

Writing to a Firebase Database



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Overview



Firestore Realtime Database

- NoSQL
- JSON

Set Database Rules

Setup the App

Demo: Insert Data into Firestore



Firestore Realtime Database

SQL

Schema

Normalized, Joins

SQL Queries, Transactions

Implementing and scaling require admin effort

NoSQL

No Schema

Denormalized, No Joins

JavaScript & JSON CRUD

Easier to implement and scale



JSON – JavaScript Object Notation

Language independent, text-based data format,
consisting of Key-Value pairs and used to exchange data.



```
{  
  "firstName": "Paul",  
  "age": 40,  
  "customer": true,  
  "address": {  
    "line1": "123 Oxford Street",  
    "city": "London"  
  },  
  "phones": [{  
    "type": "office",  
    "number": "123 - 456 7890"  
  }]  
}
```

◀ String

◀ Number

◀ Boolean

◀ Object

◀ Array



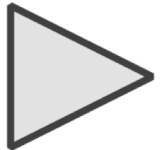
Firebase Setup



Add a Debug Signing Certificate



Download google-services.json



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Update the Gradle File



Debug Keystore

A group of hashed characters that you can get through the “keytool” command.

They identify your computer, so you should keep them secret.



```
private FirebaseDatabase  
firebaseDatabase;  
  
private DatabaseReference  
databaseRef;  
  
firebaseDatabase =  
FirebaseDatabase.getInstance();  
  
databaseRef =  
firebaseDatabase.getReference()  
.child("traveldeals");
```

- ◀ The entry point for accessing a Firebase Realtime Database
- ◀ Location in your Database: can be used for reading or writing data
- ◀ Gets the default FirebaseDatabase instance
- ◀ Gets a DatabaseReference for the “traveldeals” path



Push ID

A unique ID generated automatically by Firebase when using the `push()` method



Summary



Firestore Realtime Database JSON

Setup Firestore in Android

FirestoreDatabase & DatabaseReference

Rules

Push ID

