Mobile Application Development

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Firebase Overview

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❑Firebase history

❑The all new Firebase

❑Real-time database

❑Firestore

❑Authentication

❑Storage

❑Remote config

❑Hosting

❑ Crash reporting

❑ Test lab

❑ Firebase cloud messaging

❑ Dynamic links

❑ App indexing

❑ Analytics

❑ Donation Highlights & Demos along the way…

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History of firebase

❑ Originally firebase was an online chat message integration service.

❑ Later the real time architecture was separated to create firebase database in 2012.

❑ Firebase surfaced as a popular choice when Parse.com went down.

❑ Google acquired firebase in 2014 and added a whole lot of features in *Google IO-2016*.

❑ Firebase is now a complete BaaS solution.

Introducing Firebase

What Is It?

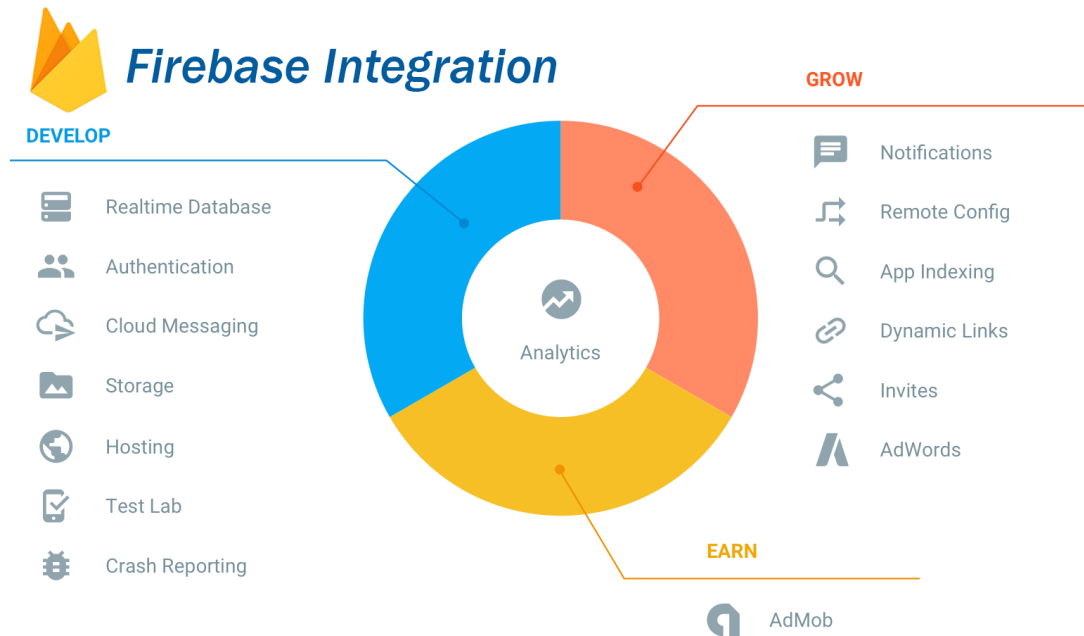- ❏ Cloud database ?
- ❏ Another name for Google app engine?
- ❏ Cross platform solution ?
- ❏ Another name for GCM ?
- ❏ Analytics ?
- ❏ Virtual private server ?
- ❏ @^#%$&)!<*>^%($....

What It is, is …

❑A complete BaaS solution that includes

- ▪ Real time JSON database
- ▪ Authentication
- ▪ Cloud storage
- ▪ Cloud messaging
- ▪ Crash reporting and analytics
- ▪ And a lot more

Firebase Integration

DEVELOP
- Realtime Database
- Authentication
- Cloud Messaging
- Storage
- Hosting
- Test Lab
- Crash Reporting

GROW
- Notifications
- Remote Config
- App Indexing
- Dynamic Links
- Invites
- AdWords

Analytics

EARN
- AdMob

Firebase
Products

Build better apps

Cloud Firestore BETA
Store and sync app data at global scale

ML Kit BETA
Machine learning for mobile developers

Cloud Functions
Run mobile backend code without managing servers

Authentication
Authenticate users simply and securely

Hosting
Deliver web app assets with speed and security

Cloud Storage
Store and serve files at Google scale

Realtime Database
Store and sync app data in milliseconds

Improve app quality

Crashlytics
Prioritize and fix issues with powerful, realtime crash reporting

Performance Monitoring
Gain insight into your app's performance

Test Lab
Test your app on devices hosted by Google

Grow your business

In-App Messaging
Engage active app users with contextual messages

Google Analytics
Get free and unlimited app analytics

Predictions
Smart user segmentation based on predicted behavior

A/B Testing BETA
Optimize your app experience through experimentation

Cloud Messaging
Send targeted messages and notifications

Remote Config
Modify your app without deploying a new version

Dynamic Links

Why use Firebase?

So… You have an Idea For An App…

What people think…

Create an android app? what's
the big deal??

Idea For An App

In Reality

Web app


```
01 <HTML>
02 <BODY>
03 <HEADER>
04 </HEADER>
```

Android

iOS

backend

In Reality

❑ That's a lot to learn

❑ A lot of code

❑ A lot of concerns

❑ A lot of resources

❑ A lot of maintenance

❑ And the most dangerous of all – a lot of unknowns

And What About…

Infrastructure

Scalability

Security

Reporting

Analytics

Monetization

Pricing

Testing

Authentication

Enter The New Firebase

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Analytics

References

https://console.firebase.google.com/

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