



What we did:

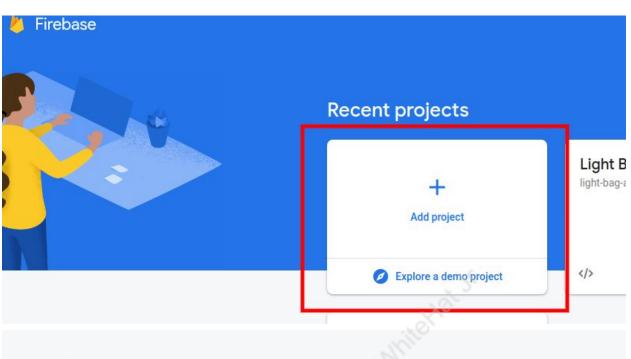
- Connected the React Native Application to the Realtime database.
- Created timestamp for the button presses.

How we did it:

Connecting our React Native application to firebase: We created a new Realtime database called "Wireless Buzzer".







Let's start with a name for your project

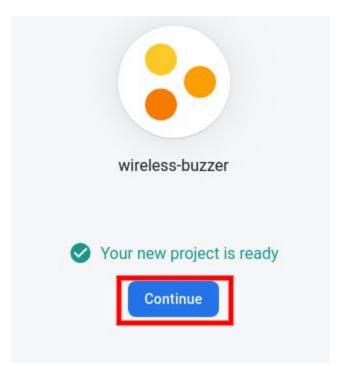




Google Analytics for your Firebase project Google Analytics is a free and unlimited analytics solution that enables targeting, reporting, and more in Firebase Crashlytics, Cloud Messaging, In-App Messaging, Remote Config, A/B Testing, Predictions, and Cloud Functions. Google Analytics enables: Crash-free users ② A/B testing ② User segmentation & targeting across Event-based Cloud Functions triggers ② Firebase products ② Free unlimited reporting ② Predicting user behavior ② Enable Google Analytics for this project Recommended **Previous** Continue

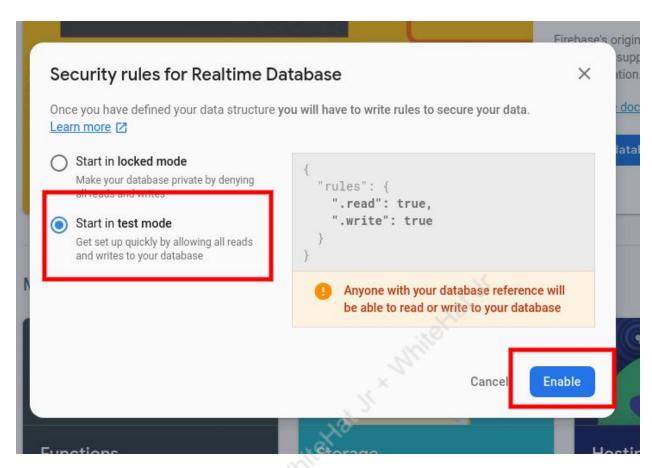
Choose or create a Google Analytics account (2) I pefault Account for Firebase Upon project creation, a new Google Analytics property will be created in your chosen Google Analytics account and linked to your Firebase project. This link will enable data flow between the products. Data exported from your 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







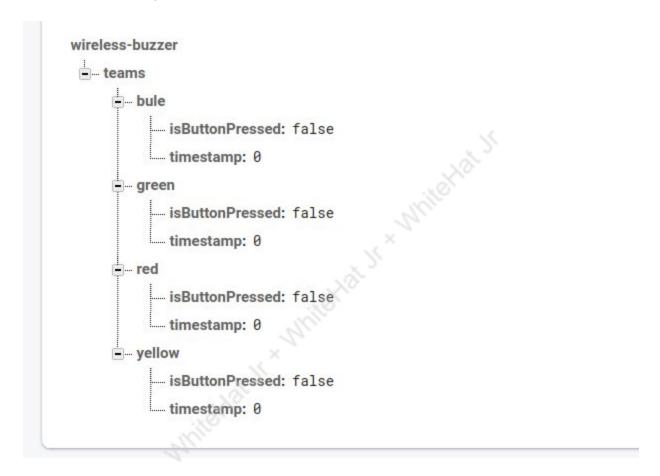






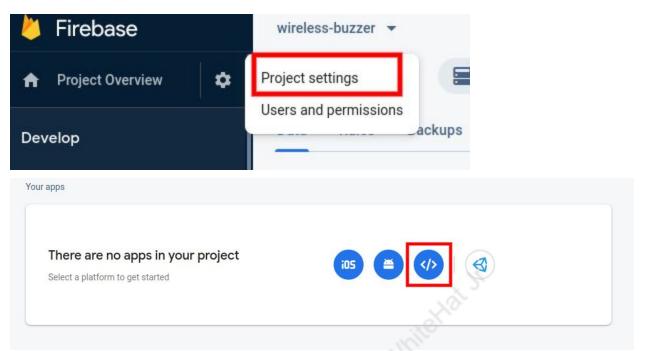
Creating Data fields:

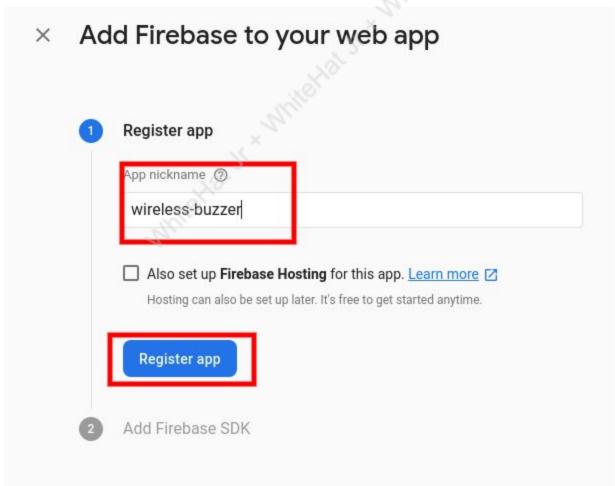
We have a data field called teams. Inside teams, we will have the teams - red, green, blue and yellow. For each team, we are going to have two fields - 'isButtonPressed' and 'timestamp'. Initially 'isButtonPressed' is going to have the value of "false". Whenever the team button is pressed, this value will turn to "true". 'timestamp' will capture the time at which the button is pressed. It will contain a default value of 0.



We registered our react native app to use the database.







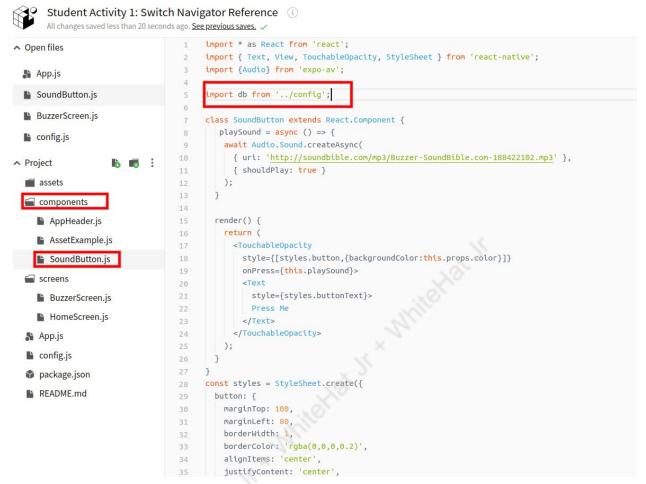
create a new file called "config.js" in our application folder.



```
import firebase from 'firebase';
▲ Open files
                                    2
                                        const firebaseConfig = {
 & App.js
                                           apiKey: "ATLOS, BOKOVIO)
  config.js
                                           authDomain: "wireless-buzzer.firebaseapp.com",
                                          databaseURL: "https://wireless-buzzer.firebaseio.com",
▲ Project
                    b 6 :
                                           projectId: "wireless-buzzer",
                                           storageBucket: "wireless-buzzer.appspot.com",
  assets
                                          messagingSenderId: "919612008593",
                                    9
                                   10
                                           appId: "1:919612008593:web:25202090e7829815aeb730",
  components
                                           measurementId: "G-BT3JVLR78K"
  screens
                                        };
  App.js
                                   14
                                         // Initialize Firebase
  config.js
                                         firebase.initializeApp(firebaseConfig);
                                   16
  package.json
                                   17
                                        export default firebase.database()
  README.md
     Add firebase to package.json?
                                    ADD CTRL+↔
                                                 CANCEL
 ✓ No errors
```



import the firebase.database() as db from config.js file inside 'SoundButton.js'.



We wrote a function called 'isButtonPressed()' which takes teamColor as an input(argument).

This function should connect to the database and update the 'isButtonPressed' field in our database from "false" to "true".



```
Student Activity 1: Switch Navigator Reference (i)
                                                                                                                                      Q Search Run
       All changes saved half a minute ago. See previous saves.
                                        import * as React from 'react';
▲ Open files
                                         import { Text, View, TouchableOpacity, StyleSheet } from 'react-native';
                                        import {Audio} from 'expo-av';
 App.js
  SoundButton.js
                                         import db from '../config';
▲ Project
                    lb i€ :
                                         class SoundButton extends React.Component {
                                           playSound = async () => {
  assets
                                             await Audio.Sound.createAsync(
                                   10
                                              { uri: \frac{http://soundbible.com/mp3/Buzzer-SoundBible.com-188422102.mp3'}{},
  components
                                               { shouldPlay: true }
     AppHeader.js
                                            );
    AssetExample.is
                                   14
   SoundButton.js
                                           isButtonPressed(buttonColor){
                                             var team = db.ref('teams/' + buttonColor + "/")
                                   16
                                             team.update({
    BuzzerScreen.is
                                   18
                                                 "isButtonPressed" : true,
                                                 "timestamp" : 0
    HomeScreen.js
  & App.js
  config.js
                                           render() {
  package.json
                                            return (
                                               <TouchableOpacity
```

We created a third function which first calls 'isButtonPressed()' and then calls 'playSound()'.

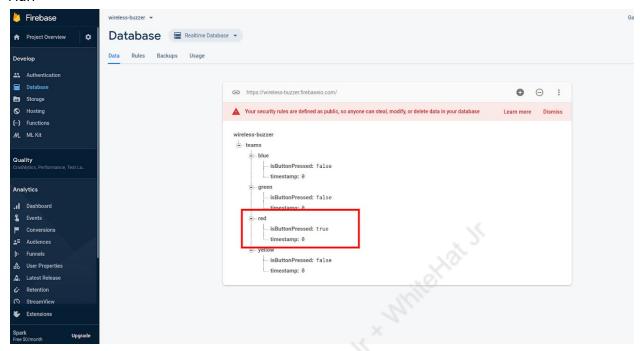
```
Student Activity 1: Switch Navigator Reference (1)
                                                                                                                                      Q Search Ru
       All changes saved 2 minutes ago. See previous saves. 🗸
                                               { uri: 'http://soundbible.com/mp3/Buzzer-SoundBible.com-188422102.mp3' },
Open files
                                               { shouldPlay: true }
                                            );
 App.is
  SoundButton.js
                                           isButtonPressed(buttonColor){

→ Project

                                             var team = db.ref('teams/' + buttonColor + "/")
                                             team.update({
  assets
                                                 "isButtonPressed" : true,
                                                 "timestamp" : 0
  components
                                             })
     AppHeader.js
     AssetExample.is
                                           render() {
    SoundButton.js
                                            return (
                                               <TouchableOpacity
                                                 style={[styles.button.{backgroundColor:this.props.color}]}
     BuzzerScreen.js
                                                 onPress={()=>{
     HomeScreen.is
                                                   var buttonColor = this.props.color
                                                   this.isButtonPressed(buttonColor)
  App.js
                                                   this.playSound()
   config.js
  package.json
                                                   style={styles.buttonText}>
   README.md
                                                 </Text>
                                   36
                                               </TouchableOpacity>
                                   38
                                   46
                                   41
                                           button: {
                                   42
                                             marginTop: 100,
                                   43
                                             marginLeft: 80.
                                             borderWidth: 1,
```



Run

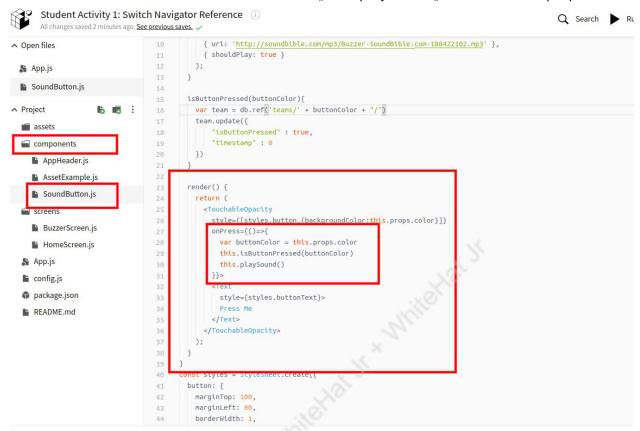


We got a reference to our team in the database and update both isButtonPressed and timeStamp when the button is pressed.





We called both the functions is Button Pressed () and play Sound () inside on Press prop.



What's next?:

In the next class, you will be creating the Quiz Master App.