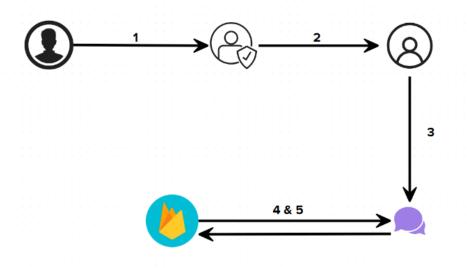
Project Design Phase-II Technology Stack (Architecture & Stack)

Date	24 October 2023	
Team ID	Team-591016	
Project Name	ChatConnect - A Real-Time Chat and	
	Communication App	
Maximum Marks	4 Marks	

Technical Architecture:



- 1. User Login & Two Factor Authentication Using Smartphone Generated One Time Password.
- 2. Profile Setup.
- 3. Now users can send messages to another user.
- 4. The message is stored in the firebase database.
- 5. The message is stored in the database until the other user receives the message.

Table-1 : Components & Technologies:

S.No	Component	Description	Technology	
1.	User Interface	How user interacts with application	Kotlin Android Studio	
2.	Application Logic-1	Logic for a process in the application	Kotlin	
3.	Application Logic-2	Logic for a process in the application	Android compose UI tool kit	
4.	Database	Data Type, Configurations etc.	Shared Preferences	
5.	Cloud Database	Database Service on Cloud	Firebase	
6.	File Storage	File storage requirements	Local Filesystem	
7.	External API-1	Purpose of External API used in the application	Firebase	
10.	Application	Purpose of Machine Learning Model	Real time messaging	
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration:	Firebase, Local	

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Firebase for backend, Kotlin in Android Studio, utilize open-source frameworks for efficient development, enhance user experience.
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Use Firebase Authentication, Realtime Database, and Cloud Functions with Kotlin to ensure secure real-time chat app communication in Android Studio.