

Firestore - Quick Guide

Advertisements



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Firestore - Overview

As per official Firestore documentation –

Firestore can power your app's backend, including data storage, user authentication, static hosting, and more. Focus on creating extraordinary user experiences. We will take care of the rest. Build cross-platform native mobile and web apps with our Android, iOS, and JavaScript SDKs. You can also connect Firestore to your existing backend using our server-side libraries or our REST API.

Firestore Features

Real-time Database – Firestore supports JSON data and all users connected to it receive live updates after every change.

Authentication – We can use anonymous, password or different social authentications.

Hosting – The applications can be deployed over secured connection to Firestore servers.

Firestore Advantages

It is simple and user friendly. No need for complicated configuration.

The data is real-time, which means that every change will automatically update connected clients.

Firestore offers simple control dashboard.

There are a number of useful services to choose.

Firestore Limitations

Firestore free plan is limited to 50 Connections and 100 MB of storage.

In the next chapter, we will discuss the environment setup of Firestore.

Firestore - Environment Setup

In this chapter, we will show you how to add Firestore to the existing application. We will need **NodeJS**. Check the link from the following table, if you do not have it already.

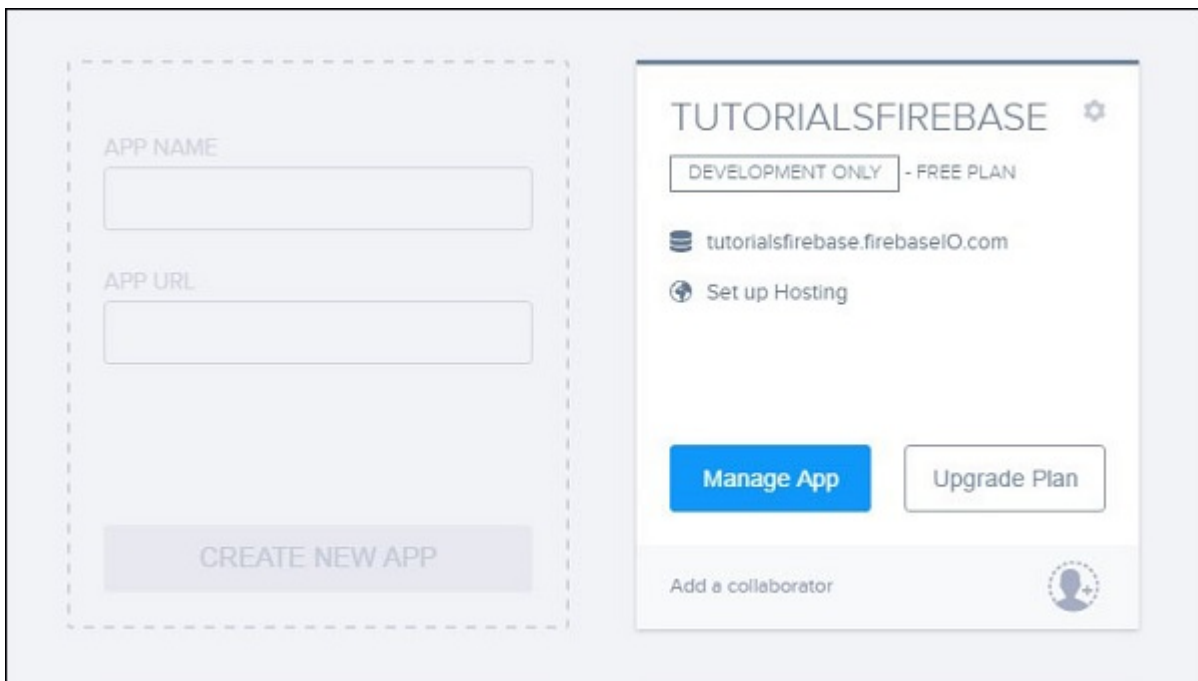
Sr.No.	Software & Description
1	NodeJS and NPM NodeJS is the platform needed for Firestore development. Checkout our NodeJS Environment Setup .

Step 1 - Create Firestore Account

You can create a Firestore account here .

Step 2 - Create Firestore App

You can create new app from the dashboard page. The following image shows the app we created. We can click the **Manage App** button to enter the app.



Step 3a - Create basic HTML/js App

You just need to create a folder where your app will be placed. Inside that folder, we will need **index.html** and **index.js** files. We will add Firebase to the header of our app.

index.html

```
<html>
  <head>
    <script src = "https://cdn.firebase.com/js/client/2.4.2/firebase.js"></script>
    <script type = "text/javascript" src = "index.js"></script>
  </head>

  <body>

  </body>
</html>
```

Step 3b - Use NPM or Bower

If you want to use your existing app, you can use Firebase NPM or Bowers packages. Run one of the following command from your apps root folder.

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

```
bower install firebase
```

Firebase - Data

The Firebase data is representing JSON objects. If you open your app from Firebase dashboard, you can add data manually by clicking on the + sign.

We will create a simple data structure. You can check the image below.



In the previous chapter, we connected Firebase to our app. Now, we can log Firebase to the console.

```
console.log(firebase)
```



We can create a reference to our player's collection.

```
var ref = firebase.database().ref('players');  
console.log(ref);
```

We can see the following result in the console.

```
▼ U {w: pf, path: L, n: Ae, Oc: false, then: undefined,} ⓘ index.js:3
  Oc: false
  catch: undefined
  database: {...}
  key: {...}
  ▶ n: Ae
    parent: {...}
  ▼ path: L
    Z: 0
    ▼ o: Array[1]
      0: "players"
      length: 1
      ▶ __proto__: Array[0]
    ▶ __proto__: Object
    ref: {...}
    root: {...}
    then: undefined
    ▶ w: pf
    ▶ __proto__: X
> |
```

Firestore - Arrays

This chapter will explain the Firestore representation of arrays. We will use the same data from the previous chapter.



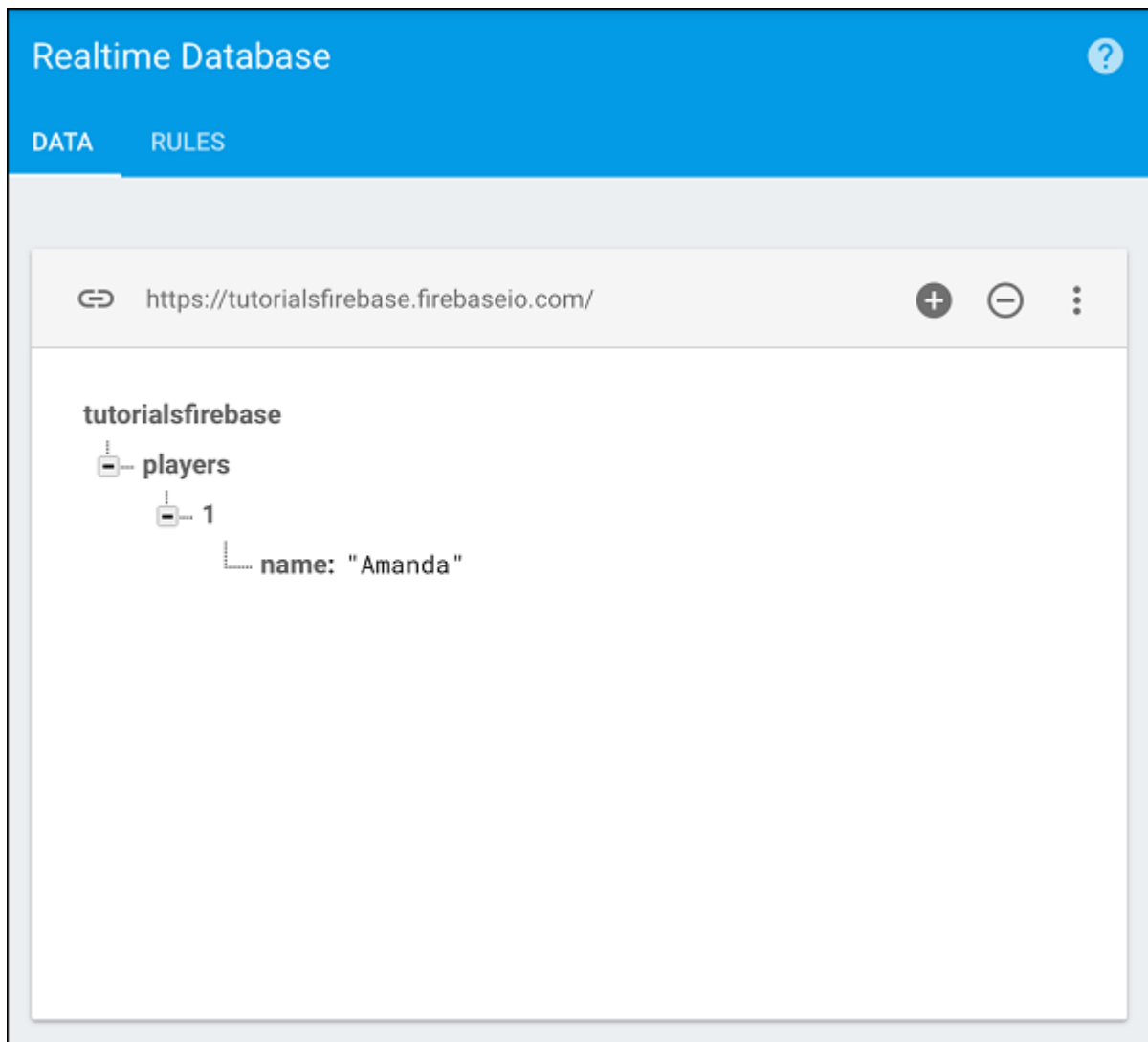
We could create this data by sending the following JSON tree to the player's collection.

```
['john', 'amanda']
```

This is because Firebase does not support Arrays directly, but it creates a list of objects with integers as key names.

The reason for not using arrays is because Firebase acts as a real time database and if a couple of users were to manipulate arrays at the same time, the result could be problematic since array indexes are constantly changing.

The way Firebase handles it, the keys (indexes) will always stay the same. We could delete **john** and **amanda** would still have the key (index) 1.



Firebase - Write Data

In this chapter, we will show you how to save your data to Firebase.

Set

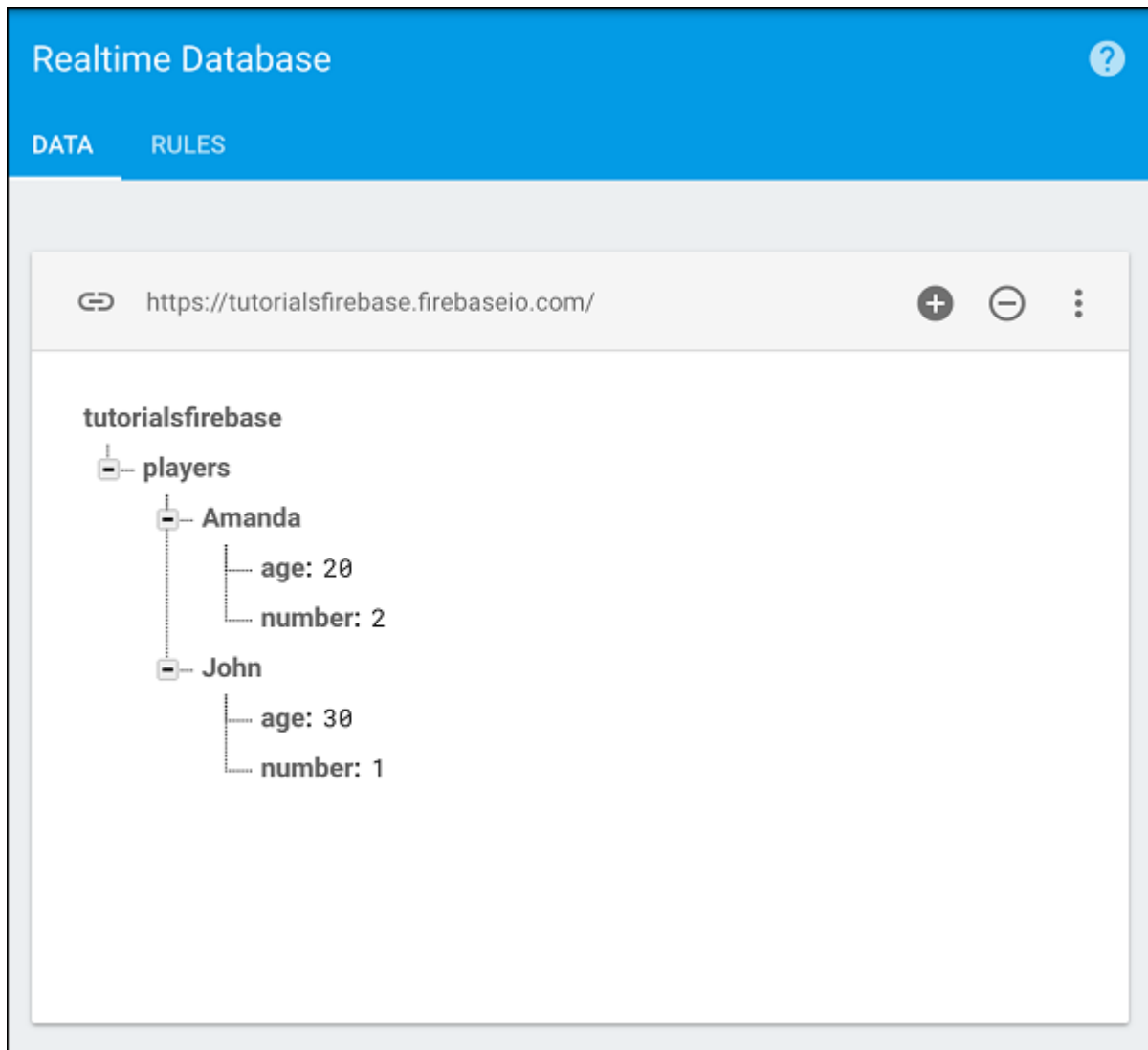
The **set** method will write or replace data on a specified path. Let us create a reference to the player's collection and set two players.

```
var playersRef = firebase.database().ref("players/");
```

```
playersRef.set ({
  John: {
    number: 1,
    age: 30
  },

  Amanda: {
    number: 2,
    age: 20
  }
});
```

We will see the following result.



Update

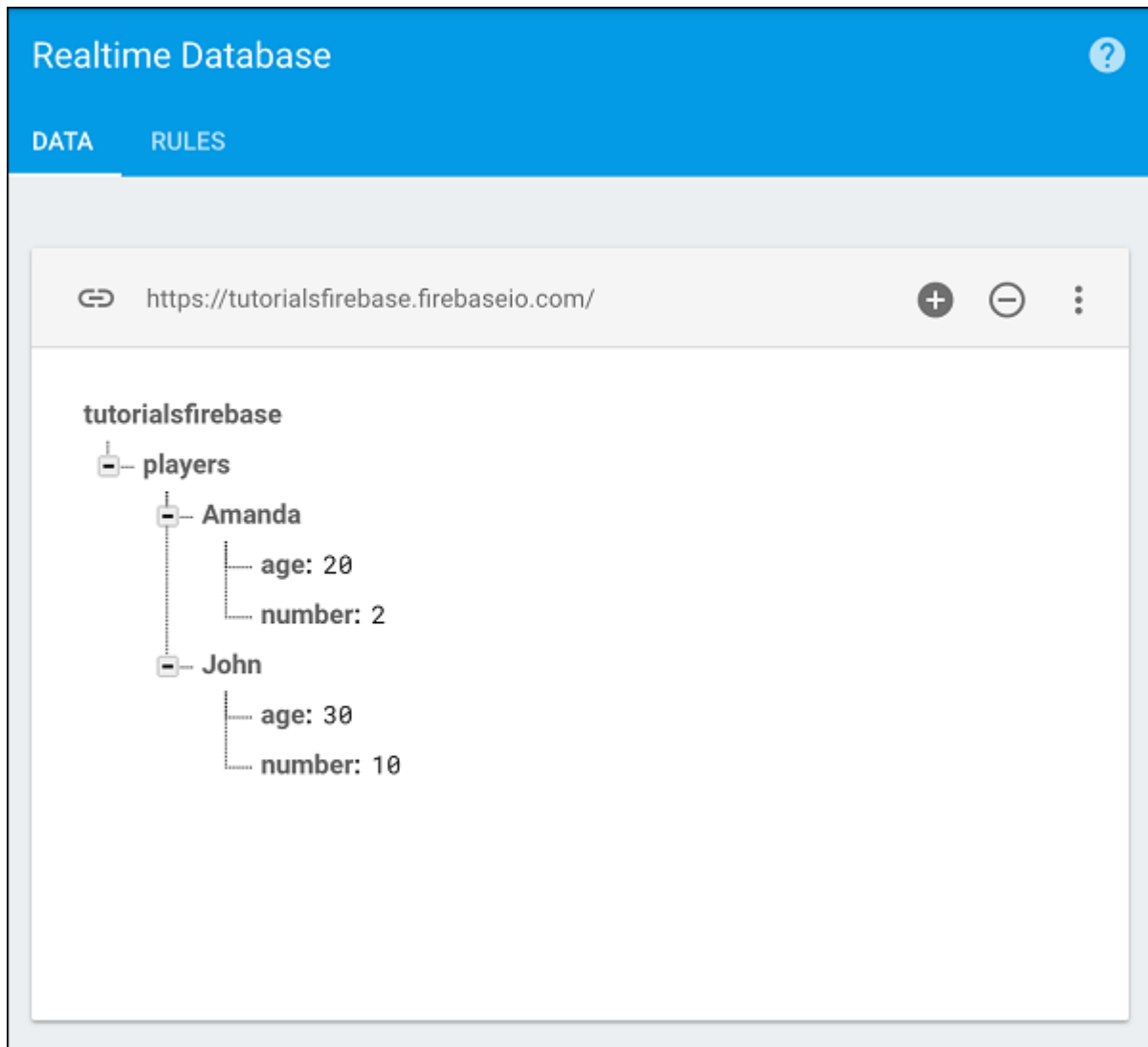
We can update the Firebase data in a similar fashion. Notice how we are using the **players/john** path.

```
var johnRef = firebase.database().ref("players/John");

johnRef.update ({
```

```
"number": 10  
});
```

When we refresh our app, we can see that the Firebase data is updating.



Firestore - Write List Data

In our last chapter, we showed you how to write data in Firestore. Sometimes you need to have a unique identifier for your data. When you want to create unique identifiers for your data, you need to use the push method instead of the set method.

The Push Method

The **push()** method will create a unique id when the data is pushed. If we want to create our players from the previous chapters with a unique id, we could use the code snippet given below.

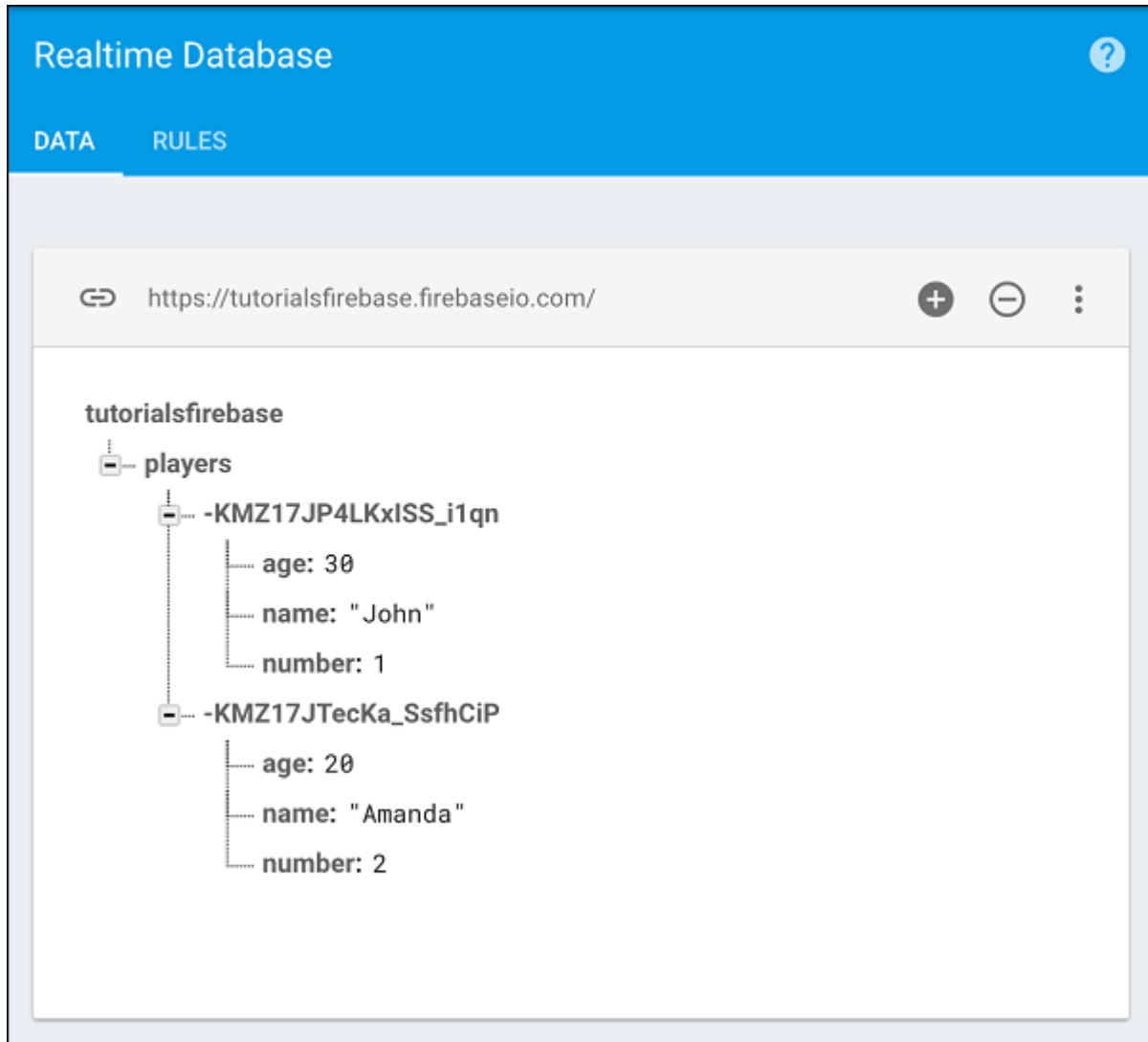
```
var ref = new Firebase('https://tutorialsfirebase.firebaseio.com');  
  
var playersRef = ref.child("players");  
playersRef.push ({
```



```
    name: "John",
    number: 1,
    age: 30
  });

playersRef.push ({
  name: "Amanda",
  number: 2,
  age: 20
});
```

Now our data will look differently. The name will just be a name/value pair like the rest of the properties.



The Key Method

We can get any key from Firebase by using the **key()** method. For example, if we want to get our collection name, we could use the following snippet.

```
var ref = new Firebase('https://tutorialsfirebase.firebaseio.com');

var playersRef = ref.child("players");
```

```
var playersKey = playersRef.key();  
console.log(playersKey);
```

The console will log our collection name (players).

players

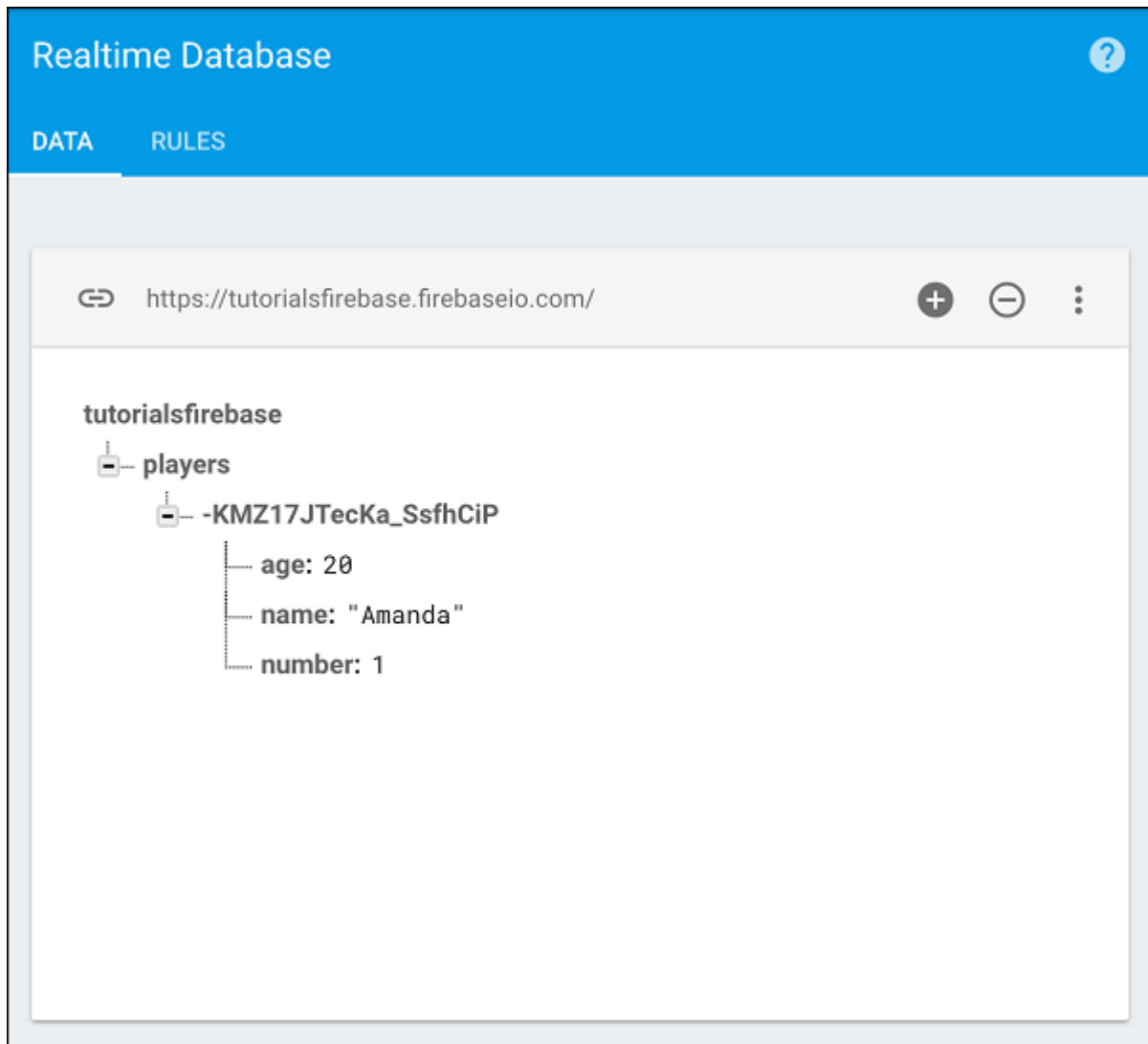
index.js:6

More on this in our next chapters.

Firestore - Write Transactional Data

Transactional data is used when you need to return some data from the database then make some calculation with it and store it back.

Let us say we have one player inside our player list.



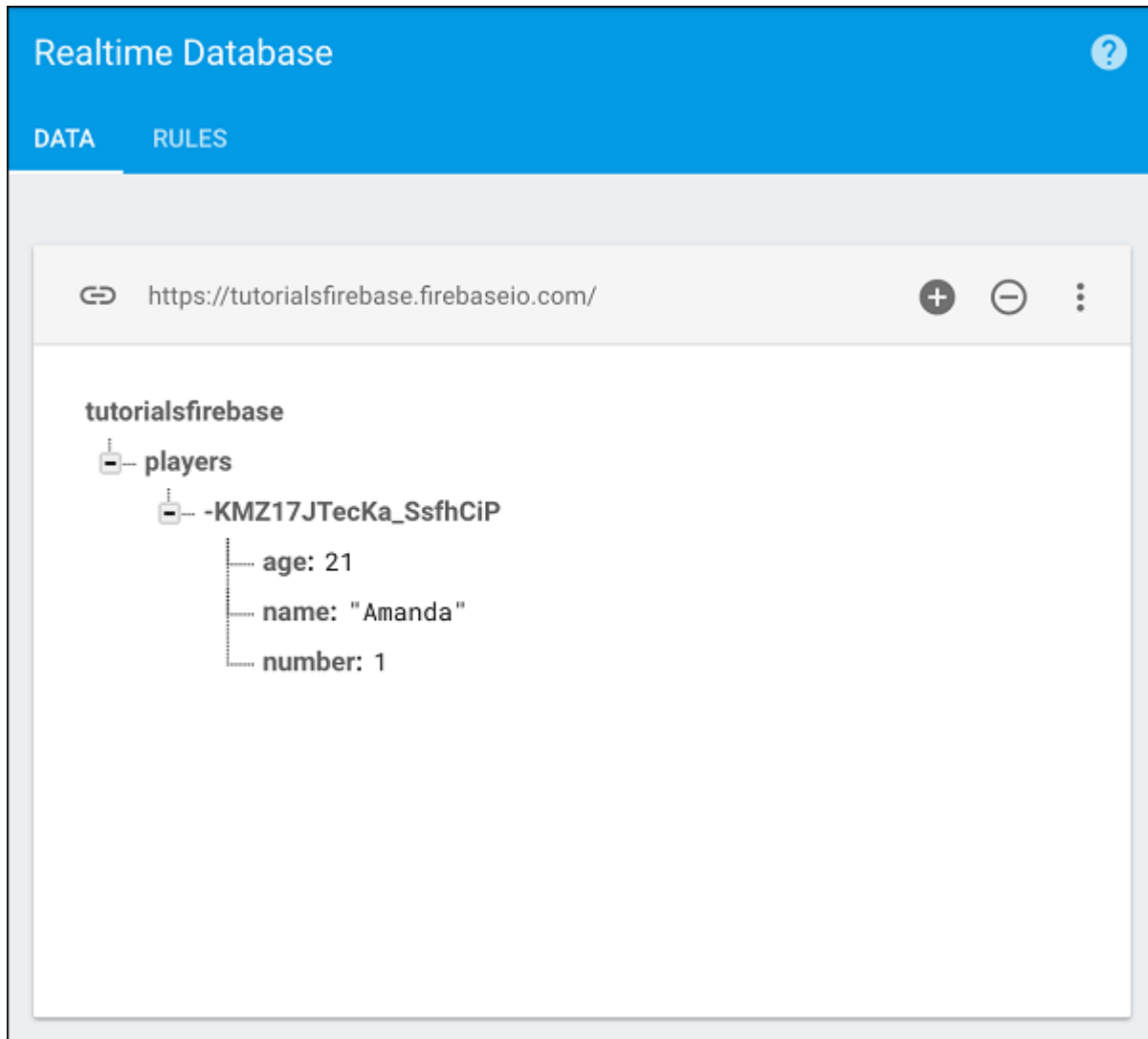
We want to retrieve property, add one year of age and return it back to Firebase.

The **amandaRef** is retrieving the age from the collection and then we can use the transaction method. We will get the current age, add one year and update the collection.

```
var ref = new Firebase('https://tutorialsfirebase.firebaseio.com');  
  
var amandaAgeRef = ref.child("players").child("-KGb1Ls-gEerWbAMMnZC").child('age');
```

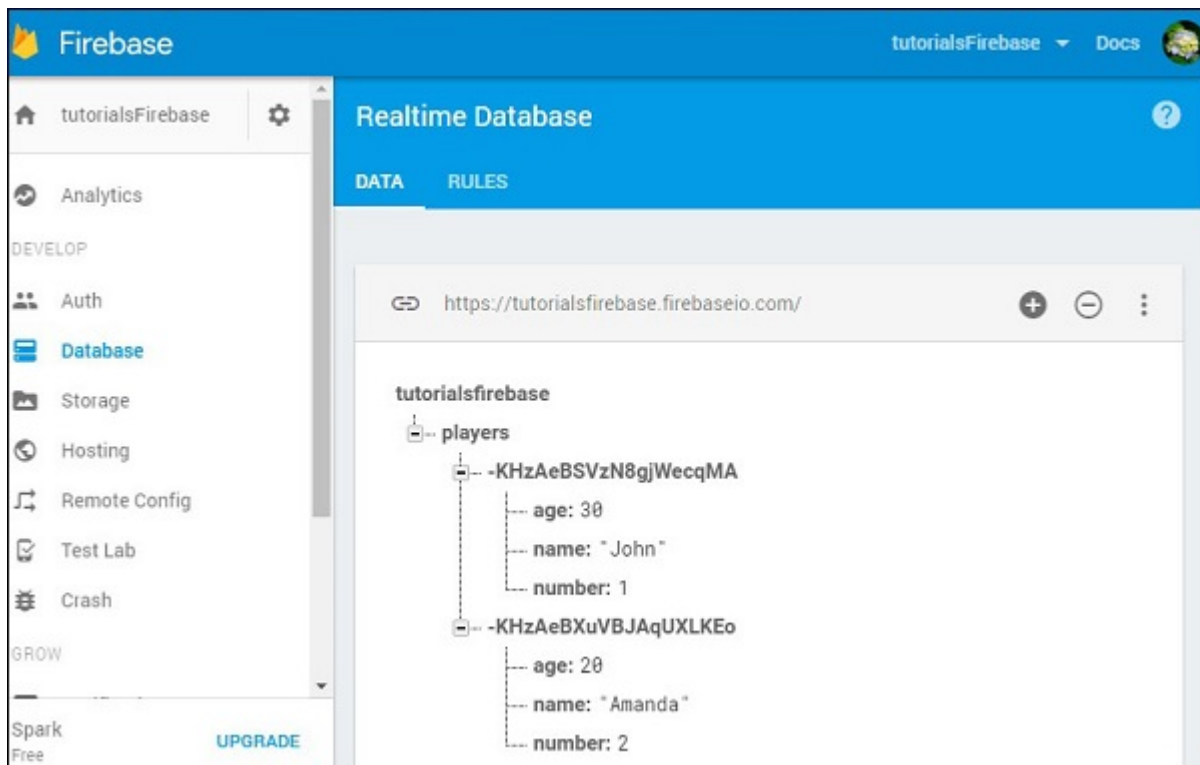
```
amandaAgeRef.transaction(function(currentAge) {  
  return currentAge + 1;  
});
```

If we run this code, we can see that the age value is updated to **21**.



Firestore - Read Data

In this chapter, we will show you how to read Firestore data. The following image shows the data we want to read.



We can use the **on()** method to retrieve data. This method is taking the event type as **"value"** and then retrieves the **snapshot** of the data. When we add **val()** method to the snapshot, we will get the JavaScript representation of the data.

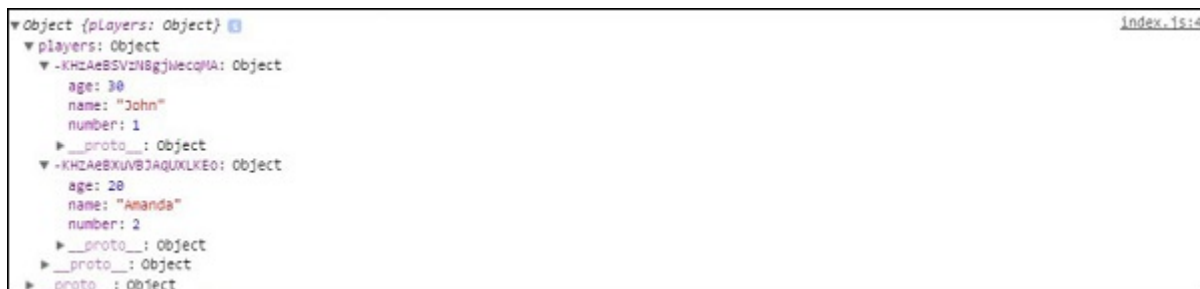
Example

Let us consider the following example.

```
var ref = firebase.database().ref();

ref.on("value", function(snapshot) {
  console.log(snapshot.val());
}, function (error) {
  console.log("Error: " + error.code);
});
```

If we run the following code, our console will show the data.



In our next chapter, we will explain other event types that you can use for reading data.

Firestore - Event Types

Firebase offers several different event types for reading data. Some of the most commonly used ones are described below.

value

The first event type is **value**. We showed you how to use value in our last chapter. This event type will be triggered every time the data changes and it will retrieve all the data including children.

child_added

This event type will be triggered once for every player and every time a new player is added to our data. It is useful for reading list data because we get access of the added player and previous player from the list.

Example

Let us consider the following example.

```
var playersRef = firebase.database().ref("players/");

playersRef.on("child_added", function(data, prevChildKey) {
  var newPlayer = data.val();
  console.log("name: " + newPlayer.name);
  console.log("age: " + newPlayer.age);
  console.log("number: " + newPlayer.number);
  console.log("Previous Player: " + prevChildKey);
});
```

We will get the following result.

name: John	index.js:7
age: 30	index.js:8
number: 1	index.js:9
Previous Player: null	index.js:10
name: Amanda	index.js:7
age: 20	index.js:8
number: 2	index.js:9
Previous Player: -KHZAeBSVzN8gjWecqMA	index.js:10

If we add a new player named Bob, we will get the updated data.

name: John	index.js:5
age: 30	index.js:6
number: 1	index.js:7
Previous Player: null	index.js:8
name: Amanda	index.js:5
age: 20	index.js:6
number: 2	index.js:7
Previous Player: -KHZAeBSVzN8gjWecqMA	index.js:8
name: Bob	index.js:5
age: 25	index.js:6
number: 3	index.js:7
Previous Player: -KHZAeBSXUVB3AQUXLEO	index.js:8

child_changed

This event type is triggered when the data has changed.

Example

Let us consider the following example.

```
var playersRef = firebase.database().ref("players/");

playersRef.on("child_changed", function(data) {
  var player = data.val();
  console.log("The updated player name is " + player.name);
});
```

We can change **Bob** to **Maria** in Firebase to get the update.

A screenshot of a web browser's developer console. It shows a single log entry with the text "The updated player name is Maria". To the right of the text is a link that says "index.js:7". Below the log entry is a blue arrow icon pointing to the right.

child_removed

If we want to get access of deleted data, we can use **child_removed** event type.

Example

```
var playersRef = firebase.database().ref("players/");

playersRef.on("child_removed", function(data) {
  var deletedPlayer = data.val();
  console.log(deletedPlayer.name + " has been deleted");
});
```

Now, we can delete Maria from Firebase to get notifications.

A screenshot of a web browser's developer console. It shows a single log entry with the text "Maria has been deleted". To the right of the text is a link that says "index.js:7". Below the log entry is a blue arrow icon pointing to the right.

Firestore - Detaching Callbacks

This chapter will show you how to detach callbacks in Firestore.

Detach Callback for Event Type

Let us say we want to detach a callback for a function with **value** event type.

Example

```
var playersRef = firebase.database().ref("players/");

ref.on("value", function(data) {
  console.log(data.val());
}, function (error) {
  console.log("Error: " + error.code);
});
```

We need to use **off()** method. This will remove all callbacks with **value** event type.

```
playersRef.off("value");
```

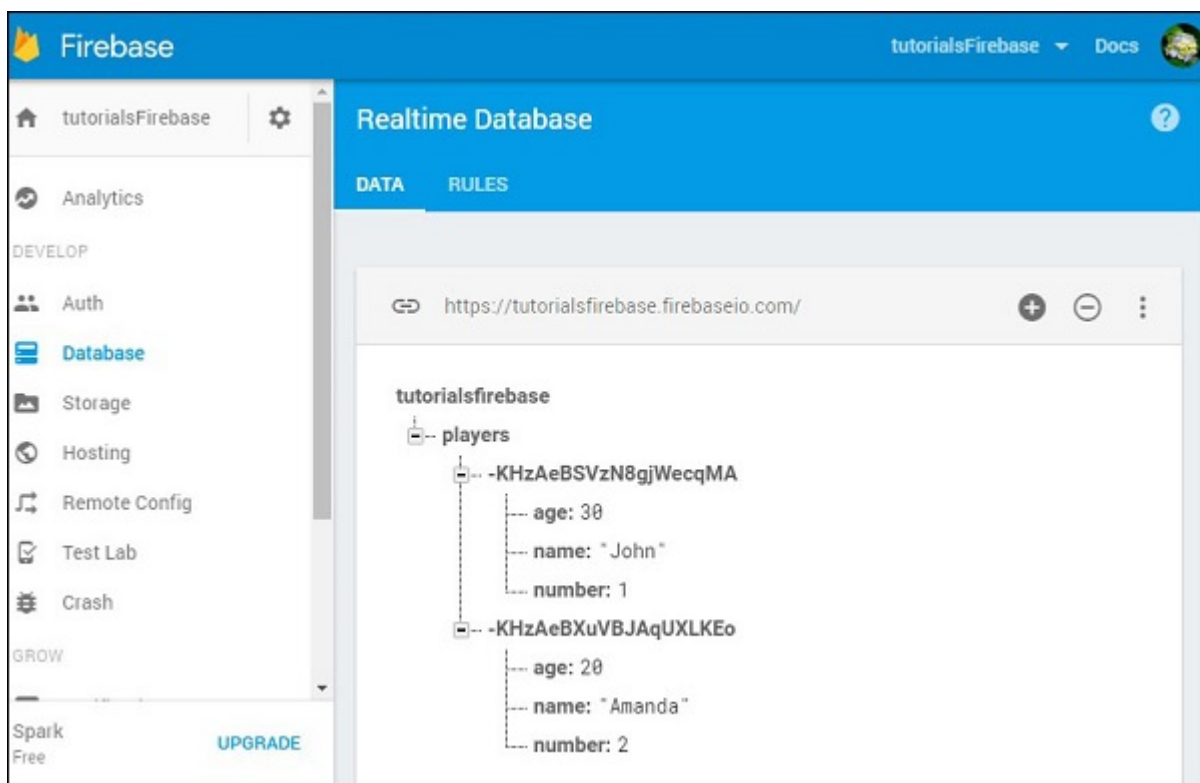
Detach All Callbacks

When we want to detach all callbacks, we can use –

```
playersRef.off();
```

Firestore - Queries

Firestore offers various ways of ordering data. In this chapter, we will show simple query examples. We will use the same data from our previous chapters.



Order by Child

To order data by name, we can use the following code.

Example

Let us consider the following example.

```
var playersRef = firebase.database().ref("players/");

playersRef.orderByChild("name").on("child_added", function(data) {
  console.log(data.val().name);
});
```

We will see names in the alphabetic order.

Amanda	index.js:4
John	index.js:4

Order by Key

We can order data by key in a similar fashion.

Example

Let us consider the following example.

```
var playersRef = firebase.database().ref("players/");

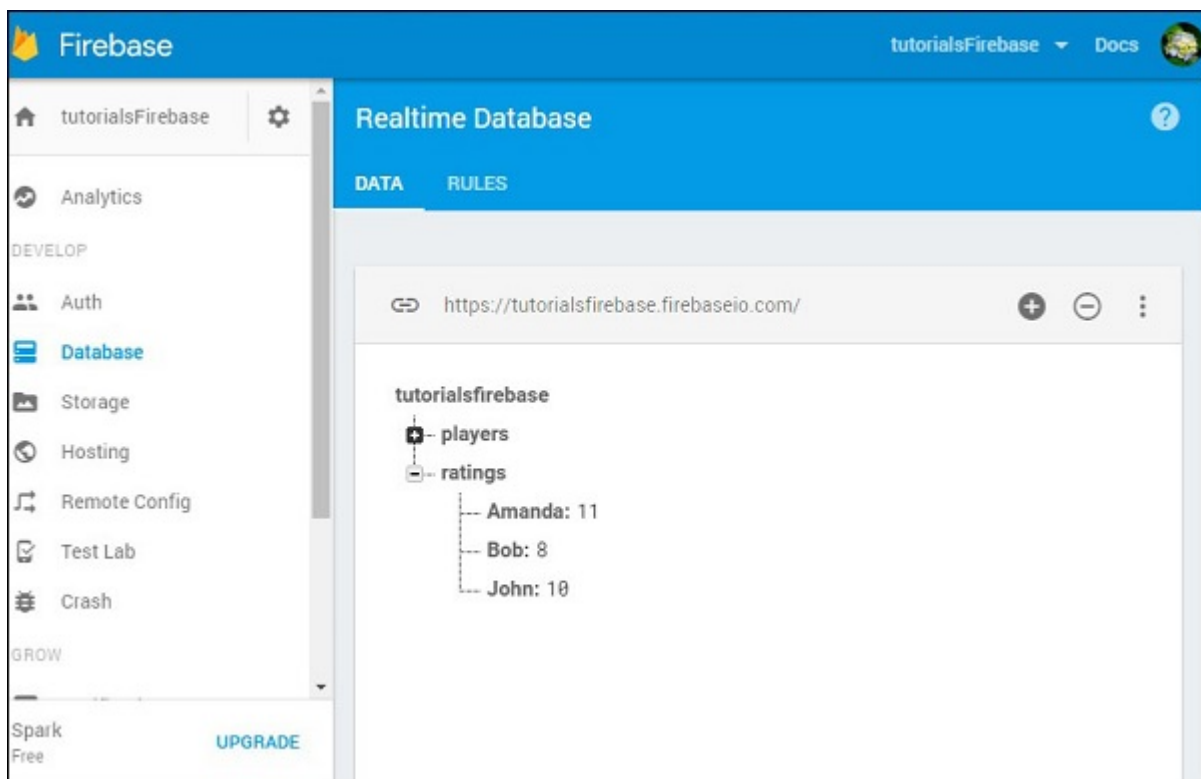
playersRef.orderByKey().on("child_added", function(data) {
  console.log(data.key);
});
```

The output will be as shown below.

-KHZAeBSVzN8gjMecqMA	index.js:4
-KHZAeBXuVBJAqUXLKEo	index.js:4

Order by Value

We can also order data by value. Let us add the ratings collection in Firebase.



Now we can order data by value for each player.

Example

Let us consider the following example.


```

var ratingRef = firebase.database().ref("ratings/");

ratingRef.orderByValue().on("value", function(data) {

    data.forEach(function(data) {
        console.log("The " + data.key + " rating is " + data.val());
    });

});

```

The output will be as shown below.

The John rating is 10	index.js:5
The Amanda rating is 11	index.js:5

Firestore - Filtering Data

Firestore offers several ways to filter data.

Limit to First and Last

Let us understand what limit to first and last is.

limitToFirst method returns the specified number of items beginning from the first one.

limitToLast method returns a specified number of items beginning from the last one.

Our example is showing how this works. Since we only have two players in database, we will limit queries to one player.

Example

Let us consider the following example.

```

var firstPlayerRef = firebase.database().ref("players/").limitToFirst(1);

var lastPlayerRef = firebase.database().ref('players/').limitToLast(1);

firstPlayerRef.on("value", function(data) {
    console.log(data.val());
}, function (error) {
    console.log("Error: " + error.code);
});

lastPlayerRef.on("value", function(data) {
    console.log(data.val());
}, function (error) {
    console.log("Error: " + error.code);
});

```

Our console will log the first player from the first query, and the last player from the second query.



Other Filters

We can also use other Firebase filtering methods. The **startAt()**, **endAt()** and the **equalTo()** can be combined with ordering methods. In our example, we will combine it with the **orderByChild()** method.

Example

Let us consider the following example.

```
var playersRef = firebase.database().ref("players/");

playersRef.orderByChild("name").startAt("Amanda").on("child_added", function(data) {
  console.log("Start at filter: " + data.val().name);
});

playersRef.orderByChild("name").endAt("Amanda").on("child_added", function(data) {
  console.log("End at filter: " + data.val().name);
});

playersRef.orderByChild("name").equalTo("John").on("child_added", function(data) {
  console.log("Equal to filter: " + data.val().name);
});

playersRef.orderByChild("age").startAt(20).on("child_added", function(data) {
  console.log("Age filter: " + data.val().name);
});
```

The first query will order elements by name and filter from the player with the name **Amanda**. The console will log both players. The second query will log "Amanda" since we are ending query with this name. The third one will log "John" since we are searching for a player with that name.

The fourth example is showing how we can combine filters with "age" value. Instead of string, we are passing the number inside the **startAt()** method since age is represented by a number value.

Start at filter: Amanda	index.is:4
Start at filter: John	index.is:4
End at filter: Amanda	index.is:8
Equal to filter: John	index.is:12
Age filter: Amanda	index.is:16
Age filter: John	index.is:16

Firestore - Best Practices

In this chapter, we will go through the best practices of Firebase.

Avoid Nesting Data

When you fetch the data from Firebase, you will get all of the child nodes. This is why deep nesting is not said to be the best practice.

Denormalize Data

When you need deep nesting functionality, consider adding couple of different collections; even when you need to add some data duplication and use more than one request to retrieve what you need.

Firebase - Email Authentication

In this chapter, we will show you how to use Firebase Email/Password authentication.

Create user

To authenticate a user, we can use the **createUserWithEmailAndPassword(email, password)** method.

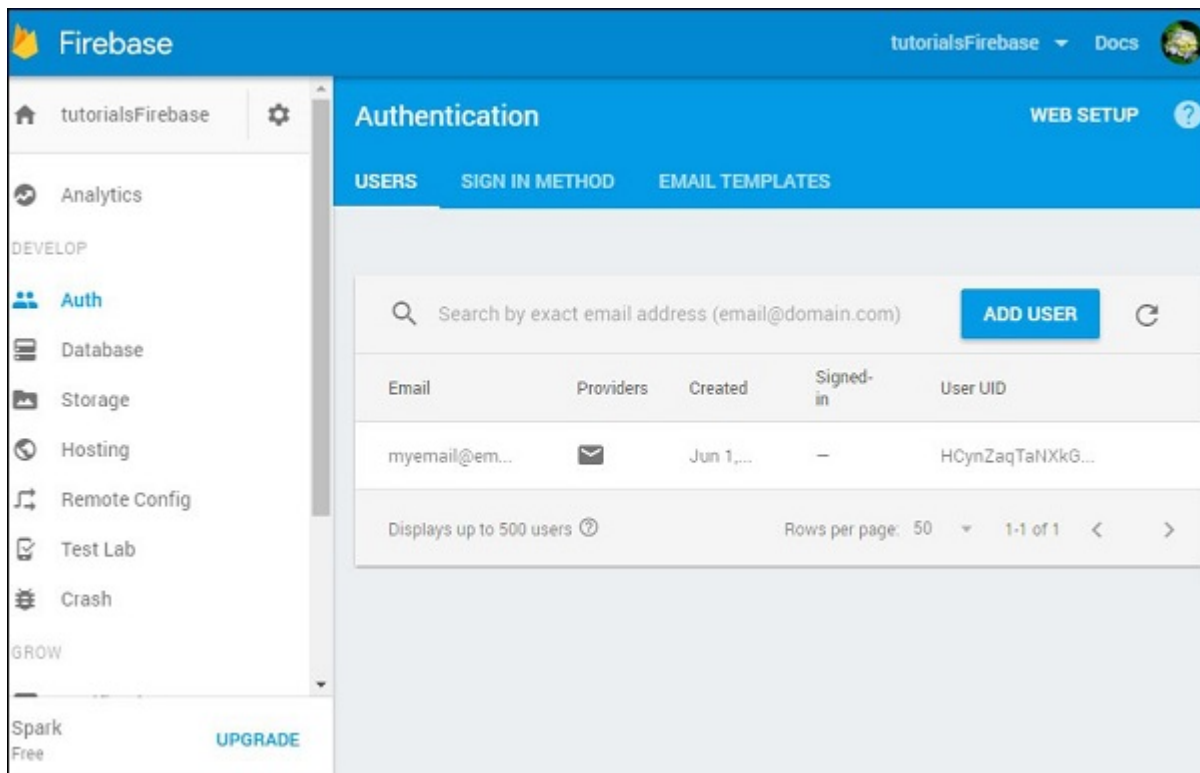
Example

Let us consider the following example.

```
var email = "myemail@email.com";
var password = "mypassword";

firebase.auth().createUserWithEmailAndPassword(email, password).catch(function(error) {
  console.log(error.code);
  console.log(error.message);
});
```

We can check the Firebase dashboard and see that the user is created.



Sign In

The Sign-in process is almost the same. We are using the **signInWithEmailAndPassword(email, password)** to sign in the user.

Example

Let us consider the following example.

```
var email = "myemail@email.com";
var password = "mypassword";

firebase.auth().signInWithEmailAndPassword(email, password).catch(function(error) {
  console.log(error.code);
  console.log(error.message);
});
```

Signout

And finally we can logout the user with the **signOut()** method.

Example

Let us consider the following example.

```
firebase.auth().signOut().then(function() {
  console.log("Logged out!")
}, function(error) {
  console.log(error.code);
  console.log(error.message);
});
```

Firebase - Google Authentication

In this chapter, we will show you how to set up Google authentication in Firebase.

Step 1 - Enable Google Authentication

Open Firebase dashboard and click **Auth** on the left side menu. To open the list of available methods, you need to click on **SIGN_IN_METHODS** in the tab menu.

Now you can choose **Google** from the list, enable it and save it.

Step 2 - Create Buttons

Inside our **index.html**, we will add two buttons.

index.html

```
<button onclick = "googleSignIn()">Google Signin</button>
<button onclick = "googleSignout()">Google Signout</button>
```

Step 3 - Signin and Signout

In this step, we will create Signin and Signout functions. We will use **signInWithPopup()** and **signOut()** methods.

Example

Let us consider the following example.

```
var provider = new firebase.auth.GoogleAuthProvider();

function googleSignIn() {
  firebase.auth()

  .signInWithPopup(provider).then(function(result) {
    var token = result.credential.accessToken;
    var user = result.user;

    console.log(token)
    console.log(user)
  }).catch(function(error) {
    var errorCode = error.code;
    var errorMessage = error.message;

    console.log(error.code)
    console.log(error.message)
  });
}

function googleSignout() {
  firebase.auth().signOut()

  .then(function() {
```

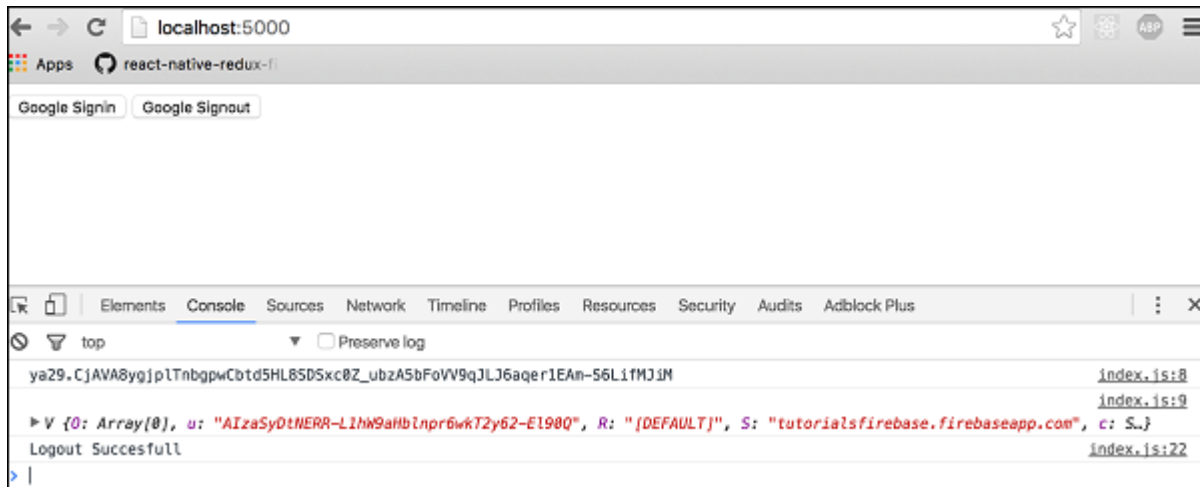
```

    console.log('Signout Succesfull')
  }, function(error) {
    console.log('Signout Failed')
  });
}

```

After we refresh the page, we can click on the **Google Signin** button to trigger the Google popup. If signing in is successful, the developer console will log in our user.

We can also click on the **Google Signout** button to logout from the app. The console will confirm that the logout was successful.



Firestore - Facebook Authentication

In this chapter, we will authenticate users with Firebase Facebook authentication.

Step 1 - Enable Facebook Auth

We need to open Firebase dashboard and click **Auth** in side menu. Next, we need to choose **SIGN-IN-METHOD** in tab bar. We will enable Facebook auth and leave this open since we need to add **App ID** and **App Secret** when we finish step 2.

Step 2 - Create Facebook App

To enable Facebook authentication, we need to create the Facebook app. Click on this link to start. Once the app is created, we need to copy **App ID** and **App Secret** to the Firebase page, which we left open in step 1. We also need to copy **OAuth Redirect URI** from this window into the Facebook app. You can find **+ Add Product** inside side menu of the Facebook app dashboard.

Choose **Facebook Login** and it will appear in the side menu. You will find input field **Valid OAuth redirect URIs** where you need to copy the **OAuth Redirect URI** from Firebase.

Step 3 - Connect to Facebook SDK

Copy the following code at the beginning of the **body** tag in **index.html**. Be sure to replace the '**APP_ID**' to your app id from Facebook dashboard.

Example

Let us consider the following example.

```
<script>
  window.fbAsyncInit = function() {
    FB.init ({
      appId      : 'APP_ID',
      xfbml      : true,
      version    : 'v2.6'
    });
  };

  (function(d, s, id) {
    var js, fjs = d.getElementsByTagName(s)[0];
    if (d.getElementById(id)) {return;}
    js = d.createElement(s); js.id = id;
    js.src = "//connect.facebook.net/en_US/sdk.js";
    fjs.parentNode.insertBefore(js, fjs);
  } (document, 'script', 'facebook-jssdk'));
```

```
</script>
```

Step 4 - Create Buttons

We set everything in first three steps, now we can create two buttons for login and logout.

index.html

```
<button onclick = "facebookSignin()">Facebook Signin</button>
<button onclick = "facebookSignout()">Facebook Signout</button>
```

Step 5 - Create Auth Functions

This is the last step. Open **index.js** and copy the following code.

index.js

```
var provider = new firebase.auth.FacebookAuthProvider();

function facebookSignin() {
  firebase.auth().signInWithPopup(provider)

  .then(function(result) {
    var token = result.credential.accessToken;
    var user = result.user;

    console.log(token)
    console.log(user)
  }).catch(function(error) {
    console.log(error.code);
    console.log(error.message);
  });
}
```

```

    });
}

function facebookSignout() {
    firebase.auth().signOut()

    .then(function() {
        console.log('Signout successful!')
    }, function(error) {
        console.log('Signout failed')
    });
}

```

Firestore - Twitter Authentication

In this chapter, we will explain how to use Twitter authentication.

Step 1 - Create Twitter App

You can create Twitter app on this link [Twitter App](#). Once your app is created click on **Keys and Access Tokens** where you can find **API Key** and **API Secret**. You will need this in step 2.

Step 2 - Enable Twitter Authentication

In your Firebase dashboard side menu, you need to click **Auth**. Then open **SIGN-IN-METHOD** tab. Click on Twitter to enable it. You need to add **API Key** and **API Secret** from the step 1.

Then you would need to copy the **callback URL** and paste it in your Twitter app. You can find the Callback URL of your Twitter app when you click on the **Settings** tab.

Step 3 - Add Buttons

In this step, we will add two buttons inside the **body** tag of **index.html**.

index.html

```

<button onclick = "twitterSignin()">Twitter Signin</button>
<button onclick = "twitterSignout()">Twitter Signout</button>

```

Step 4 - Authentication Functions

Now we can create functions for Twitter authentication.

index.js

```

var provider = new firebase.auth.TwitterAuthProvider();

function twitterSignin() {
    firebase.auth().signInWithPopup(provider)

```



```

.then(function(result) {
  var token = result.credential.accessToken;
  var user = result.user;

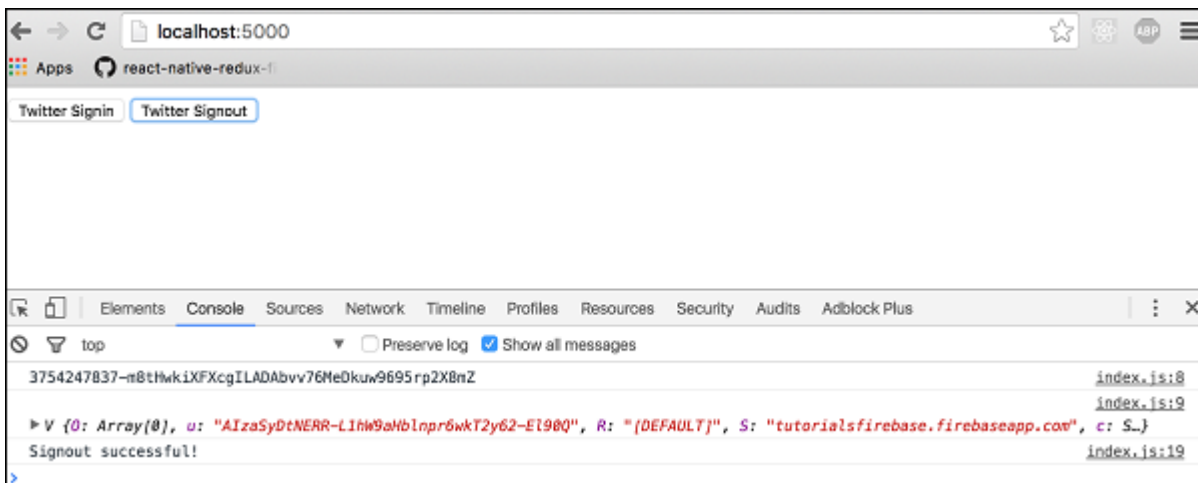
  console.log(token)
  console.log(user)
}).catch(function(error) {
  console.log(error.code)
  console.log(error.message)
});
}

function twitterSignout() {
  firebase.auth().signOut()

  .then(function() {
    console.log('Signout successful!')
  }, function(error) {
    console.log('Signout failed!')
  });
}

```

When we start our app, we can sign in or signout by clicking the two buttons. The console will confirm that the authentication is successful.



Firestore - Github Authentication

In this chapter, we will show you how to authenticate users using the GitHub API.

Step 1 - Enable GitHub Authentication

Open Firebase dashboard and click **Auth** from the side menu and then **SIGN-IN-METHOD** in tab bar. You need enable GitHub authentication and copy the **Callback URL**. You will need this in step 2. You can leave this tab open since you will need to add **Client ID** and **Client Secret** once you finish step 2.

Step 2 - Create Github App

Follow this link [to create the GitHub app](#). You need to copy the **Callback URL** from Firebase into the **Authorization callback URL** field. Once your app is created, you need to copy the **Client Key** and the **Client Secret** from the GitHub app to Firebase.

Step 3 - Create Buttons

We will add two buttons in the **body** tag.

index.html

```
<button onclick = "githubSignin()">Github Signin</button>
<button onclick = "githubSignout()">Github Signout</button>
```

Step 4 - Create Auth Functions

We will create functions for signin and signout inside the **index.js** file.

index.js

```
var provider = new firebase.auth.GithubAuthProvider();

function githubSignin() {
  firebase.auth().signInWithPopup(provider)

  .then(function(result) {
    var token = result.credential.accessToken;
    var user = result.user;

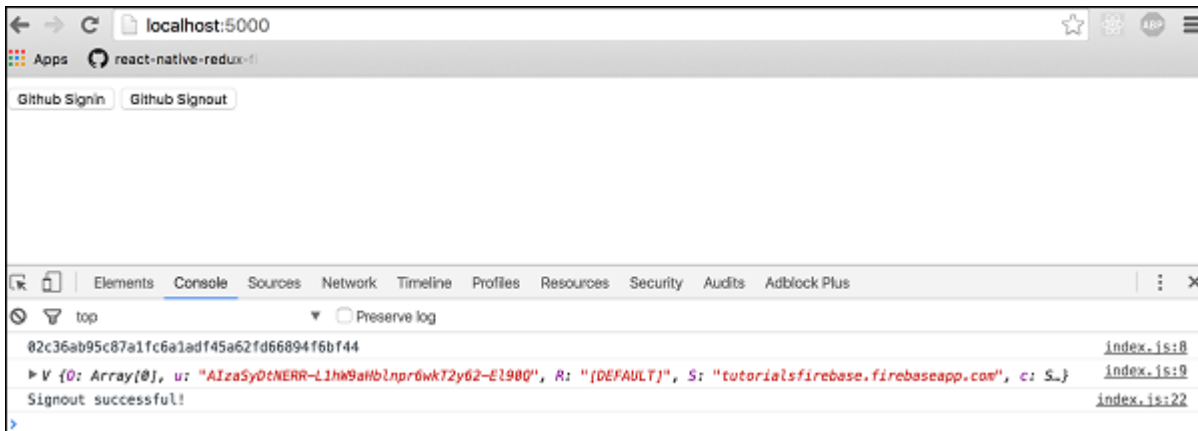
    console.log(token)
    console.log(user)
  }).catch(function(error) {
    var errorCode = error.code;
    var errorMessage = error.message;

    console.log(error.code)
    console.log(error.message)
  });
}

function githubSignout(){
  firebase.auth().signOut()

  .then(function() {
    console.log('Signout successful!')
  }, function(error) {
    console.log('Signout failed')
  });
}
```

Now we can click on buttons to trigger authentication. Console will show that the authentication is successful.



Firestore - Anonymous Authentication

In this chapter, we will authenticate users anonymously.

Step 1 - Enable Anonymous Auth

This is the same process as in our earlier chapters. You need to open the Firebase dashboard, click on **Auth** from the side menu and **SIGN-IN-METHOD** inside the tab bar. You need to enable anonymous authentication.

Step 2 - Signin Function

We can use **signInAnonymously()** method for this authentication.

Example

Let us consider the following example.

```
firebase.auth().signInAnonymously()
.then(function() {
  console.log('Logged in as Anonymous!')

}).catch(function(error) {
  var errorCode = error.code;
  var errorMessage = error.message;
  console.log(errorCode);
  console.log(errorMessage);
});
```

Firestore - Offline Capabilities

In this chapter, we will show you how to handle the Firestore connection state.

Check Connection

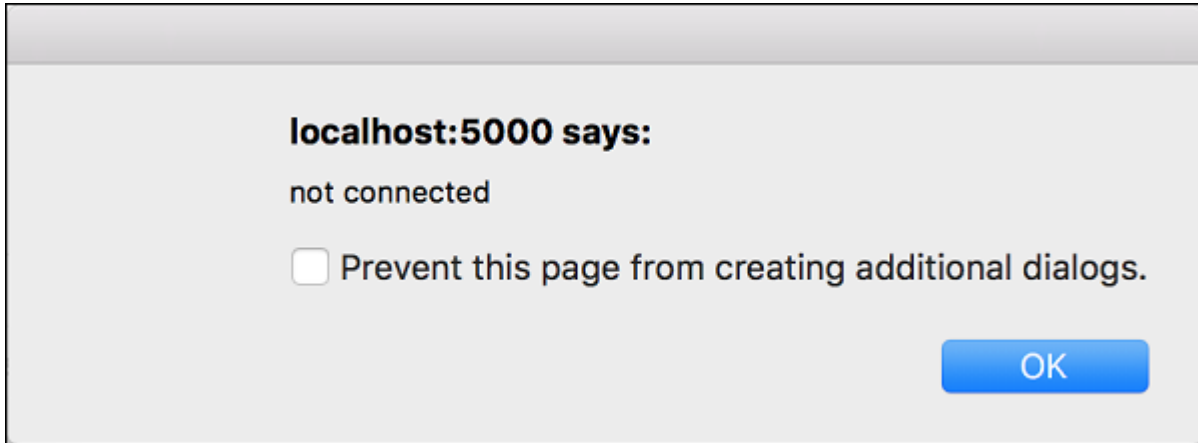
We can check for connection value using the following code.

index.js

```
var connectedRef = firebase.database().ref(".info/connected");

connectedRef.on("value", function(snap) {
  if (snap.val() === true) {
    alert("connected");
  } else {
    alert("not connected");
  }
});
```

When we run the app, the pop up will inform us about the connection.



By using the above given function, you can keep a track of the connection state and update your app accordingly.

Firestore - Security

Security in Firestore is handled by setting the JSON like object inside the security rules. Security rules can be found when we click on **Database** inside the side menu and then **RULES** in tab bar.

In this chapter, we will go through a couple of simple examples to show you how to secure the Firestore data.

Read and Write

The following code snippet defined inside the Firestore security rules will allow writing access to **/users/'\$uid'/'** for the authenticated user with the same **uid**, but everyone could read it.

Example

Let us consider the following example.

```
{
  "rules": {
    "users": {
      "$uid": {
        ".write": "$uid === auth.uid",
```

```
        ".read": true
      }
    }
  }
}
```

Validate

We can enforce data to string by using the following example.

Example

```
{
  "rules": {
    "foo": {
      ".validate": "newData.isString()"
    }
  }
}
```

This chapter only grabbed the surface of Firebase security rules. The important thing is to understand how these rules work, so you can combine it inside the app.

Firestore - Deploying

In this chapter, we will show you how to host your app on the Firebase server.

Before we begin, let us just add some text to **index.html** body tag. In this example, we will add the following text.

```
<h1>WELCOME TO FIREBASE TUTORIALS APP</h1>
```

Step 1 - Install Firebase Tools

We need to install firebase tools globally in the **command prompt** window.

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

Step 2 - Initialize the Firebase App

First we need to login to Firebase in the **command prompt**.

```
firebase login
```

Open the root folder of your app in the **command prompt** and run the following command.

```
firebase init
```

This command will initialize your app.

NOTE – If you have used a default configuration, the **public** folder will be created and the **index.html** inside this folder will be the starting point of your app. You can copy your app file inside the public folder as a workaround.

Step 3 - Deploy Firebase App

This is the last step in this chapter. Run the following command from the **command prompt** to deploy your app.

```
firebase deploy
```

After this step, the console will log your apps Firebase URL. In our case, it is called `https://tutorialsfirebase.firebaseio.com` . We can run this link in the browser to see our app.



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