

**Tribhuvan University**

**Institute Of Engineering**

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**A Project Proposal On**

Chat App



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Finally, we hope to complete the project in time with all the love, support and encouragements.

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**Introduction**

Chat App is a messenger type GUI app. Users can communicate and share files with each other, if in the same local network. The user has the option to host or be a client and communicate. It is a multi-chat app, so more than one user can use it at once. There will be two options: public and private chat. The use of GUI will make it easy to use and share.

The core language is C++ in object-oriented manner, Qt will be used for GUI and socket programming for communicating with each other. Qt is a cross-platform application framework that is used for developing application software. Socket programming is a way of connecting two nodes on a network to communicate with each other. One socket (node) listens on a particular port at an IP, while other socket reaches out to the other to form a connection. Server forms the listener socket while client reaches out to the server.

**Objectives**

1. To be familiar with object-oriented approach in C++.
2. To use C++ to make real world software applications.
3. To understand group co-ordination and working in groups using GIT.
4. To know how network works and how we share information using networks.

**Existing System**

The Chat app basically uses sockets to communicate between two or more computers connected in a local network. Also sockets are used everywhere when it comes to network. So there are many existing examples or systems that use it. The internet is the biggest example of all. It is no longer just a place of content. Social networking sites and all websites use sockets or internet protocols to share informations.

**Proposed System**

The app