Project Design Phase-I
Proposed Solution Template

Date	15 October 2023
Team ID	Team-591070
Project Name	CHATCONNECT - A Real-Time Chat and Communication App
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	For sending and receiving text messages using an android application with a user-friendly experience. This category has a wide variety of programmes, but many of them lack features. Some might not have backups and storing, some might not have privacy and security, and some might not have consistency or seamless operation. When a programme performs exceptionally well in one area but falls short in other crucial areas. These will create a greater impact of losing customers and their interest to use the application.
2.	Idea / Solution description	Using the Android Compose UI toolkit to design an application to improve performance. A user-friendly environment is created for the user by utilising the Compose libraries. It provides examples of how to utilise composable functions to handle input and navigation and how to populate the user interface with data from a firebase.
3.	Novelty / Uniqueness	A creative environment for the user to receive and send messages will be ensured by utilising the Android Compose UI toolkit and the Compose frameworks. As a result, there will be less traffic between the servers while sending and receiving messages. The state management features will take care of the user's security and privacy. The history of the messages will be backed up and stored by the firebase. Including

		each of these aspects will result in a creative and intuitive application.
4.	Social Impact / Customer Satisfaction	The programme will operate with excellent speed if the built-in Compose libraries are used. Messages can be sent or received quickly, even when there is a lot of traffic between the servers. It is a helpful duty for the user to including the firebase for saving the conversation history. In summary, we can state that a straightforward application offers better performance.
5.	Business Model (Revenue Model)	The application we release in different stores is the centre of our primary business. Constructing the application to operate on a variety of operating systems, including, Android, iOS, Windows, Linux, and Mac OS. The revenue includes the database management, firebase servers, and new updates in the application.
6.	Scalability of the Solution	From a technology point of view, sending and receiving messages via an application is inherently scalable. Its success as a scalable solution is ensured by its ability to effectively handle many users at once, adapt to high demand server management, and interact with both existing and future upgrades.