

Mobile Application Development

Produced
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Android & Firebase

Firebase Integration





Agenda

- ❑ 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
- ❑ CoffeeMate 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 ?
- @^#%\$&!<*>^%(\$....



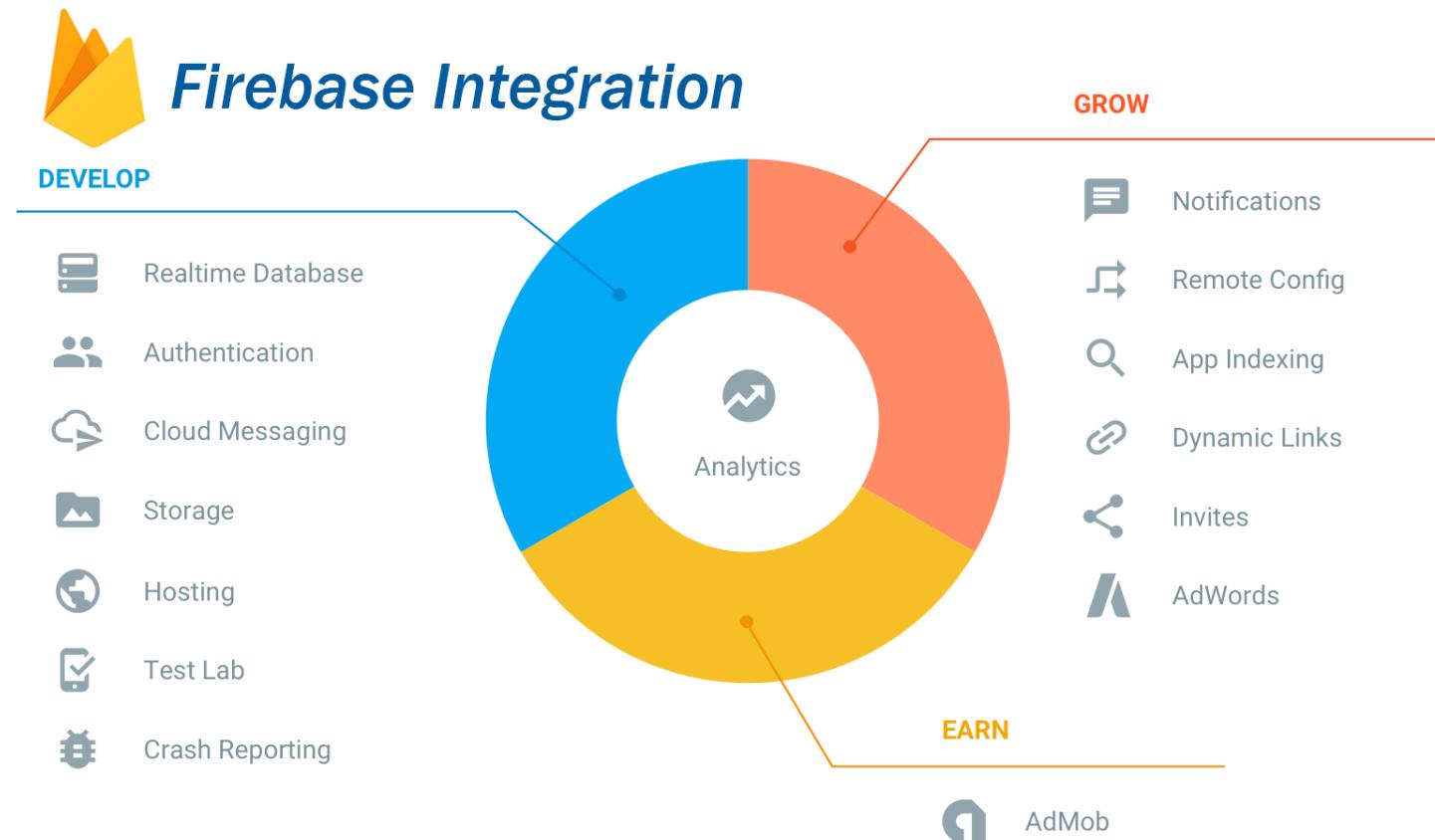


What It Is ... *

❑ A complete BaaS solution that

includes

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



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



So... You have an Idea For An App...

What people think...

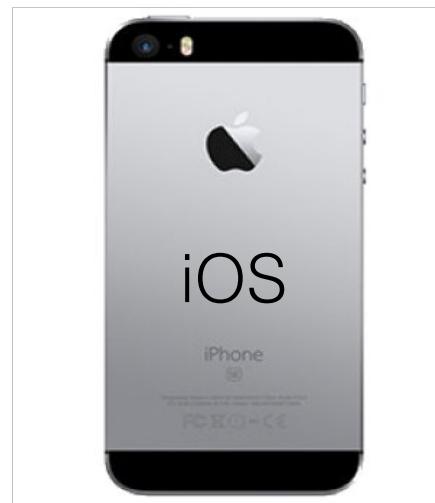
Create an android app
what's the big deal??





Idea For An App *

In Reality



Web app



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

Pricing

Monetization

Testing

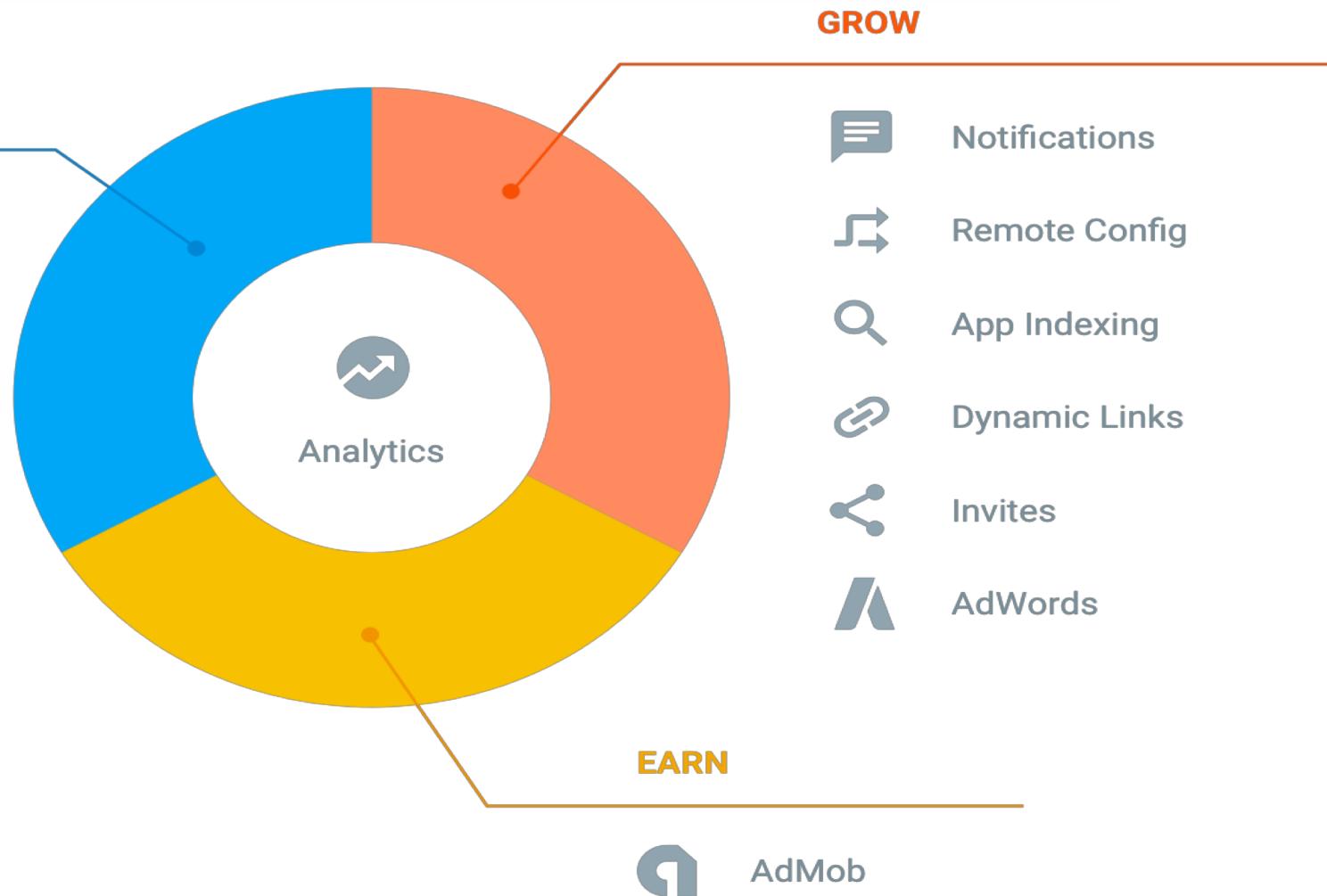
Authentication



Enter The New Firebase

DEVELOP

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





Questions?



Thanks!



A black and white cartoon illustration of a hand with three fingers pointing towards a smiling face. The face has a simple design with two dots for eyes and a wide, curved line for a smile. There are small, dark shapes around the face, possibly representing a halo or clouds. The hand is positioned as if presenting or highlighting the face.