

## **Project Presentation of Full Stack Engineering (FSE) (22CS037)**

On

## **QUICK-TYPE**

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## Introduction

In today's digital world, efficient typing skills are essential for students, professionals, and casual users. Quick-Type is an interactive web-based application designed to help users improve their typing speed and accuracy through real-time tests and performance tracking. Built using the MERN stack (MongoDB, Express.js, React.js, Node.js), Quick-Type offers a seamless user experience with personalized profiles and data-driven insights to enhance learning and engagement. Unlike static typing tests, this platform provides instant feedback, ensuring continuous improvement.



## What problem does this project solve?

Traditional typing practice methods face several limitations:

- Lack of real-time feedback Users don't receive immediate insights into their typing performance.
- No personalized progress tracking Users can't monitor improvements over time.
- Static and outdated platforms Many typing test tools lack interactivity and engagement.
- Accessibility issues Some platforms are not optimized for different devices.

Quick-Type solves these challenges by offering an interactive, responsive, and scalable typing test platform that delivers real-time performance analysis and user-friendly engagement.



### **Tech Stack**

The Quick-Type application is built using modern web technologies:

#### 1. Frontend (User Interface):

- React.js (Fast and interactive UI development)
- Tailwind CSS (Modern and responsive styling)

#### 2. Backend (Business Logic & APIs):

- Node.js with Express.js (Server-side logic and API handling)
- MongoDB with Mongoose (NoSQL database for user data and typing test results)
- JWT Authentication (Secure user authentication)

#### 3. Tools & Libraries:

- Vite (Fast development environment)
- Postman (API testing)
- bcrypt (Secure password hashing)



## **Features**

- Real-time Typing Tests Instant feedback on words per minute (WPM) and accuracy.
- User Authentication Secure login/signup with JWT-based authentication.
- Personalized Profiles Users can track their progress and view past test results.
- Performance Analytics Data-driven insights to monitor typing improvement.
- **Responsive Design** Optimized for desktops, tablets, and mobile devices.
- Secure Data Storage User information and test results stored securely in MongoDB.



## **Conclusion**

Quick-Type is an innovative and user-friendly platform designed to help individuals enhance their typing speed and accuracy through interactive tests and personalized progress tracking. With robust authentication, real-time analytics, and an engaging user experience, this project aims to make typing practice more efficient and accessible. By leveraging modern web technologies, Quick-Type ensures scalability, security, and seamless performance, making it a valuable tool for students, professionals, and anyone looking to improve their typing skills.



# Thank You