

**BAHRIA UNIVERSITY ISLAMABAD**

**VIRTUAL PROGRAMMING**

**PROJECT PROPOSAL**

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# **ENCRYPTED MESSENGER WITH CROSS PLATFORM XAMARIN**

In our daily work privacy is a big issue. Whether you want to send a data to someone which is confidential or a private chat. The encrypted messenger is the best way you can send and receive your private messages without any unauthorized access. Basically the messenger will be available on android mobile phones as we are using cross platform Xamarin to build this messenger. The working of the messenger is between 2 PC’s by the help to LAN or you can say TCP IP Protocols and UCP, through which 2 PC’s can chat privately on the same IP. The message is sent in an encrypted form and the other person can decrypt it by some password or key.

With the Help of Xamarin this will be an android application but only for those mobile phones connected to same IP address.

The Approach of this project is to let people to chat privately without the access of other people.

The Environment we are using is Visual Studio 2013 and a Cross platform Xamarin plugin for Visual Studio 2013.

# **Goal**

As mentioned above goal of this project is to let to people chat privately or we can say a private chat environment between 2 PC’s. With the Help of Xamarin this will be an android application but only for those mobile phones connected to same IP address.

# **Working**

Working is pretty much explained above. The Encrpyted messenger will be created in Visual Studio 2013 with Xamarin plugin for Visual Studio. Obviously with the help of Xamarin this will be an Android Application. The Front screen first of all will show login page because the user will always have to login for that or may be register himself. After that it will ask for the IP which will be same on both the devices. After that the chat can begin. The message will most probably be encrypted and on the other hand the user will have to put some password or key to decrypt the message to read it.

# **Prototype**



