**Step 1 – Create a new React app (if you don’t already have one) and install Firebase to your project:**

npx create-react-app productivity-app-db

cd productivity-app-db

npm install firebase

Optional: npm start (to get it running in your browser)

**Step 2 – Go to the Firebase console (you need to be signed into your Google account)**

<https://console.firebase.google.com>

**Step 3 – Add Project**

Graphical user interface, application

Description automatically generated

**Step 4 – Name the Project (Mine is productivity-app-db)**

Graphical user interface, text, application, email

Description automatically generated

**Step 5 – Google Analytics is NOT Enabled**

Graphical user interface, text, application

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**Step 6 – (Same page as step 5) Create Project**

Graphical user interface, application

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**Step 7 – Under “Build” in the left-hand sidebar, select “Realtime Database”**

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Description automatically generated with medium confidence

**Step 8 – Create Database**

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**Step 9 - Select the correct region**

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Description automatically generated with medium confidence

**Step 10 – Start in TEST MODE**

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**Step 11 – Go to “Rules” and extend the value.**

The value is a Unix epoch timestamp (in ms). Previously, it was 1670043600000 which corresponds with 12/3/2022. I’m changing it to 1699039129000 which corresponds with 11/3/2023.

Previously:

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Description automatically generated

Now:

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Description automatically generated

**Step 12 – Create a Web App**

Go to “Project Overview” and select “Web”

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**Step 13 – Register app (my app’s nickname is its actual name)**

**\*If you want Firebase hosting for the app, you can also set it up at this time\***

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**Step 14 – After registering, you get the following config info (keep this page open, you’ll paste it into index.js in step 20)**

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**Step 15 – Now open your React app in VS code**

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**Step 16 – Create a new folder named components**

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**Step 17 - Inside of components, create another folder named firebaseConfig**

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**Step 18 – Inside of components, create another folder named crud.**

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**Step 19 – Inside of firebaseConfig, create a new file called index.js**

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**Step 20 – Paste Firebase config info into index.js**

\*Important\* I added the following:

- import {getDatabase} from “firebase/database”;

- function StartFirebase()

- return getDatabase(app)

- export default StartFirebase();

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**Step 21 – In the crud folder, add an index.js file:**

This index.js file will contain the CRUD code.

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With added CRUD code:

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**Step 22 – Move the “components” folder to src:**

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**Step 23 - Modify the App.js file**

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**Step 24 – REVIEW THE SOURCE CODE**

The source code contains information on how the CRUD operations are actually performed on the DB. The file that should be most thoroughly reviewed is index.js in the crud file.