

## Project Design Phase-I

### Solution Architecture

DATE	23-10-23
Team id	Team- 590898
Project Name	Chat Application
Maximum marks	4 marks

#### Solution Architecture:

A simple chat application can be designed using a client-server architecture. The client-side is responsible for the user interface and the server-side is responsible for handling the communication between clients.

Here are some of the components that can be used to build a simple chat application:

1. **Chat Client:** The chat client is responsible for providing a user interface to the user. It can be a web or mobile application that allows users to send and receive messages. The chat client interacts with the chat server to send and receive messages.
2. **Chat Server:** The chat server is responsible for handling the communication between clients. It receives messages from clients and forwards them to the intended recipient. The chat server can be built using a REST API or WebSocket server.
3. **Database:** The database is used to store messages and other data related to the chat application. It can be used to store user information, message history, and other metadata.
4. **Authentication:** Authentication is used to verify the identity of users and ensure that only authorized users can access the chat application.
5. **Encryption:** Encryption is used to secure the communication between clients and servers. It ensures that messages are not intercepted by unauthorized parties.

#### Solution Architecture Diagram:

