Slide Navigator an Android Application

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Abstract - Slide navigator is android application for sliding the pages of the power-Point presentation through smartphone. Computer connected to projector and smart-phone connected to computer through Wi-Fi. The user request to PC through port and PC check the port and verifies it, when the details are match it moves to further process to navigate the slides of power-point presentation through smart phone. This presentation can be handled by user within the range of Wi-Fi by navigating with a touch of smart phone making it easier. The application when installed in smart phone act as remote control. In existing system we can edit the content of power-point presentation, highlight the content and dynamic pointer to content these features are not available which is proposed in our application and this can be done only by a single person just by touch to navigate the slides.

*Key Words***: Wireless fidelity, Android Phone, Java, Socket Programming.**

1. INTRODUCTION

Smartphone's has become necessary and are the major part of our day to day life. Many wireless devices such as computer, smart phone, tablet etc are used by user in order to get the work done. There exist several situations where we want to wirelessly and comfortable handle the power-point presentation. The slide navigator is an android application which facilitate user to handle the power-point presentation remotely using the smartphone. This application navigate slide of the power-point presentation by using smart phone. In this application the computer and the smart phone must have Wi-Fi facility. The presentations can be handled by the user from anywhere within the range of Wi-Fi.

1.1 Project Idea

Idea behind this project is to solve the problems of people which they face while conducting the presentation. This system will facilitate user to handle the presentation from anywhere within the range of Wi-Fi. User can navigate, edit, delete, and add the slides which enable the user to give the more effective presentation.

1.2 MOTIVATION OF THE PROJECT

There exist several situations where user want to wirelessly and comfortably operate a presentation, where the computer screen is projected onto a big screen through a projector such as classrooms, conference or meeting rooms, work-group project environments and modern office environments. However it is very difficult for the presenter to use it to control the presentation while he/she is walking around. Wireless presentation controller does have good mobility. Several designed application are available in the market for the purpose of operating presentation remotely and wirelessly, such system has few drawbacks. So in order to overcome such situation we will be proposing a system that will provide users with better presentation facilities.

2. LITERATURE SURVEY

Through the literature review we came across certain paper which provide capability to the user have remote access to laptop using android smartphone. Various application are available in the market that enables a user to have remote access to laptop. We have realized that there was no such application that enable user to handle the presentation from android smartphone without the help of internet. There are many problem faced by the presenter while navigating slides as he always need to dependent on other person for performing the job for him. Keeping all these drawback in mind we decided to develop application that will allow a user to remotely handle the presentation using android mobile.

3. PROBLEM DEFINITION AND SCOPE

3.1 PROBLEM STATEMENT

Suppose a person is giving the presentation and simultaneously he also wants to wander around the presentation hall, in such scenario user may face some interrupts for giving the well effective presentation. In our proposed system the problems will be solved as the user can navigate, edit, delete, add the slides and can provide dynamic pointer to the content.

3.2 Goals and objectives

It allows the user to navigate the slides of the power-point presentation through smart phone. It allows real-time editing of contents of power-point presentation, highlighting the contents and providing dynamic pointer to contents.

3.3 Statement of scope

Slide navigator is an android application which facilitate user to control the presentation by using his/her android handset.

4. System Architecture

The application can be used to cruise slide over Wi-Fi. Navigation of slides can be control from android mobile. Navigation commands need to be given from the client side. These navigation commands can be recognized by server running on PC and corresponding commands is passed over server side.
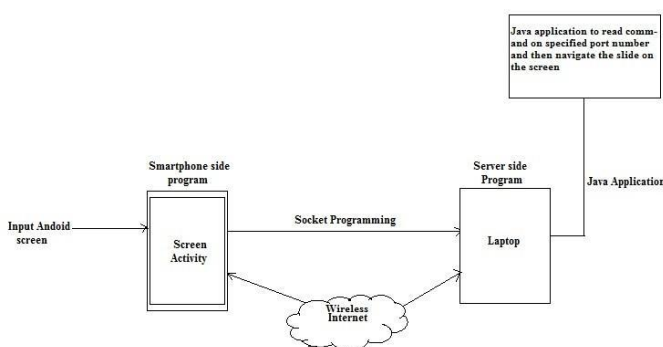

Fig -1: System Architecture for wireless Slide Navigation

The Fig. 1 denotes System Architecture for wireless slide navigation where the smartphone side module resides on the android mobile phone which is initially running the screen activity. The screen activity interacts with the user. The input is given by user to this screen activity to navigate the slide which resides on the PC. Client and server module communicate with each other using socket programming over Wi-Fi.

Server side module present on the PC has an application program which continuously governs the incoming commands and immediately execute these navigation commands. The java application present on server side read the commands on specified port number and execute the same. This enables a user to execute navigation commands.

5. APPLICATIONS

Classrooms: Instructor has the full mobility in classroom while teaching with a computer. The instructor will be allowed to be away from the instructor computer and still has full control of the instructor computer. Instructor can Use his/her smart-phone to handle power-point presentation.

Meeting/conference rooms: Meeting attendees can operate the computer for discussion or presentation without leaving their seats.

Value-added system to projector products: This system can be bound to projector product and facilitate users to use their computers and projectors.

6. CONCLUSIONS

This system describes how to turn smartphone into power-point presentation remote controllers. The system presented above can be widely used in classrooms and meeting/conference rooms for presentation and interactive discussion. It also allows user to use smart-phone to operate his presentation. Currently we are exploring approaches of using smart devices as controllers or operators for other devices. As automation is the order of the day this system will lead to a systematic and fluent presentation that will wirelessly control the presentation.

REFERENCES

[1]   Y. Yang and L. Li, Turn Smart-phones into Computer Remote Controllers. International journal of computer theory and engineering, Vol. 4, No. 4, August 2012.

[2]   Dr. Khanna Samrat Vivekanand Omprakash, concept of remote controlling PC with smartphone input from remote place with internet.

[3]   Jadhav, A. , Oswal,V., Madane,S., Zope,H., Hatmode,V.(2012): VNC ARCHITECTURE BASED REMOTE DESKTOP ACCESS THROUGH ANDROID MOBILE PHONES,1(2),pp. 2278 – 1021. Mishra, S.; Singh, A.; Patil, H. (2013): Controlling PC Application through Mobile Phone, 3(1), pp. 141-145.

[4]   Thadani, H., Kumari, S., Shaikh, M., Baravkar N., Kale. S. (2013) :Monitoring PCs using Android.

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