SESSION 7

REACT-FIREBASE

OBJECTIVES



INTRODUCTION TO FIREBASE FIREBASE SERVICES DEPLOY A REACT APP ON FIREBASE

INTRODUCTION TO FIREBASE



Build apps fast, without managing infrastructure
Firebase gives you functionality like analytics, databases, messaging and crash reporting so you can move quickly and focus on your users.

Backed by Google,
trusted by top apps
Firebase is built on
Google infrastructure
and scales
automatically, for even
the largest apps.

One platform, with products that work better together
Firebase products work great individually but share data and insights, so they work even better together.

FIREBASE SERVICES









Build better apps













Realtime Database





Improve app quality









Grow your app



Analytics



Remote Config



Predictions



A/B Testing



Cloud Messaging



Dynamic Links



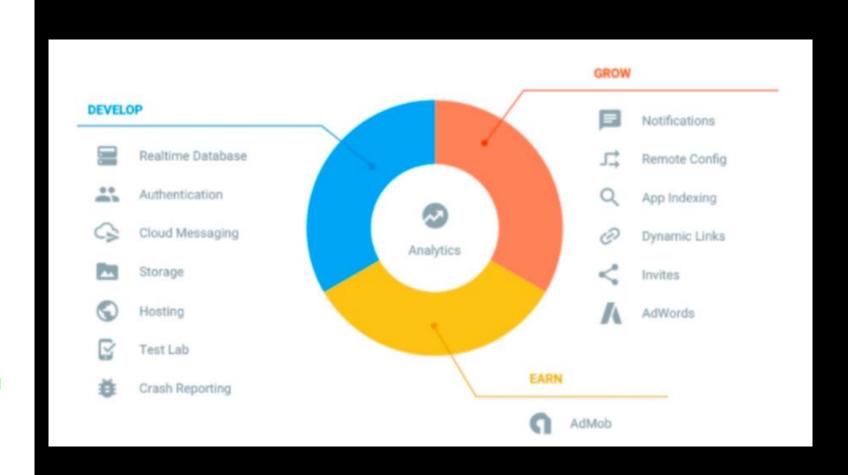
In-app Messaging

FIREBASE SERVICES



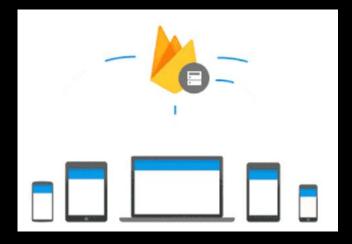
Develop & test your app

- Realtime Database
- Auth
- Test Lab
- Crashlytics
- Cloud Functions
- Firestore
- Cloud Storage
- Performance Monitoring
- Crash Reporting
- Hosting



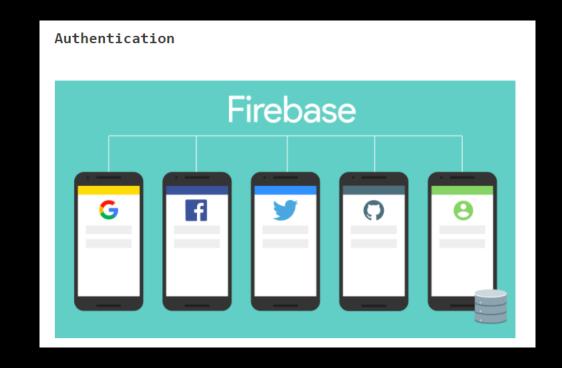
FIREBASE CLOUD





You can authenticate your app's users through the following methods:

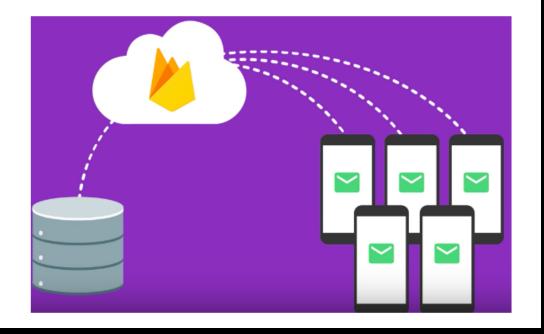
- Email & Password
- Phone numbers
- Google
- Facebook
- Twitter
- & more!

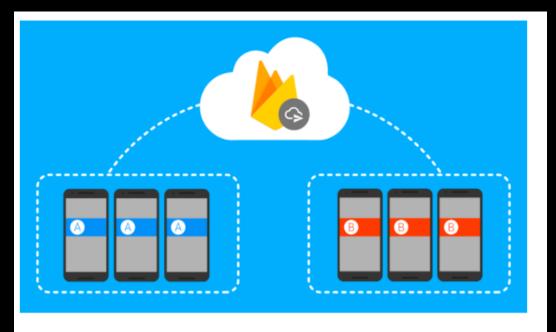


FIREBASE CLOUD MESSAGING



Firebase Cloud Messaging (FCM)





You can also use A/B testing to try out different versions of your notification messages, and then select the one which performs best against your goals.

FIRE STORE

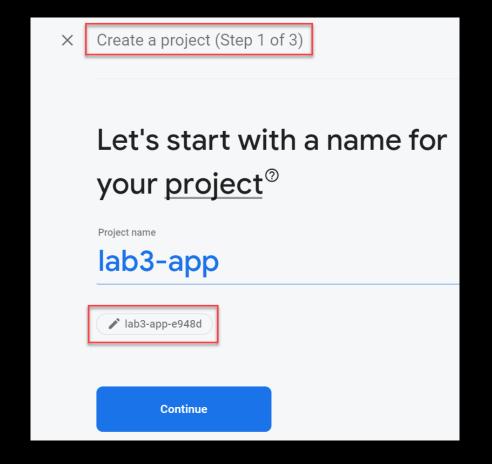


Firestore





PS D:\React2020WorkShop\lab3-component> npm i -g firebase-tools



FIREBASE DATABASE QUERY



FireBase has simplifield the process of retrieving specific data from the database through queries.

Queries are created by chaining together one or more filter methods.

FireBase has 4 ordering functions: orderByKey() orderByChild('child') oerderByValue() orderByPriority()

FIREBASE DATABASE QUERY



You can also use these advanced querying functions to futher restrict data:

startAt('value')
endAt ('value')
equalTo('child_key')
limitToFirst (10)
limitToLast(10)

FIREBASE DATABASE QUERY



```
SELECT * FROM Users where Name === 'GeekyAnts'
```

SELECT * FROM Users LIMIT 10;





Create a project (Step 2 of 3)

Google Analytics for your Firebase project

Google Analytics is a free and unlimited analytics solution that enables targeting, reporting, and more in Firebase Crashlytics, Cloud Messaging, In-App Messaging, Remote Config, A/B Testing, Predictions, and Cloud Functions.

Crash-free users (?)

Free unlimited reporting ③

Event-based Cloud Functions triggers ②

Google Analytics enables:



A/B testing ②



User segmentation & targeting across Firebase products ②



Predicting user behavior ③



Enable Google Analytics for this project Recommended

Previous

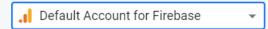
Continue



X Create a project (Step 3 of 3)

Configure Google Analytics

Choose or create a Google Analytics account ③

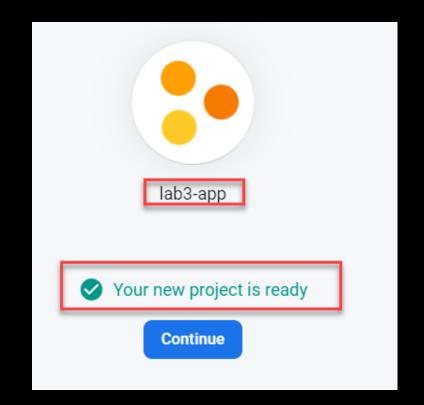


Automatically create a new property in this account

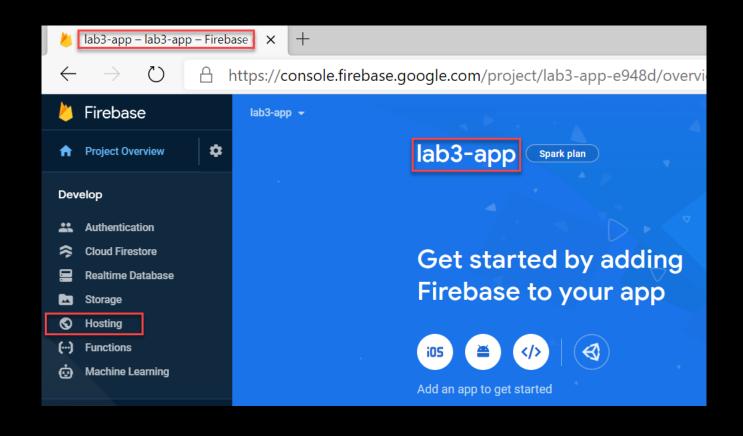
Upon project creation, a new Google Analytics property will be created in your chosen Google Analytics account and linked to your Firebase project. This link will enable data flow between the products. Data exported from your Google Analytics property into Firebase is subject to the Firebase terms of service, while Firebase data imported into Google Analytics is subject to the Google Analytics terms of service. Learn more.

Previous

Create project







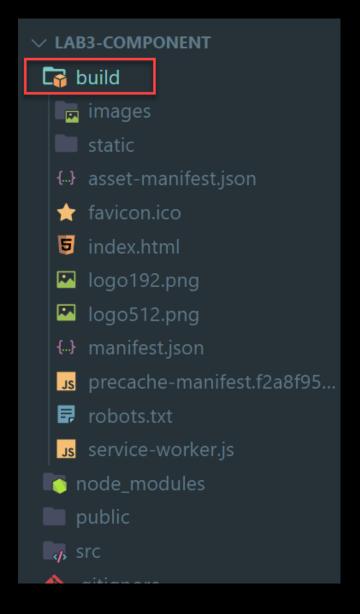


PS D:\React2020WorkShop\lab3-component> npm run build

PS D:\React2020WorkShop\lab3-component> firebase login Already logged in as nguyenngophuoc@gmail.com

PS D:\React2020WorkShop\lab3-component> firebase init







You're about to initialize a Firebase project in this directory:

D:\React2020WorkShop\lab3-component

? Are you ready to proceed? (Y/n)

- ? Please select an option: (Use arrow keys)
- > Use an existing project

Create a new project

Add Firebase to an existing Google Cloud Platform project

Don't set up a default project



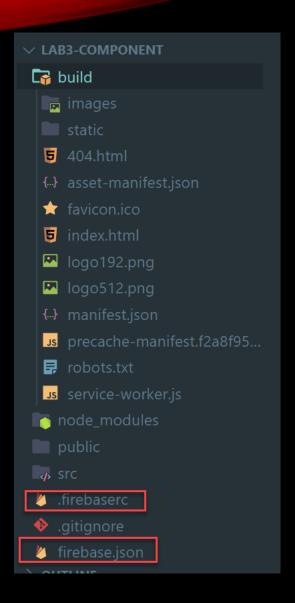
)() Database: Deploy Firebase Realtime Database Rules
 () Firestore: Deploy rules and create indexes for Firestore
 () Functions: Configure and deploy Cloud Functions
 () Hosting: Configure and deploy Firebase Hosting sites
 () Storage: Deploy Cloud Storage security rules
 () Emulators: Set up local emulators for Firebase features
 () Remote Config: Get, deploy, and rollback configurations for R
 (Move up and down to reveal more choices)



```
> demo8-d713b (demo8)
   fir-deploy-fdff4 (firebase-deploy)
   fir-react-firebase-2c065 (demo-react-firebase)
   lab3-app-e948d (lab3-app)
   movie-app-bdbd5 (movie-app)
   movielist-app-9c3fb (movielist-app)
   react-firebase-demo-da652 (React-FireBase-Demo)
(Move up and down to reveal more choices)
```

? What do you want to use as your public directory? (public)





PS D:\React2020WorkShop\lab3-component> firebase deploy

- i Writing configuration info to firebase.json...
- i Writing project information to .firebaserc...
- + Firebase initialization complete!
- PS D:\React2020WorkShop\lab3-component>



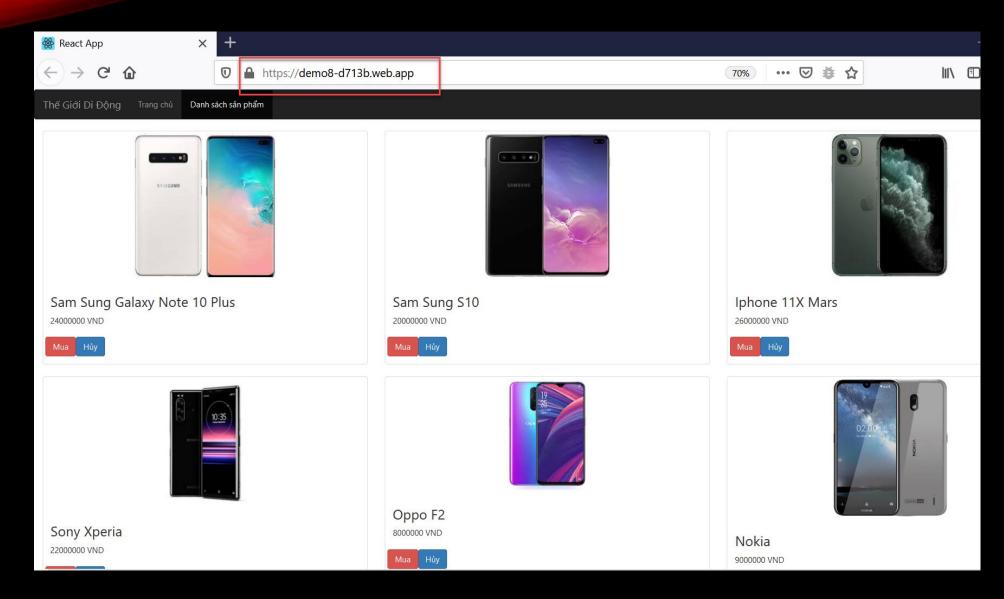
```
? What do you want to use as your public directory? build
? Configure as a single-page app (rewrite all urls to /index.html)
? No
+ Wrote build/404.html
? File build/index.html already exists. Overwrite? (y/N)
```

+ hosting[demo8-d713b]: release complete

+ Deploy complete!

Project Console: https://console.firebase.google.com/project/demo8
-d713b/overview
Hosting URL: https://demo8-d713b.web.app
PS D:\React2020WorkShop\lab3-component>





THE END