

HOME

ABOUT

MORE

Title :

TYPING SPEED TESTER

A C++ Project for Programming
Presented by Mahnoor and Rida

TABLE OF CONTENTS:

- Introduction
- Problem Statement
- Objective
- Scope
- Functionality/Modules
- C++ concepts used
- Conclusion

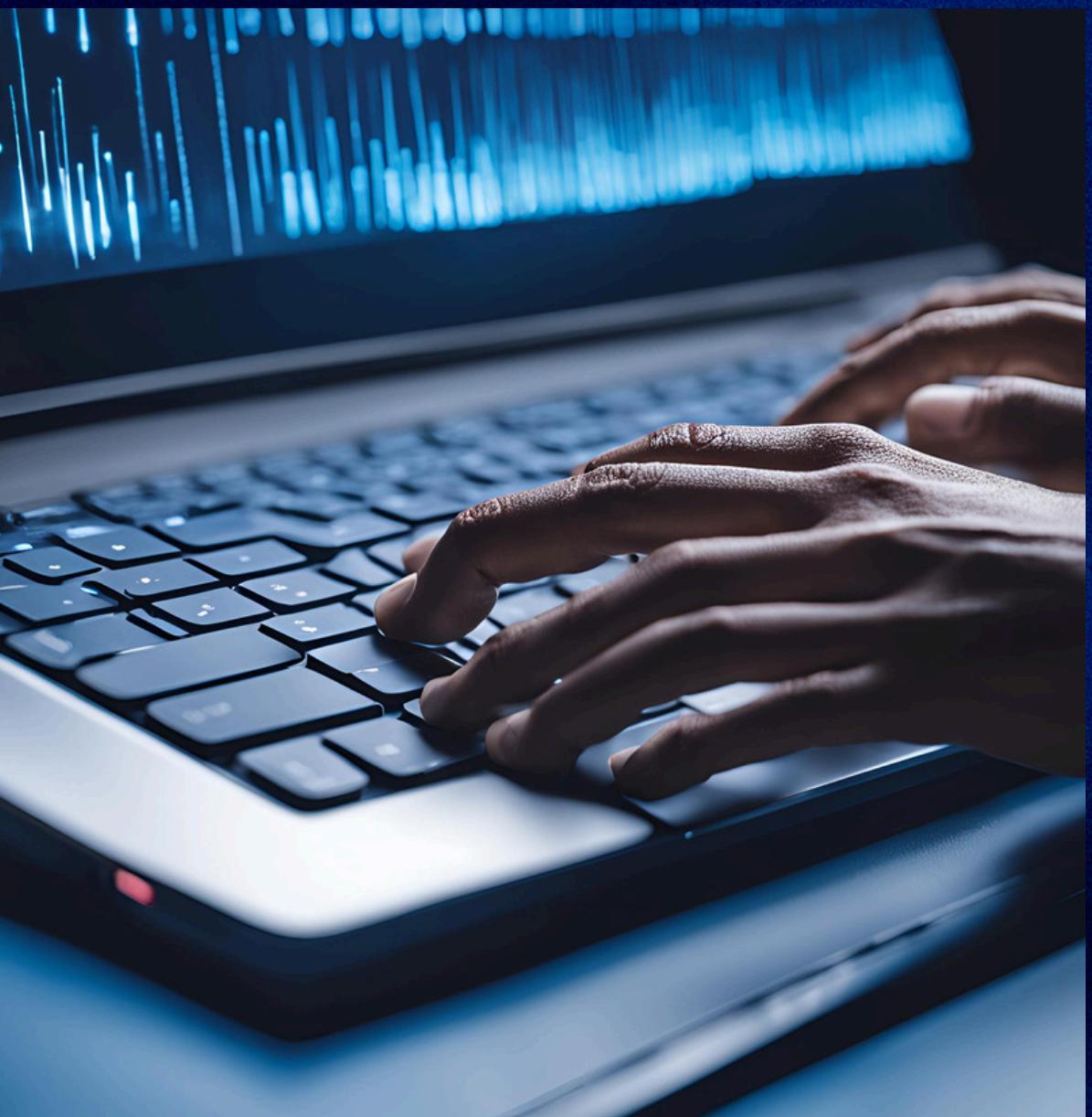
INTRODUCTION:

- What is Typing Speed Tester?
A simple C++ application to test typing speed, accuracy, and efficiency.
Measures time taken, words per minute (WPM), and typing accuracy.
- Purpose:
To help users improve their typing speed and accuracy through practice



PROBLEM STATEMENT:

- Many people want to enhance their typing speed and accuracy but lack proper tools to measure their progress.
- No simple application that combines speed and accuracy measurements for typing practice.



OBJECTIVE:

Main Objective:

- Create a user-friendly tool that measures typing speed and accuracy.

Specific Goals:

- Generate random sentences for practice.
- Calculate WPM (Words Per Minute).
- Assess typing accuracy by comparing user input with the original text.

SCOPE:

Who Can Use It?

- Students, professionals, or anyone wanting to improve their typing skills.

Application Areas:

- Educational tools for typing practice.
- Self-assessment for job readiness in typing-based roles.



FUNCTIONALITY/MODULES:

- Generate a random sentence for the user to type.
- Measure the time taken to complete typing.
- Calculate typing speed in Words Per Minute (WPM).
- Check typing accuracy by comparing typed input with the original sentence.
- Provide retry options to improve performance.

C++ CONCEPTS USED:

[HOME](#)[ABOUT](#)[MORE](#)

- **Input/Output (iostream):** To display prompts and get user input (e.g., cin, cout, getline).
- **Strings:** To store and manipulate sentences and user input.
- **Vectors:** To create a list of sentences for random selection.
- **Functions:** To organize the program into smaller tasks, like:
 - getRandomSentence
 - calculateWPM
 - calculateAccuracy
 - countWords
 - trim
- **Random Numbers:** Used to randomly select a sentence from the list.
- **Chrono Library:** To measure the time taken for typing.
- **Loops:** To allow retrying until the user decides to quit.
- **Conditionals:** To calculate and display results or exit the program based on user choice.



OUTPUT:

Output

Clear

Welcome to the Typing Speed Tester!
Press Enter to start typing...

Type the following sentence as fast as you can:
"technology has made the world a smaller place we can now communicate with
people across the globe in an instant information is available at our
fingertips and the way we work live and interact has changed
dramatically"

s| Start typing: technology has made the world a smaller place we can now
communicate with people across the glove in an instant information is
availbale sa out fingetrips and thw wau we work live and interact has
changed dramatically

--- Results ---
Time Taken: 49.00 seconds
Words Per Minute (WPM): 45.31
Accuracy: 94.48%

Do you want to retry? (y/n): n



CONCLUSION:

- TYPING SPEED TESTER IS A PRACTICAL TOOL TO MEASURE TYPING SPEED AND ACCURACY.
- IT IS BUILT USING C++ FEATURES SUCH AS FUNCTIONS, STRINGS, VECTORS, AND LIBRARIES LIKE CHRONO.
- AIMED AT HELPING USERS IMPROVE THEIR TYPING SKILLS EFFICIENTLY.

HOME

ABOUT

MORE

THANK YOU FOR YOUR ATTENTION

Feel free to ask any questions.