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WordleTournament Executive Summary

- This program plays a 5-round game of Wordle, where the first 3 rounds consist of "easier" words and the latter 2 rounds have "hard" words.
  - Word difficulty was determined by a machine learning created database where more points are given to a user depending on the complexity of the word.
  - This is used in tandem with other information such as how many attempts it took to get the word to calculate a score for each round played.
- Users are required to log in to the game using a unique username; this username can only contain lowercase letters and no other types of characters.
  - Usernames are tied to lifetime statistics (daily/total scores, rounds played, win streak) and guarantee that each user can only play the word set once per day
- The Wordle game follows the standard rules of the hit game from NYT, *Wordle*; there is an instructions page the user can click on to learn these rules
  - The Wordle game GUI allows the user to input letters via keyboard on-screen or the computer keyboard. The on-screen keyboard and guessed word letters will change color if the letter exists within the word (as it does in the original game).
  - The program verifies all user-inputted words by comparing it to a word bank to make sure the words are valid before the attempt is used. If the guessed word is invalid, the GUI will prompt the user to try a different word.
- Between each round, the GUI will display different messages depending on the number of attempts used to guess the word.
- If the word is not guessed correctly within the 6 allotted attempts, the score will be 0.
- An all-time score leaderboard is accessible in the main menu without the need of a username.
  - This leaderboard displays the top 5 users with the highest total scores
- A daily score leaderboard is also accessible in the main menu but requires a username to be input in the login box to view.
  - This leaderboard displays the top 5 scores of the current day and can access the top 5 scores of previous days as well. If the user is not within the top 5 scores, their username and daily score will be displayed at the bottom of the window.
  - A player lookup mechanic is implemented that allows users to search for other usernames to collect the user's stats such as total points, current win streak, etc.