

## Firestore

- Firestore is a mobile and web application development platform developed by Firestore, Inc. in 2011.
- Firestore evolved from Envolv, a prior startup founded by James Tamplin and Andrew Lee in 2011.
- Envolv provided developers an API that enables the integration of online chat functionality into their websites.
- After releasing the chat service, Tamplin and Lee found that it was being used to pass application data that weren't chat messages.
- Developers were using Envolv to sync application data such as game state in real time across their users.
- Tamplin and Lee decided to separate the chat system and the real-time architecture that powered it.
- They founded Firestore as a separate company in April 2012.
- In October 2014, Firestore was acquired by Google.
- In October 2015, Google acquired Divshot to merge it with the Firestore team.
- Since the acquisition, Firestore has grown inside Google and expanded their services to become a unified platform for mobile developers.

## Services provided by Firestore

### Realtime Database :

- Firestore provides a realtime database and backend as a service.
- The service provides application developers an API that allows application data to be synchronized across clients and stored on Firestore's cloud.
- The company provides client libraries that enable integration with Android, iOS, JavaScript, Java, Objective-C, Swift and Node.js applications.
- The database is also accessible through a REST API and bindings for several JavaScript frameworks such as **Angular**, React, Ember.js and Backbone.js.
- Cloud Firestore which is Firestore's next generation of the Realtime Database was released for beta use.

### Authentication :

- Firestore Authentication provides backend services, easy-to-use SDKs, and ready-made UI libraries to authenticate users to your app.

- You can authenticate your app's users through the following methods: Email & Password, Phone numbers, Google, Facebook, Twitter etc
- Using Firebase Authentication makes building secure authentication systems easier, while also improving the sign-in and onboarding experience for end users.

### **Firebase Cloud Messaging :**

- Firebase Cloud Messaging (FCM) provides a reliable and battery-efficient connection between your server and devices that allows you to deliver and receive messages and notifications on iOS, Android, and the web at no cost.

### **Firebase Storage :**

- Firebase Storage provides secure file uploads and downloads for Firebase apps, regardless of network quality.
- The developer can use it to store images, audio, video, or other user-generated content. Firebase Storage is backed by Google Cloud Storage.

### **Firebase Hosting :**

- Firebase Hosting is a static and dynamic web hosting service that launched on May 13, 2014.
- It supports hosting static files such as CSS, HTML, JavaScript and other files, as well as dynamic Node.js support through Cloud Functions.
- The service delivers files over a content delivery network (CDN) through HTTP Secure (HTTPS) and Secure Sockets Layer encryption (SSL).

In Angular application development we can use all the above services provided by the firebase.