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YoYou
final

*you can register your account to test

1. Reference: chat app is built based on Firbase Chat App

https://www.youtube.com/watch?v=t7m_F27cUHY&list=PLZhNP5qJ2IA0ZamF_MDzvmb3bNMv-mLt5

Because chat part and database part are very difficult for me, so I will build my app based on the tutorial which I referenced.

2.

	1st	2nd	3rd	4th	5th
Views/controller	Navigation controller in signinVC	Navigation controller in contactVC			
AVKit(framework)		ChatVC			
mobileCoreService(framework)		ChatVC			
CoreData					To save and load default username and password in sign in view
Persistent user setting					Setting user favorite words in setting show it in sign in view

Other framework that I used in my app, such as JSQMESSAGE and firebase database, firebase storage, firebaseAuth, SDwebimage is not from the apple developer API. So, I didn't list them in the table.

Thank you