UNIST TAXI PROJECT

MOBILE AND AWS SERVER ARCHITECTURE

Overview

Android, IOS

Flutter

GetX

2 Cognito only for @unist.ac.kr

Auth

3 Amplify

graphql

6 DynamoDB

4 Firebase

subscribe

7 Firebase Cloud Message

subscribe

8 Push Notification

chat log

5 SQFlite

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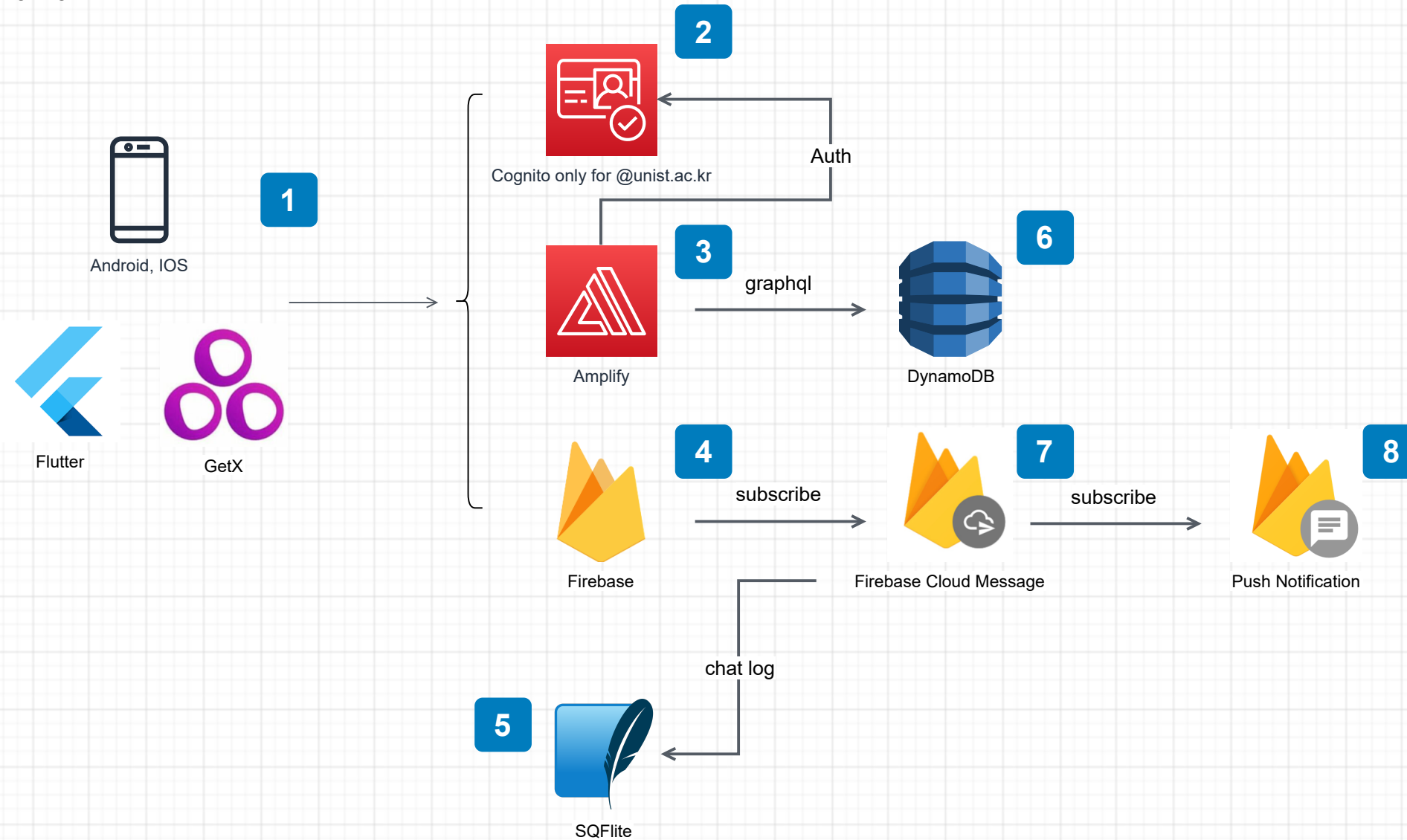
1 We supply Android and IOS both. And we build app with Flutter framework with Getx.

more info Flutter : https://flutter.dev
more info GetX : https://pub.dev/packages/get

2 For AuthN, We will use AWS Cognito. Cognito support user manage, MFA(Multi Factor Authentication) and so on.

We only permit '@unist.ac.kr' email to prevent abusing.

3 Amplify is powerful App management tool. To control DB and Auth, We will use AWS Amplify.

4 We will use Firebase to use FCM.(We consider GraphQL subscription function instead of FCM. But FCM is best choice for mobile.)

5 SQFlite is DB of flutter. New chat log would be stored in SQFlite. When user enter chatting screen, flutter read SQFlite recent data. (We decide to use local storage(SQFlite), to reduce cloud storage cost.)

6 With Amplify, We access to cloud database. User, Profile, Joined Party, Party database build app screen and function.

7 Firebase Cloud Message would subscribe chatting activity and push notification. When new message activity is detected, chat log would be stored in SQFlite DB. If puh notification alarm is activated, push noti also display on mobile.

8 When new party is built or new chat is received, push notification would display on user's phone.