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Notifications in Mobile Apps

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What are App Notifications ?

A notification is a message that displays outside your app's UI to provide the user with reminders, communication from other people, or other timely information from your app. Users can tap the notification to open your app or take an action directly from the notification.

Need of Notifications ?

Notifications are Everywhere !!!

- Getting Path rerouting in Google Maps or in similar kind of navigation apps
- Gettings Tracking status of food - delivery / ecommerce app
- Marketing of feature associated with App
- Getting reminders of alarm , Improve customer satisfaction
- Getting message sent/received status in Social Media kind of app (Whatsapp ,Instagram ,etc)

Types of Notifications in Mobile Apps

For both iOS and Android Platform we have following types

a) In App Notifications : In-app notifications are shown to users when the app is open. These can look like pop-ups or colorful interstitial ads .

b) Push Notifications: Push-Notifications are sent to platform using background server handling (pusher) to all requested users
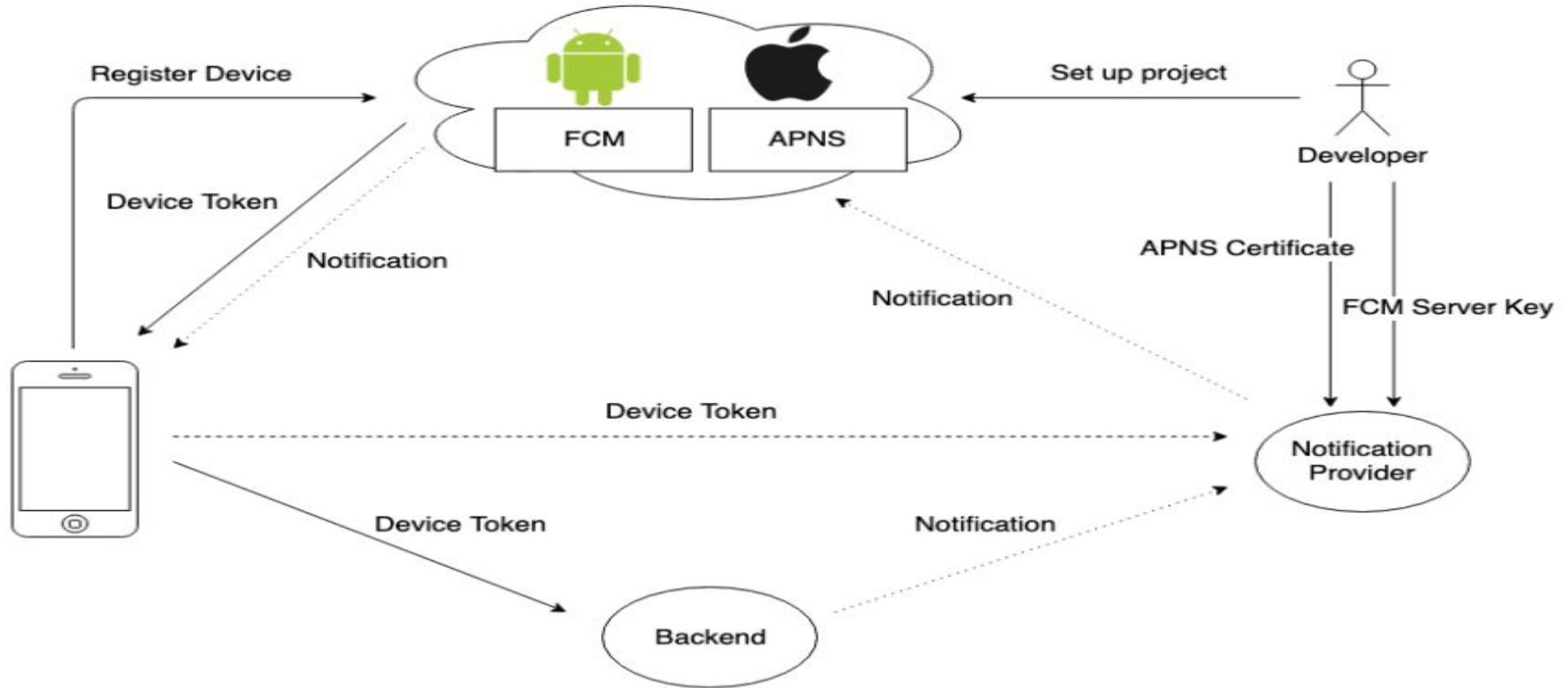
Providers of Push Notifications & Logic behind it.

To Integrate Push Notifications in your mobile application , we have major leading Providers is

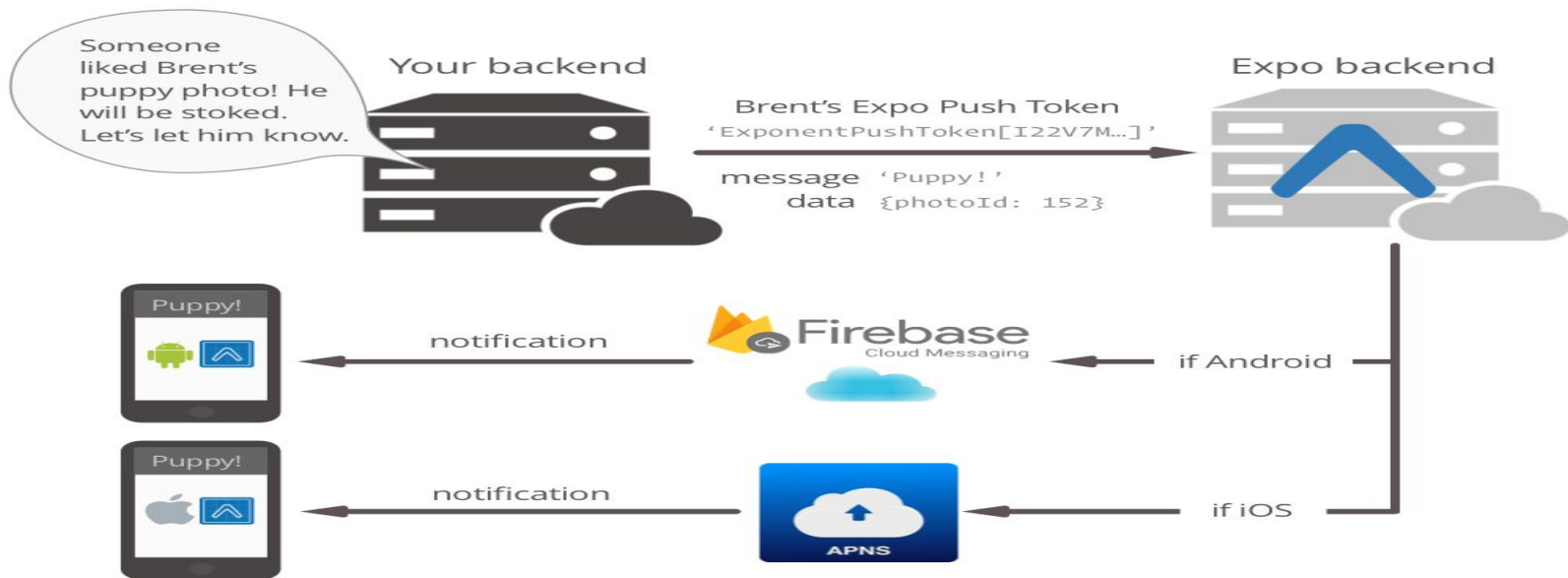**Google Firebase Cloud Messanging : (Famous Provider)**

They support integration for multiple languages like React Native, Flutter ,Java ,etc.

In this method with API Integration, one gets a FCM Token unique for device on which app is running , they are stored in some where database and using that token we send required message and user received in real-time. The entire sending backend is managed by Google.

Diagram of Firebase Cloud Messanging

Expo : (Special Provider for React Native)

Steps to Integarate FCM in React Native Mobile App

Go to official firebase docs , follow the procedure for messaging() as given in docs , create a android app inside your firebase console project and go to cloud messaging in left menu add fcm token which you get during console.log(token) in application . You should store in firestore but for temporary we'll go with test.

Backend implementation using NodeJS

To implement this , we are using Expess.js as a framework for creating a server , firebase sdk as mentioned in official docs , prompt npm package ,

The shared code file link is main server.js file which starts a localhost server on port 3000 , Ask the message to be sent and send to it

[Click here to open the attached resource](#)

THANK YOU