

# MBCAT :: CHAT APPLICATION

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Red Hot Oompa Loompas  
IIT Bombay

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# Overview

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# Motivation

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Mbcat was started by a group of IIT Bombay Sophomores to bring back the 'terminally' ill mode of chatting with the advent of Facebook Messenger, Whatsapp and other 'innovative' chat applications.

For those afraid to go out and explore these overly complicated GUIs of the modern world, Mbcat is here!

# Software Implementation and Design

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- The chat application is implemented in python 3.x with the aid of a few standard libraries like json and ldap3.
- Python beats C++ to it due to it's less code more functionality feature (Let's not talk about overhead for a moment)
- The database used is sqlite3 which is available on a vanilla version of python and doesn't require the installation hassles of MySQL and PostgreSQL.
- The library Ldap3 is used to connect to the cse server for client authentication

# Cool Features

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- Mbcats supports the formation of group chats and of course sending private messages to enhance the bonhomie that we all so dearly enjoy.
- Group chats come with the common functionality that other chat clients like Messenger and Whatsapp provide (Let's not denigrate them anymore, okay?)
- Along with the above, can perform similar actions on multiple groups.
- Mbcats also enables users to block other pesky users from sending them irritating texts, while you can also unblock them. (People do change!)
- Sending a text doesn't require both users to be online. Messages are stored and made visible to the user when he/she logs in, along with meaningful timestamps

# Implementation :: Manas Bhargava

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- Basic Design of the Application
- Connection between client and server
- Authentication to the LDAP server
- Appropriate Formatting of Messages

# Implementation :: Bhavya Bahl

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- Basic Design of the Application
- Last Seen and timestamp features
- Supporting sending of private messages
- Verification and Testing

# Implementation :: Charles Rajan

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- Structural Implementation of Database
- Communication Protocol between Client and Server
- Features of groups



# Implementation :: Tanuj Kaza

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- Multimedia functionality
- Extending features of groups
- Extending features of private messages

# Potential :: Why Mbcat ?

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- Mbcat offers you respite from the gloomy eye-sore of graphical interactive applications (Okay, now I'm REALLY going to stop!)
- Caters to the nerdy folk out there who are not really socially awkward
- Let's not be capitalist pigs and just start using Mbcat, OKAY?

# What Next?

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- Improving existing features
- Fully enable support of all multimedia
- Enable Video and Audio features
- Making the application more robust and bolstering the security

# References

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- [Basic Implementation of Client Server Model](#)

# Team Red Hot Oompa Loompas

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- Tanuj Kaza (150050008)
- Charles Rajan (150050054)
- Manas Bhargava (150050057)
- Bhavya Bahl (150050110)

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# Thank You

(So let's get in touch on Hangouts? ... Never Mind)