```python
import json

import random

import time


def update_leaderboard(username, wpm):
    # Update and sort the leaderboard stored in a JSON file
    leaderboard = {}
    try:
        with open('leaderboard.json', 'r') as file:
            leaderboard = json.load(file)
    except FileNotFoundError:
        pass


    leaderboard[username] = wpm


    with open('leaderboard.json', 'w') as file:
        json.dump(leaderboard, file, indent=4, sort_keys=True)


def show_leaderboard():
    # Display the leaderboard from the JSON file
    try:
        with open('leaderboard.json', 'r') as file:
            leaderboard = json.load(file)
            sorted_leaderboard = {k: v for k, v in sorted(leaderboard.items(), key=lambda item: item[1],
reverse=True)}
            print("Leaderboard:")
            for rank, (user, wpm) in enumerate(sorted_leaderboard.items(), 1):
                print(f"{rank}. {user}: {wpm} WPM")
    except FileNotFoundError:
```

```python
        print("Leaderboard is empty.")


def load_words_from_json(category):
    # Load words from a JSON file based on the selected category
    with open(f'{category}.json', 'r') as file:
        data = json.load(file)
        return data


def get_user_input(words):
    # Capture user's input from the terminal
    typed_words = input("Type the words: ").split()
    return typed_words


def main():
    print("Welcome to the Typing Test App!")

    while True:
        username = input("Enter your username: ")

        print("Options: ")
        print("1. Start Typing Test")
        print("2. Show Leaderboard")
        print("3. Exit")

        choice = input("Choose an option: ")

        if choice == "1":
            category = input("Select a category: ")
            words = load_words_from_json(category)
```

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        start_time = time.time()

        print("Type the following words:")
        print(" ".join(words))

        typed_words = get_user_input(words)
        end_time = time.time()

        time_taken = end_time - start_time
        words_typed = len(typed_words)
        wpm = words_typed / (time_taken / 60)

        print(f"Words per minute: {wpm:.2f}")

        update_leaderboard(username, wpm)
    elif choice == "2":
        show_leaderboard()

    elif choice == "3":
        print("Thank you for using the Typing Test App!")
        break

    else:
        print("Invalid choice. Please try again.")
```