PC Controller Using Wi-Fi

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Abstract—This paper represent how your PC can be controlled by android device using Wi-Fi. This application smartly controls PC’s keyboard functions and mouse operations through an android device. This Android application is based on concept of using the touch screen of the Android device as a mouse. With the Keypad of Android device, user can even use it for typing it on any word processor. The software application once installed on an android device will allow users to control other PC’s functionality through their android device. Within a Wi-Fi range a user can remotely access the PC instead of sitting beside it.

Keywords—Socket Programming, Wi-Fi, Android device, PC Control, JAVA.

I. INTRODUCTION

Android device and personal computers became important part of day to day life. Controlling Pc wirelessly is an important aspect of the technology. A PC Controller Using Wi-Fi is an android application that works like PC mouse and keyboard. This application controls PC keyboard functions and mouse operations through an android device using Wi-Fi. The System will be such that the PC will act as a server and the android device will act as a client. The application requires a Wi-Fi Connection between the PC and the android device. After established Wi-Fi connection between PC and Android device, Using this software application control keyboard and mouse function.

II. LITERATURE REVIEW

Controlling PC doesn’t always have to be like running a virtual PC on your mobile device. The existing system has been developed based on a android device for that user can easily control presentations.

There is some limitation into wireless input/output device and also wired input/output device. Disadvantages of wireless input/output device there is some speed limit and time to time you have to change battery.

III. METHODOLOGY

A. Login
Login in to the application. Which allow user to access the controlling mode.

B. Wi-Fi Connection
After the Wi-Fi Connection establishment, mention the IP Address and Port number. After successful Connection you can control PC using Android device.

C. Controlling mouse and keyboard
User can control mouse and keyboard functionality by sitting anywhere, within Wi-Fi range.

IV. IMPLEMENTATION

In the software application there is a Client-Server architecture. In which phone is a Client and PC is a Server. Connecting it to the Wi-Fi, Mentioning the IP Address and Port number. Desktop application is in java and mobile application is in Android. It will be android application which uses Android Studio, and another app is Desktop application which uses Netbeans. It uses Java Platform and Android Platform This application overcome the limitation of mouse and keyboard [2].
V. **Graphical User Interface**

Fig. 1 shows the login module of the system. In this system user can login in Android application and send request to perform command.

Fig. 2 shows Connection details. Mentioning the IP Address and Port number.

Fig. 3 shows connection module from Clientside. After entering valid IP Address and Port number connection is establish.

Fig. 4 shows mouse module.
Fig. 4 shows mouse module. In which user can control mouse operations using Android device.

![Mouse Module](image)

**Fig. 4 Mouse Module**

VI. CONCLUSION

This application control pc using android device. The system can be used from anywhere by user, there is no need to use external hardware device. [2] This software application is used in Corporation, Bank, Government offices, school etc. This application is flexible and secured.

REFERENCES


Fig. 5 shows keyboard module. With the Keypad of Android device, user can even use it for typing it on any word processor.

![Keyboard Module](image)

**Fig. 5 Keyboard Module**