

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

Date	03 October 2022
Team ID	Team-591094
Project Name	Chatconnect - A Real-Time Chat And Communication App
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

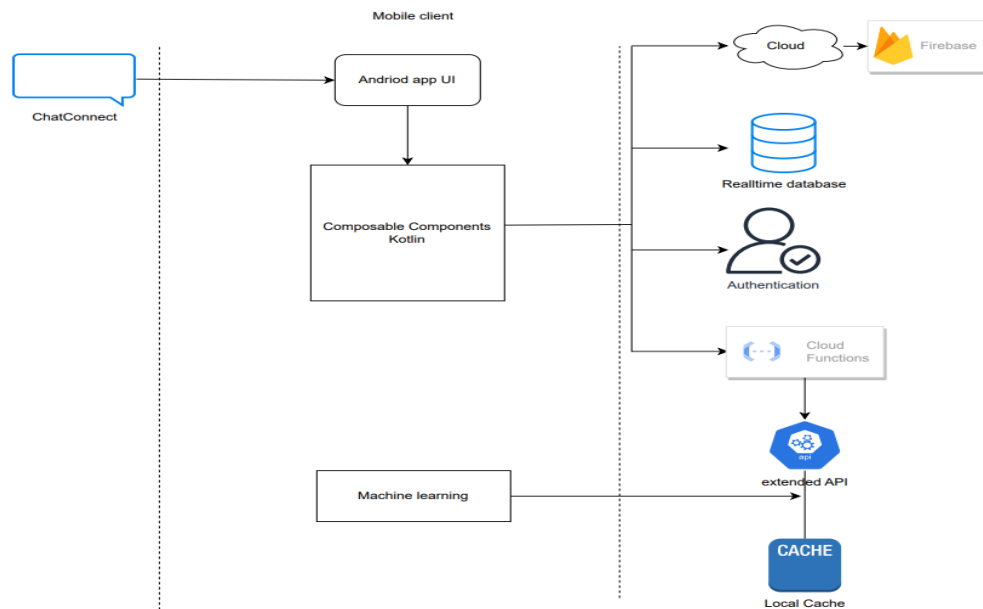


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Mobile android app	Kotlin
2.	Application Logic-1	User needs to log in	Kotlin
3.	Application Logic-2	Log in credentials need to be authenticated	-
5.	Database	Real time db	Firebase
6.	Cloud Database	data stored in cloud	Firebase
7.	File Storage	Local db	Filesystem
8.	External API	Not Used	-
10.	Machine Learning Model	Not Used	-
11.	Infrastructure (Server / Cloud)	firebase server and cloud	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:N

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Utilize open-source frameworks and libraries	Retrofit, OkHttp, Dagger 2
2.	Security Implementations	Implement security measures for user data	SSL/TLS, OAuth 2.0, Encryption
3.	Scalable Architecture	Design a scalable architecture for growth	Cloud Services, Microservices

S.No	Characteristics	Description	Technology
4.	Availability	Ensure high availability for uninterrupted service	Load Balancing, Redundancy
5.	Performance	Optimize for high performance and responsiveness	Caching, Threading, Compression