## **🟢 Step-by-Step: Firebase Realtime Database Setup & Use**

### **🔹 Step 1: Firebase Console Open karo**

* Go to:<https://console.firebase.google.com>
* Project open karo (ya naya banao if needed).

### **🔹 Step 2: Realtime Database Create karo**

1. **Left Sidebar** me se:  
   * Click on **Build > Realtime Database**
2. Click **“Create Database”**
3. Select location (e.g., asia-south1)
4. Choose **“Start in test mode”** for development.
5. ✅ Click **Enable**

### **🔐 Optional: Realtime DB Rules for Test Mode**

json

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{

"rules": {

".read": true,

".write": true

}

}

⚠️ Test mode sirf development ke liye. Production me authentication rules lagana zaroori hai.

### **🔹 Step 3: Web App Register karo**

* Dashboard me </> icon (Web) pe click karo
* App nickname daalo
* SDK config milega, use copy karo

### **🔹 Step 4: Firebase SDK in HTML Add karo**

html

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<script src="https://www.gstatic.com/firebasejs/9.22.1/firebase-app-compat.js"></script>

<script src="https://www.gstatic.com/firebasejs/9.22.1/firebase-database-compat.js"></script>

<script>

const firebaseConfig = {

apiKey: "your-key",

authDomain: "your-project-id.firebaseapp.com",

databaseURL: "https://your-project-id-default-rtdb.firebaseio.com",

projectId: "your-project-id",

storageBucket: "your-project-id.appspot.com",

messagingSenderId: "xxx",

appId: "xxx"

};

// Initialize Firebase

firebase.initializeApp(firebaseConfig);

const database = firebase.database();

</script>

### **🔹 Step 5: HTML/CSS Save Karna (Realtime DB me)**

html

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<script>

function saveToFirebase(html, css) {

const newRef = database.ref('webpages').push();

newRef.set({

html: html,

css: css,

timestamp: Date.now()

})

.then(() => {

console.log("Data saved with key:", newRef.key);

})

.catch((error) => {

console.error("Error saving data:", error);

});

}

</script>

✅ Ye webpages naam ka node create karega aur usme unique key ke andar HTML/CSS store karega.

### **🔹 Step 6: HTML/CSS Load Karna**

html

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<script>

function loadFromFirebase(key) {

database.ref('webpages/' + key).once('value')

.then((snapshot) => {

if (snapshot.exists()) {

const data = snapshot.val();

console.log("HTML:", data.html);

console.log("CSS:", data.css);

// Use data with GrapesJS or page

} else {

console.log("No data found");

}

})

.catch((error) => {

console.error("Error loading data:", error);

});

}

</script>

## **✅ Summary**

| **Task** | **Method** |
| --- | --- |
| Create Realtime DB | Build → Realtime Database → Create |
| Initialize Firebase | firebase.database() |
| Save HTML & CSS | database.ref('webpages').push().set({...}) |
| Load HTML & CSS | database.ref('webpages/' + key).once('value') |
| Test Rules (dev only) | .read / .write: true |

***Firebase realtime database tutorial 👇***

<https://www.geeksforgeeks.org/firebase-realtime-database/>

**Tested by me *✅***

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

<meta name="viewport" content="width=device-width, initial-scale=1.0" />

<title>Document</title>

</head>

<body>

<script src="https://www.gstatic.com/firebasejs/9.22.1/firebase-app-compat.js"></script>

<script src="https://www.gstatic.com/firebasejs/9.22.1/firebase-database-compat.js"></script>

<script>

*// Your web app's Firebase configuration*

const firebaseConfig = {

apiKey: "AIzaSyChFo5VmFJxtR0LR0zaD5sTo9C9XP5GAbI",

authDomain: "test-b87b2.firebaseapp.com",

databaseURL:

"https://test-b87b2-default-rtdb.asia-southeast1.firebasedatabase.app",

projectId: "test-b87b2",

storageBucket: "test-b87b2.firebasestorage.app",

messagingSenderId: "141450892142",

appId: "1:141450892142:web:a2232b1ea8e40f9c1be77f",

};

*// Initialize Firebase// Initialize Firebase*

firebase.initializeApp(firebaseConfig);

const database = firebase.database();

console.log(database);

const username = "Mohit";

*// write data on page load ✅*

firebase

.database()

.ref("users/" + Date.now())

.set({

username: username,

})

.then(() => {

*// alert("Data saved successfully!");*

})

.catch((*error*) => {

console.error("Error saving data:", *error*);

});

*// read data on page load ✅*

const userRef = firebase.database().ref("users/");

userRef.once("value").then((*snapshot*) => {

const data = *snapshot*.val();

console.log(data);

});

</script>

</body>

</html>