)
                                                                                                           feedback message = feedback
                                                                                                           if feedback == "*" * len(answer) or num of guesses >= max attempts:
screen = pygame.display.set mode((SCREEN WIDTH, SCREEN HEIGHT))
                                                                                                               run = False
pygame.display.set caption("Wordle Game")
                                                                                                           input text = "" # Clear the input box
font = pygame.font.Font(None, 36)
                                                                                                      elif event.key == pygame.K BACKSPACE:
def draw text(text, color, x, v):
                                                                                                           input text = input text[:-1]
    text surface = font.render(text, True, color)
    text_rect = text_surface.get_rect(center=(x, y))
                                                                                                           input text += event.unicode
    screen.blit(text surface, text rect)
                                                                                               screen.fill(BLACK)
def processGuess(T answer, T guess, num of guesses):
    T answer = T answer.lower()
                                                                                               draw text("Wordle Game", WHITE, SCREEN WIDTH // 2, 50)
    T guess = T guess.lower()
                                                                                               draw text("Attempts left: {}".format(max attempts - num of guesses), WHITE, SCREEN WIDTH // 2, 100)
    if len(T guess) != len(T answer):
                                                                                               draw text("Type a {}-letter word:".format(len(answer)), WHITE, SCREEN WIDTH // 2, SCREEN HEIGHT - 400)
        return "Please enter a {}-letter word.".format(len(T answer)), num of guesses
                                                                                               draw text(input text, WHITE, SCREEN WIDTH // 2, SCREEN HEIGHT - 350 + num of guesses*30)
                                                                                               draw text(feedback message, WHITE, SCREEN WIDTH // 2, SCREEN HEIGHT - 300 + num of guesses * 30) # Adjusted position
    if T guess not in word list:
        return "The word is not in the word list.", num of guesses
                                                                                               pygame.display.flip()
   clue = ""
                                                                                           pygame.quit()
   correct positions = set()
                                                                                           sys.exit()
```

## **Projected Tool Stack:**

- Potential Candidates:
  - VScode in Windows Python with Pygame Django Web API (current)
  - VScode in WSL HTML Tailwind CSS React Next.js REST API with Supabase

## **Work Summary:**

- Previous work:
  - Initial code base for game written by Izaak, testing of code base done by Matt
  - Recreation of current code base using different tool stack written by Josh

- Future projections:
  - We will decide as a team what Tool stack will work best moving forward
  - we will work on refining the AI