

Rapid Run Horse Racing Game

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Welcome to the **Rapid Run Horse Racing Game**, a text-based interactive simulation game where you manage horse racing details and simulate races. This project is designed for learning Python programming and implementing game logic with user interactions.

Introduction

Rapid Run Horse Racing Game is a console-based game built using Python. The game allows users to manage a virtual horse racing event by adding, updating, deleting, and viewing horse details. Users can also simulate races, display winning horses, and visualize race results using text graphics. The project is ideal for those interested in learning Python, implementing data structures like lists and dictionaries, and handling user input.

Features

- **Add Horse Details (AHD):** Allows the user to input and store details for up to 20 horses.
- **Update Horse Details (UHD):** Enables updating the existing details of a registered horse.
- **Delete Horse Details (DHD):** Removes a horse from the list of registered horses.
- **View Registered Horses (VHD):** Displays a list of all registered horses, sorted by their breed.
- **Save Horse Details to Text File (SHD):** Exports the details of all horses to a text file, categorized by group.
- **Select Horses for Major Round (SDD):** Randomly selects horses for the major round from different groups.
- **Display Winning Horses (WHD):** Simulates a race and displays the top 3 horses based on race times.
- **Visualize Winning Horses (VWH):** Visual representation of the race results using text-based graphics.
- **Exit Program (ESC):** Allows the user to exit the game at any time.

Usage

Once the script is running, follow the prompts to add, update, view, or delete horse details. You can also simulate a race and visualize the results. The game is interactive and will provide instructions and feedback after each action.

Game Instructions

- **Add Horse Details (AHD):** Type AHD and follow the prompts to add a horse.
- **Update Horse Details (UHD):** Type UHD and enter the Horse ID to update details.
- **Delete Horse Details (DHD):** Type DHD and provide the Horse ID to remove a horse.
- **View Registered Horses (VHD):** Type VHD to see a list of all horses sorted by breed.
- **Save Horse Details (SHD):** Type SHD to export horse details to a text file.
- **Select Horses for Major Round (SDD):** Type SDD to randomly select horses for a major round.
- **Display Winning Horses (WHD):** Type WHD to simulate a race and display the top 3 winners.
- **Visualize Winning Horses (VWH):** Type VWH to visualize the race results.
- **Exit Program (ESC):** Type ESC to exit the game.

Contribution

Contributions are welcome! If you have ideas for new features or improvements, feel free to fork the repository and submit a pull request. Please ensure your code follows the existing style and is well-documented.

References

1. **Font Styles**

Source: GitHub Gist

Format: fnky. Font Styles. [Online] Available at:

<https://gist.github.com/fnky/458719343aabd01cfb17a3a4f7296797>

(Accessed: 22nd December 2023)

2. **Python Version**

Source: Python Software Foundation

Format: Python Software Foundation. Python Release History. [Online] Available at: <https://www.python.org/downloads/>

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