**Firebase Username and Password for DogEm**

Email: [Fakeemail@test.com](mailto:Fakeemail@test.com)

Password: Password1

**Why use Firebase**

Article: <https://blog.codemagic.io/choosing-the-right-database-for-react-native-app/>

**Firebase Website**: <https://firebase.google.com/>

* Where you can see the Database
  + Go to Console (top right)

**FireBase Authentication Implementation w/ Expo**

Step-by-Step Guide: <https://docs.expo.dev/guides/using-firebase/>

Authentication sub-Guide: <https://firebase.google.com/docs/auth/web/start>

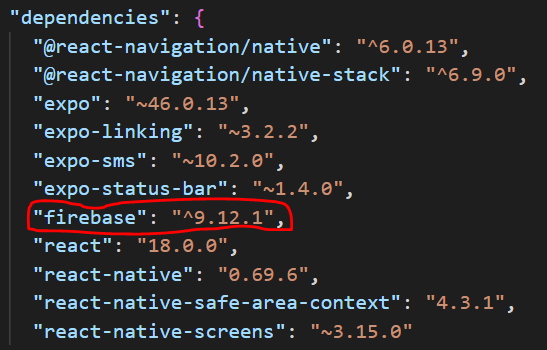
**Videos of implementation:**

Video for Sign Up / Register User Guide: [React Native Authentication with Firebase and Expo in 27 minutes](https://www.youtube.com/watch?v=ql4J6SpLXZA)

Video to set up Sign In / Login Page:

[React Native Authentication with Firebase and Expo](https://www.youtube.com/watch?v=LrzcqnUcTX8&t=1398s)

[React Native, Firebase v9, authentication and firestore](https://www.youtube.com/watch?v=20TSEoJkg5k&t=766s)

* NOTE: Do not follow the video step by step. Simply use as a small guide to give you an idea of incorporating firebase into VSCode alongside the guide.
* For Example: I’m using the most recent version of firebase

Firebase Imports for VSCode:

<https://firebase.google.com/docs/web/setup#available-libraries>

**Database Errors Solution**

* NOTE: The error occurs when you missed a step in the “Step-by-Step Guide” pertaining to creating the metro.config.js file

While trying to resolve module idb from file....

<https://stackoverflow.com/questions/72179070/react-native-bundling-failure-error-message-while-trying-to-resolve-module-i>

**Warning: Async Storage:**

* NOTE: No Solution Found but has links to resources regarding the ongoing issue with Expo and firebase

<https://stackoverflow.com/questions/55311228/how-to-remove-warning-async-storage-has-been-extracted-from-react-native-core>

\*Possible solution to Async Error\*

* In your Node.js CLI:

expo install @react-native-async-storage/async-storage

* Then in App.js:

import AsyncStorage from '@react-native-async-storage/async-storage';

Reference: [Usage | Async Storage (react-native-async-storage.github.io)](https://react-native-async-storage.github.io/async-storage/docs/usage)

Implementing error if email is already in use or if email is invalid:

<https://rnfirebase.io/auth/usage>

Requiring Registration Fields:

<https://aboutreact.com/react-native-check-textinput-is-empty-or-not/>

**Firestore Database**

CRUD Data Docs From DB: <https://firebase.google.com/docs/firestore/quickstart>

Video Guide for CRUB DB: <https://www.youtube.com/watch?v=jCY6DH8F4oc&t=1845s>

* NOTE: There is no way to check for duplicates in the entire collection in security rules, as that would require Cloud Firestore to read all documents in the collection.

Creating user profile page:

<https://firebase.google.com/docs/auth/web/manage-users>

**OTHER:**

Auth Flow with React Navigation:

[Authentication flows | React Navigation](https://reactnavigation.org/docs/auth-flow/)

Example template with Expo and Firebase (outdated dependencies):

[react-native-expo-template/template-with-firebase-auth-flow at master · codingki/react-native-expo-template · GitHub](https://github.com/codingki/react-native-expo-template/tree/master/template-with-firebase-auth-flow)