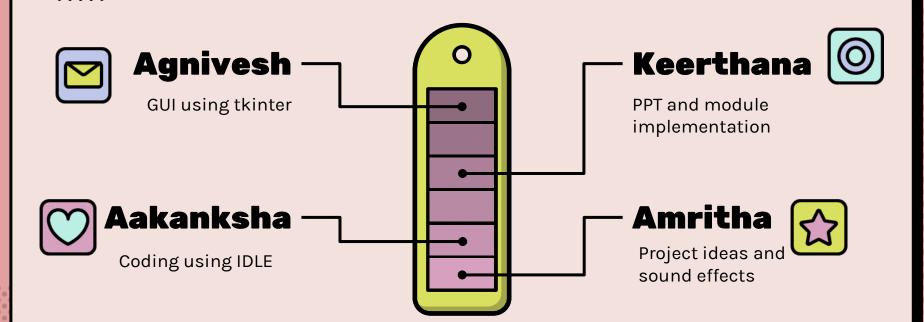


Division of Work







About the Project







objective

The project aims at a functional, good looking implementation of the wordplay game "HANGMAN"



working

to select a secret word from a list of words. The random module provides this ability.



tkinter

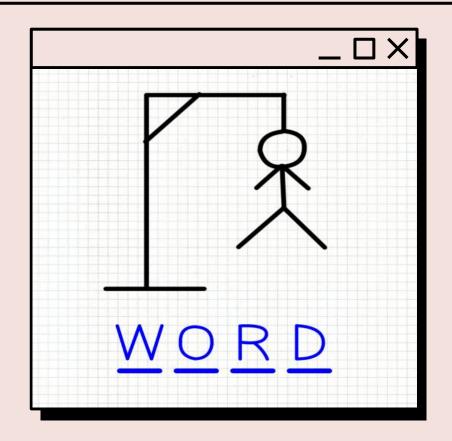
It is a pre-built GUI framework and library for python



How is the Game Played?

In this game, the player has a certain number of guesses to guess the characters in an unknown word. If the player is able to guess the characters in the entire word within certain attempts, they win. Otherwise, they lose.





List of Modules

- **Tkinter** is the standard GUI library for Python. Python when combined with Tkinter provides a fast and easy way to create GUI applications.
- Random module is an in-built module of Python that can be used to perform random actions such as generating random numbers, printing random a value for a list or string, etc.



>>>>>





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 - Pygame is a cross-platform set of Python modules which
 is used to create video games. It consists of computer
 graphics and sound libraries designed to be used with the
 Python language.
 - **Time** module in Python provides functions for handling time-related tasks such as- reading the current time, formatting time, sleeping for a specified number of seconds and so on.



- **Functools** module is for higher-order functions that work on other functions. It provides functions for working with other functions and callable objects to use or extend them without completely rewriting them.
 - Wonderwords is a python package useful for generating random words and structured random sentences. It also comes with a colorful command line interface for quickly generating random words.



ALGORITHM







First, we will ask for the name of the user. We will take the user input using the input() method. After execution, the input() method takes the input from the user and returns a string.

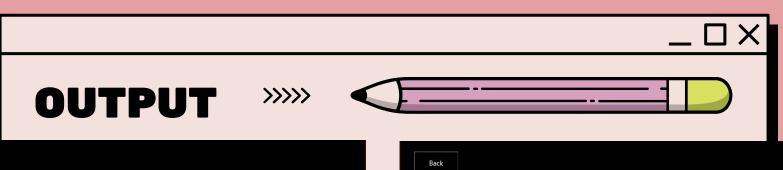
Next, we will select a word and ask the user to start guessing the characters in the word.

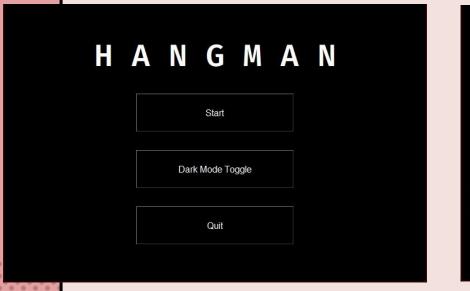
We will also define the maximum number of attempts the user can take.

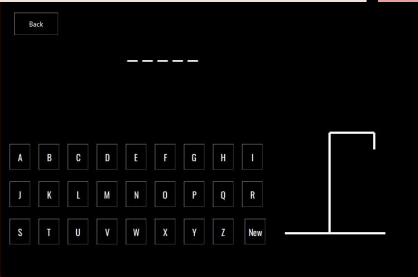
Now, we will use a while loop to repeatedly ask the user to guess the character until the attempts are exhausted. Inside the while loop, if the user guesses the correct character. We will include it in the response. Otherwise, we will notify the user that they made a mistake.

If the user is able to guess all the characters of the word within the maximum number of attempts, they win the game.

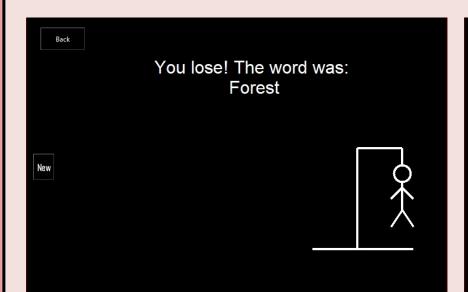
If the user exhausts all their attempts before guessing the entire word, they lose.

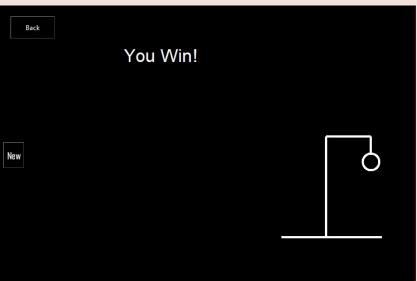


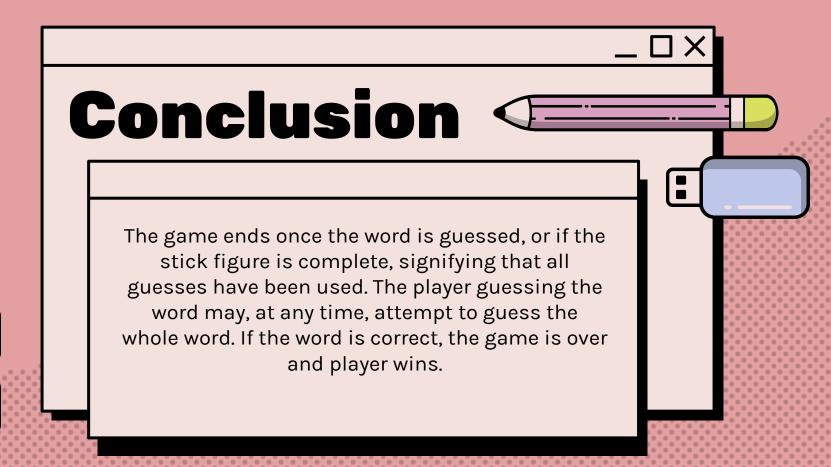


















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Learnings

Using tkinter to create user interface

Learning to use various python modules to develop games

Adding sound effects when the user clicks certain buttons

Optimisation of code



Future Work

We are working on adding

- Time limits
- Varying difficulty levels
- Themes such as fruits, flowers, cities for all the levels
- Hints
- Multiplayer option

