

Front-End Development



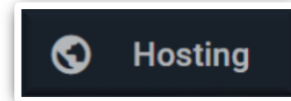
React & Firebase

Deploy React App to Firebase Host

#1 How to Deploy React Project to Firebase Hosting



Firebase



Firebase Hosting provides fast and secure static hosting for your web app.

Firebase Hosting is production-grade web content hosting for developers. With Hosting, you can quickly and easily deploy web apps and static content to a global content-delivery network (CDN) with a single command.

<https://linyoa-37d9d.firebaseio.com/>



Selamat Datang!

Tes deploy React App ke Firebase Hosting!

#1 Create/Prepare Your React App

- Install create-react-app utility globally on your PC (if you have not done yet before)

```
$ npm install -g create-react-app
```

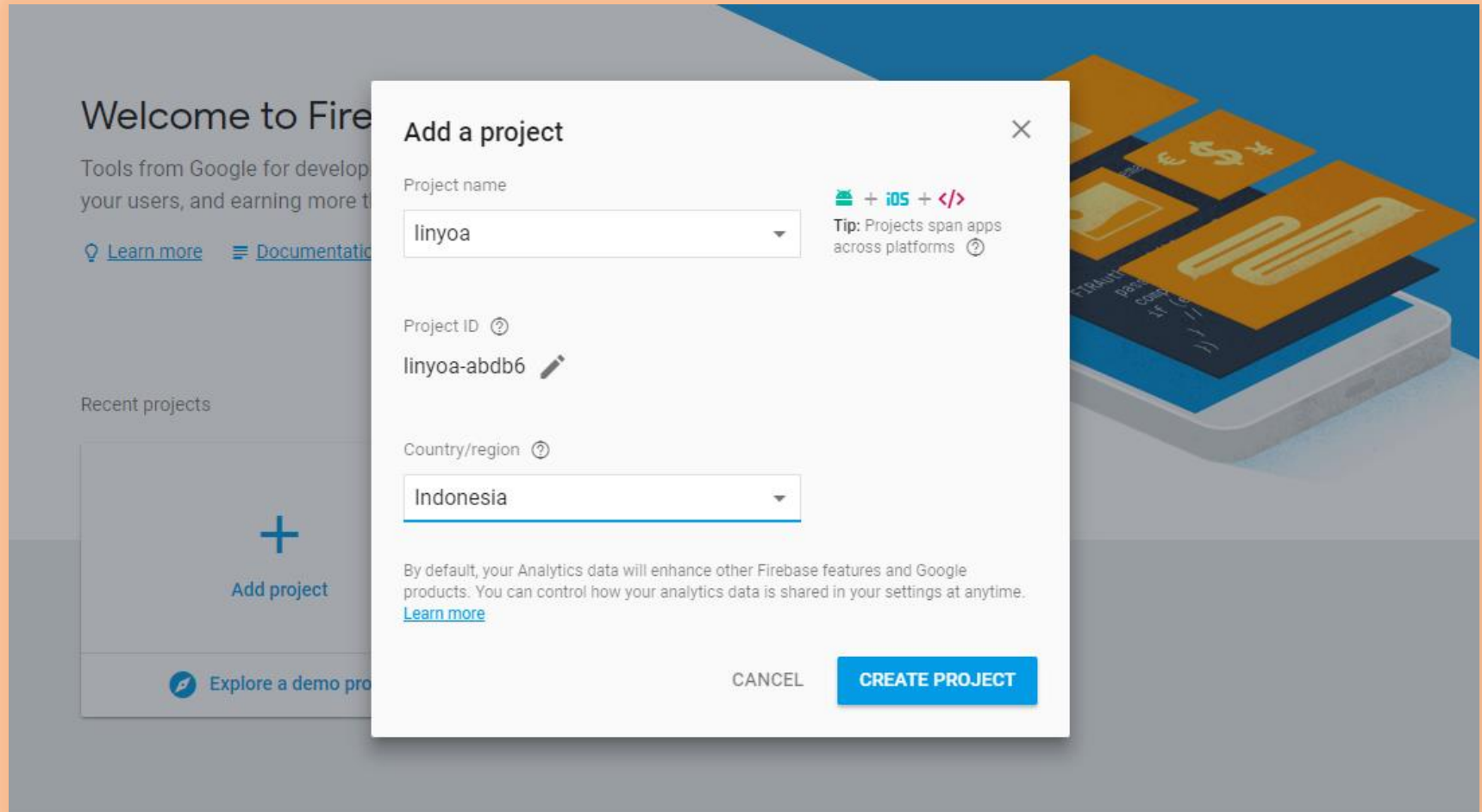
- Create a new react app or prepare yours

```
$ create-react-app linyoa  
$ cd linyoa
```

- Make sure that it runs successfully

```
$ npm start  
$ npm run build
```

#2 Create Firebase Project



#3 Setup Firebase CLI

■ Install Firebase CLI

```
$ npm install -g firebase-tools
```

■ Login to your Firebase account

```
$ firebase login
```

Woohoo!

Firebase CLI Login Successful

You are logged in to the Firebase Command-Line interface. You can immediately close this window and continue using the CLI.

#4 Firebase initialization

■ Firebase initialization

```
$ firebase init
```

- ★ ? Are you ready to proceed? (Y/n) **y**
- ★ ? Which Firebase CLI features do you want to setup for this folder?
Press Space to select features, then Enter to confirm your choices.
(Press <space> to select)
>(*) 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
- ★ ? Select a default Firebase project for this directory:
 [don't setup a default project]
 > linyoa (linyoa-37d9d)
 [create a new project]

- ★ ? What file should be used for Database Rules?
(database.rules.json)
- ★ ? What do you want to use as your public directory?
(public)
build
- ★ ? Configure as a single-page app (rewrite all urls
to /index.html)? (y/N)
y
- ★ ? File build/index.html already exists. Overwrite?
(y/N)
n
- ★ Firebase initialization complete!

#5 Deploy!

■ Deploy to Firebase Hosting!

```
$ firebase deploy
```



```
=== Deploying to 'linyoa-37d9d'...
```

```
i  deploying database, hosting
i  database: checking rules syntax...
+  database: rules syntax for database linyoa-37d9d is valid
i  hosting: preparing build directory for upload...
+  hosting: 10 files uploaded successfully
i  database: releasing rules...
+  database: rules for database linyoa-37d9d released
    successfully
```



```
+  Deploy complete!
```

Project Console:

<https://console.firebase.google.com/project/linyoa-37d9d/overview>

Hosting URL: <https://linyoa-37d9d.firebaseio.com>

<https://linyoa-37d9d.firebaseio.com/>



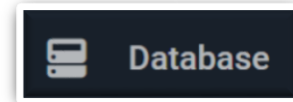
Selamat Datang!

Tes deploy React App ke Firebase Hosting!

#2 How to Connect React Project to Firebase Database



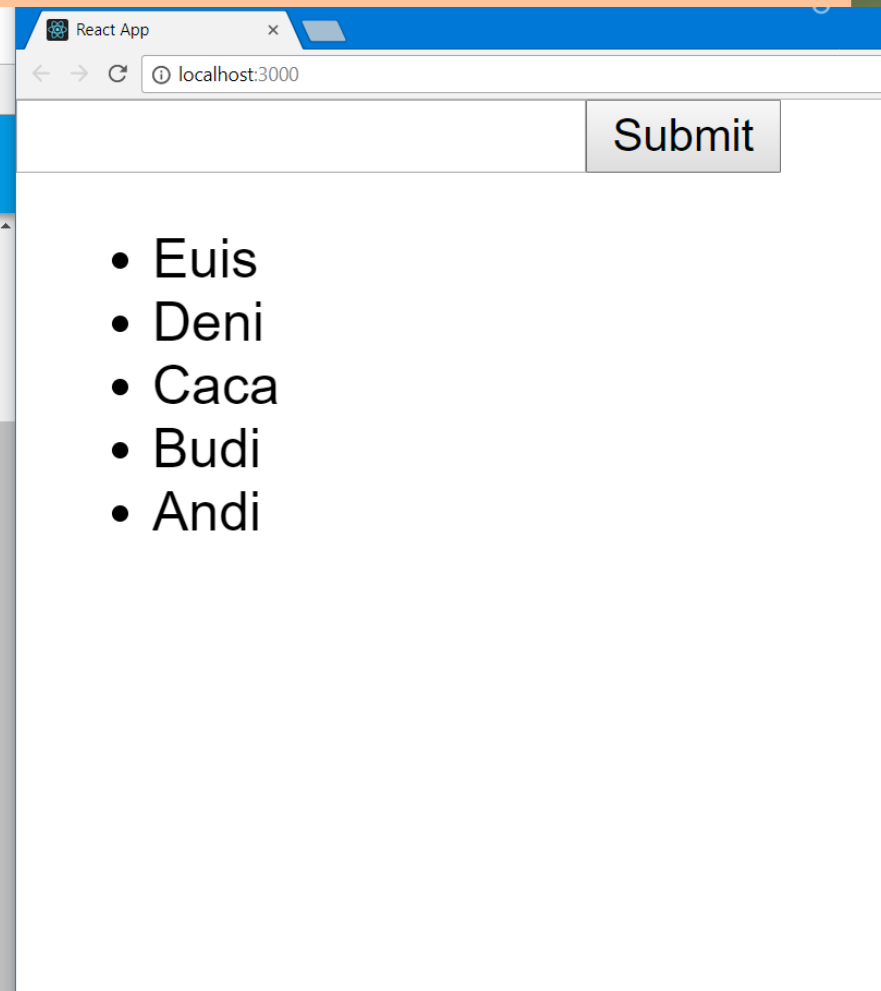
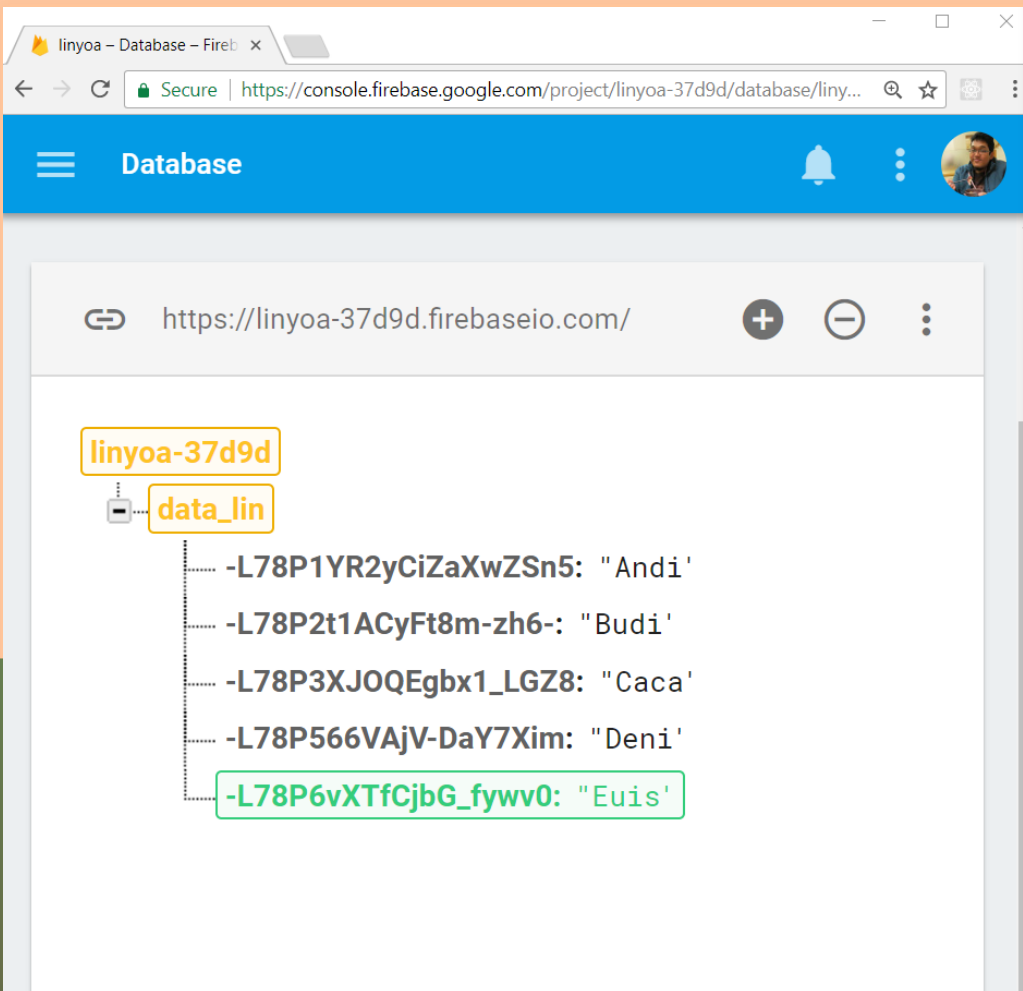
Firebase



Firestore is a cloud-hosted database. Data is stored as JSON and synchronized in realtime to every client.

When you build cross-platform apps with our iOS, Android, and JavaScript SDKs, all of your clients share one Realtime Database instance and automatically receive updates with the newest data.

React & Firebase Database



#1 Setup Firebase Database

- On your project dir, install Firebase Package!

```
$ npm install firebase --save
```

- On Firebase Database project, click **Project Overview** → **Add Firebase to Your Web App** then copy its code.

Add Firebase to your web app

×

Copy and paste the snippet below at the bottom of your HTML, before other script tags.

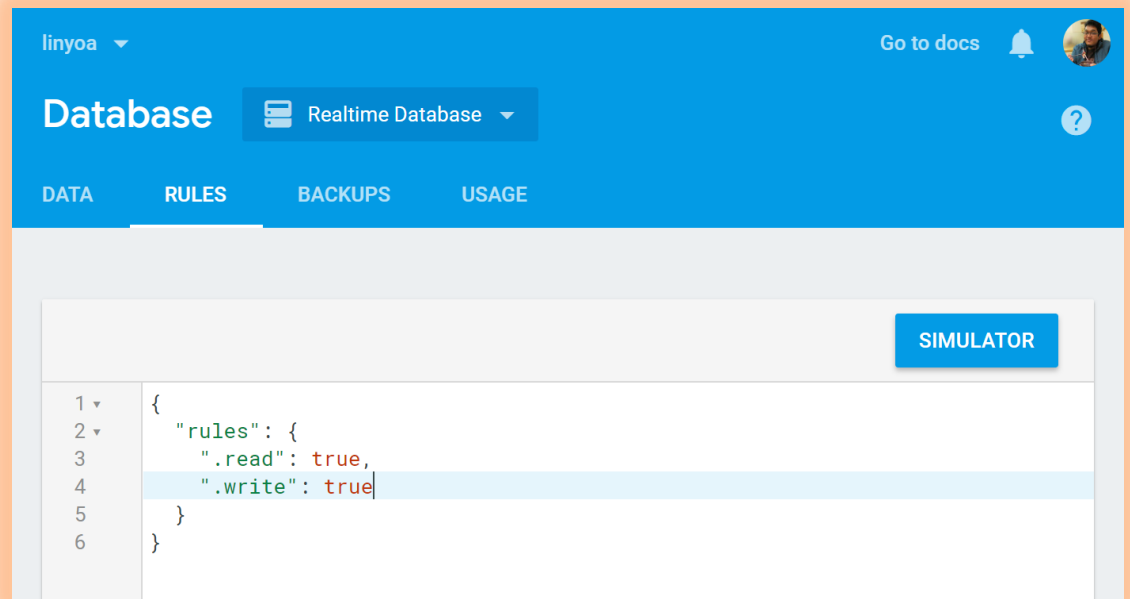
```
<script src="https://www.gstatic.com/firebasejs/4.11.0/firebase.js"></script>
<script>
  // Initialize Firebase
  var config = {
    apiKey: "AIzaSyAtQf_vMPce7JTfYQesg2isg8pZftJwIII",
    authDomain: "linarya-37d9d.firebaseio.com",
    databaseURL: "https://linarya-37d9d.firebaseio.com",
    projectId: "linarya-37d9d",
    storageBucket: "linarya-37d9d.appspot.com",
    messagingSenderId: "922933748183"
  };
  firebase.initializeApp(config);
</script>
```

COPY

#1 Setup Firebase Database

- On Firebase Database rules (or on JSON file *database.rules.json*), set all its value to *true*:

```
{  
  "rules": {  
    ".read": true,  
    ".write": true  
  }  
}
```




```
import firebase from 'firebase';

var config = {
  apiKey: "a1b2c3d4e5f6g7h8i9j0",
  authDomain: "linyoa-37d9d.firebaseio.com",
  databaseURL: "https://linyoa-37d9d.firebaseio.com",
  projectId: "linyoa-37d9d",
  storageBucket: "linyoa-37d9d.appspot.com",
  messagingSenderId: "1234567890"
};

var fire = firebase.initializeApp(config);

export default fire;
```

#3 Set Reference to Firebase Database

```
import React, { Component } from 'react';
import fire from './fire';

class App extends Component {
  constructor(props) {
    super(props);
    this.state = { messages: [] };
  }

  componentWillMount(){
    let messagesRef =
    fire.database().ref('data_lin').orderByKey().limitToLast(100);
    messagesRef.on('child_added', snapshot => {
      let message = { text: snapshot.val(), id: snapshot.key };
      this.setState({ messages: [message].concat(this.state.messages)
    });
  })
}
```

```
addMessage(e){
  e.preventDefault();
  fire.database().ref('data_lin').push( this.inputEl.value );
  this.inputEl.value = '';
}
```

```
render() {
  return (
    <form onSubmit={this.addMessage.bind(this)}>
      <input type="text" ref={ el => this.inputEl = el }/>
      <input type="submit"/>
      <ul>
        {
          this.state.messages.map( message => <li
            key={message.id}>{message.text}</li> )
        }
      </ul>
    </form>
  );
}
```

```
export default App;
```

Front-End Development



React & Firebase

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