**Project Proposal**

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1. Title of the project: Wi-Fi file transfer
2. Overview of the Project

This is about sharing files and communicating without data charges using Wi-Fi in a user-friendly environment. So, the users can communicate with this like a messaging application with file sharing functionality in a local area network using Wi-Fi.

Main task is to develop windows application for personal computers. It is hope to developed for android and Linux in future.

In this system user’s messages or data are the inputs and output is to send it to the destination person or the group of people.

1. Objectives of the Project

Objective of this project is to provide a simple and easy interface to the users to share the data and communicate via Wi-Fi. This system will provide a solution to fast file sharing and free chatting in a Local Area Network.

1. The Need for the Project

Nowadays people are using devices like laptops and mobile phones that has Wi-Fi functionality. But in computers it is still been used Bluetooth stock application if needed to share some files wirelessly. It is slow and not a much user friendly process. If this is done by Wi-Fi it will be faster than Bluetooth. Another problem in such applications that are already exist ask for another connection for that. But in this system will be developed to use sharing functionality without having another network connection by using Wi-Fi hotspot of a using device.

1. Scope of the Project

Main user roles: 1. Sender

2. Receiver (in a conversation a person can act as both)

Main functions: 1. Create a hotspot

2. Sending text messages

3. Receiving text messages

4. Sending files

5. Receiving files

1. Deliverables

This system will deliver a Standalone windows pc application (hope to develop for other platforms in future)

1. Overview of Existing Systems and Technology

Existing systems:

Feem [1] - multiplatform application with good functionality. free version with limitations and adds. Expensive system.

I am planning to use:

C# [2]

Metro UI framework [3]

MS SQL [4]

1. References

[1] Feem <http://tryfeem.com/>

[2] C# <https://msdn.microsoft.com/en-us/library/kx37x362.aspx>

[3] Metro UI framework <https://thielj.github.io/MetroFramework>

[4] MS SQL <https://www.microsoft.com/en-us/sql-server/sql-server-2016>.