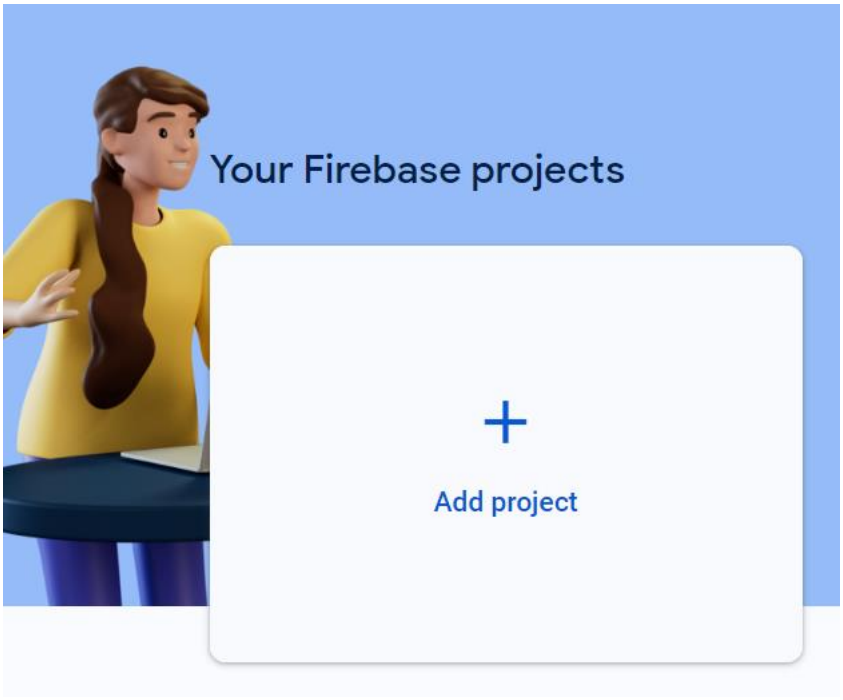
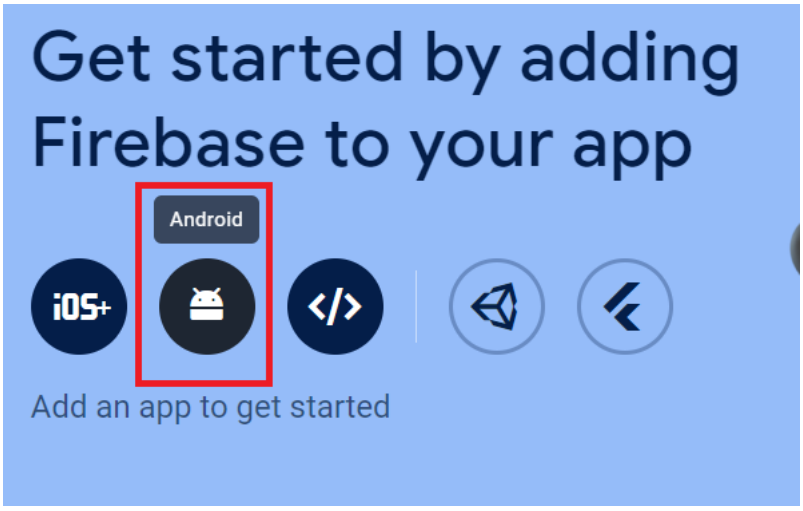
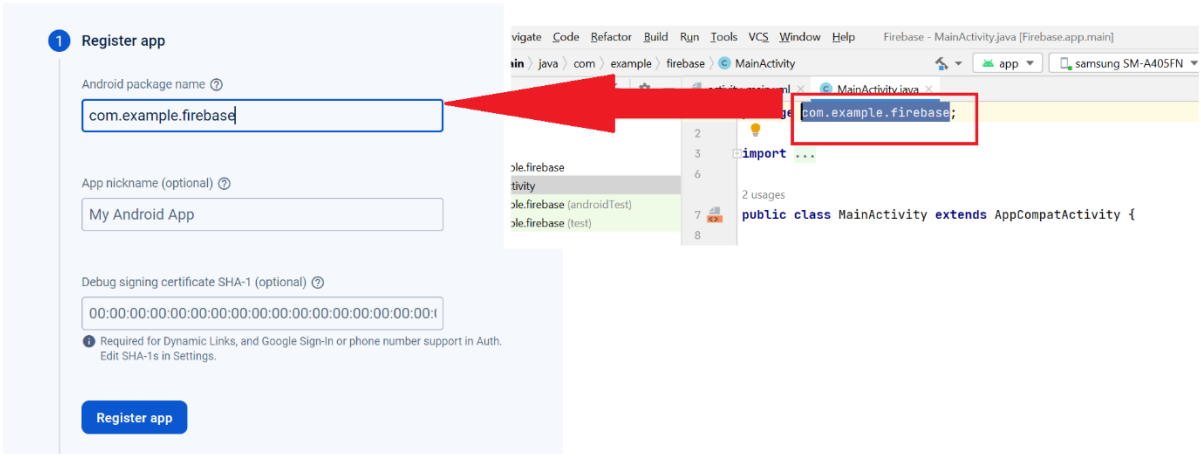
Firebase használata – Realtime Database

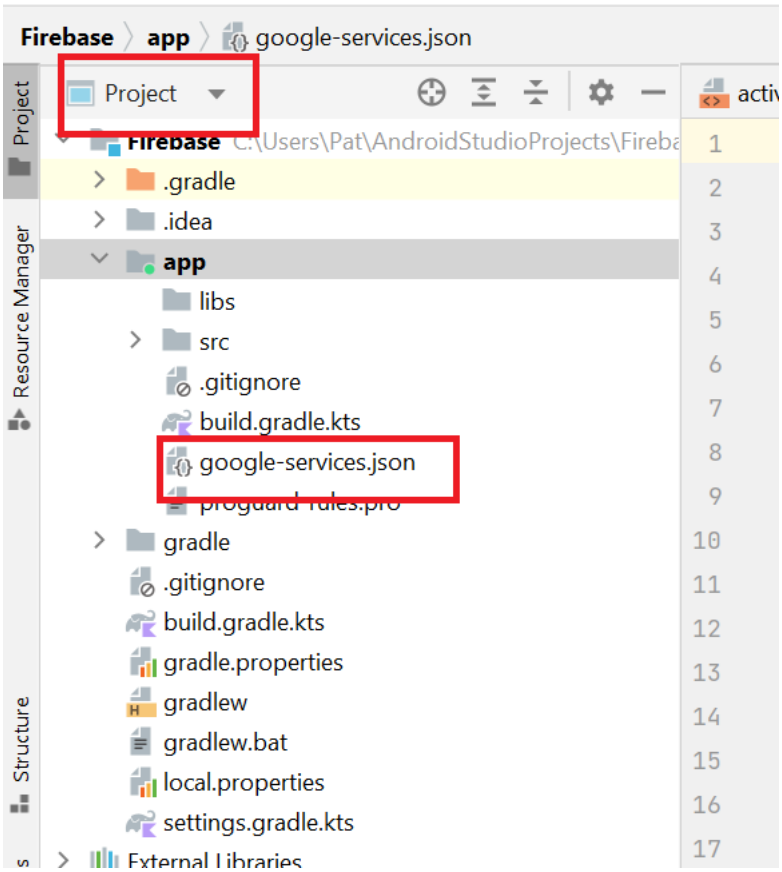
1. https://console.firebase.google.com/
2. 

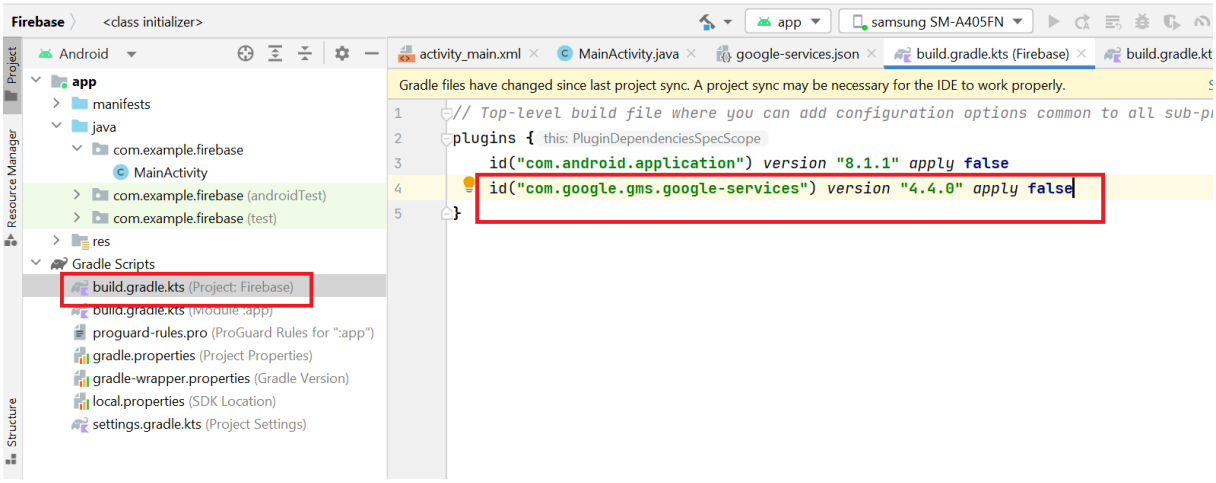
3. 

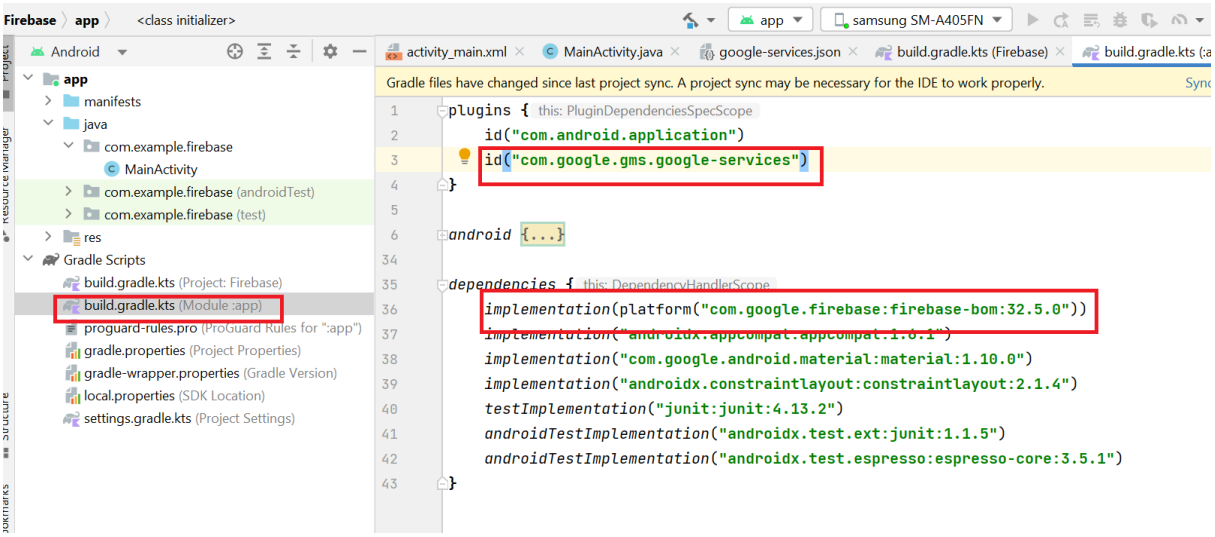
4.


Register app
Android package name
com.example.firebase
App nickname (optional)
My Android App
Debug signing certificate SHA-1 (optional)
00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:0
Required for Dynamic Links, and Google Sign-In or phone number support in Auth. Edit SHA-1s in Settings.
Register app
com.example.firebase;
import ...
2 usages
public class MainActivity extends AppCompatActivity {

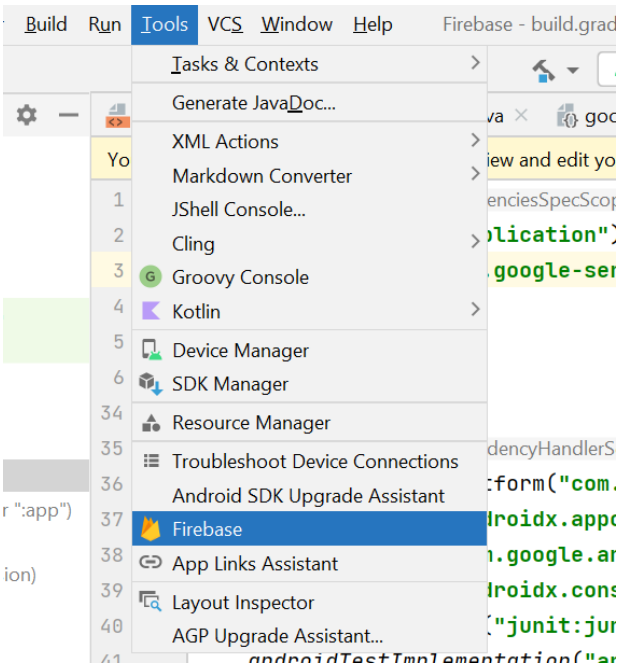
5.


Firebase
app
google-services.json
Project
Resource Manager
Structure
Firebase C:\Users\Pat\AndroidStudioProjects\Fireba
.gradle
.idea
app
libs
src
.gitignore
build.gradle.kts
google-services.json
gradle
.gitignore
build.gradle.kts
gradle.properties
gradlew
gradlew.bat
local.properties
settings.gradle.kts
External Libraries

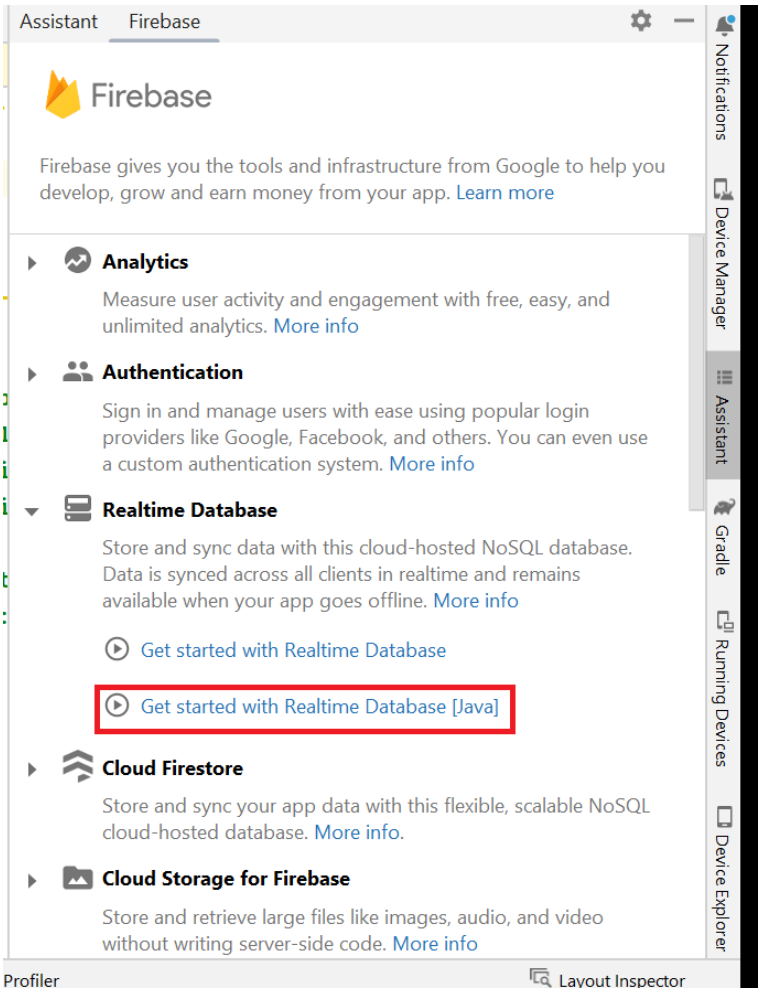
6. 

7. 

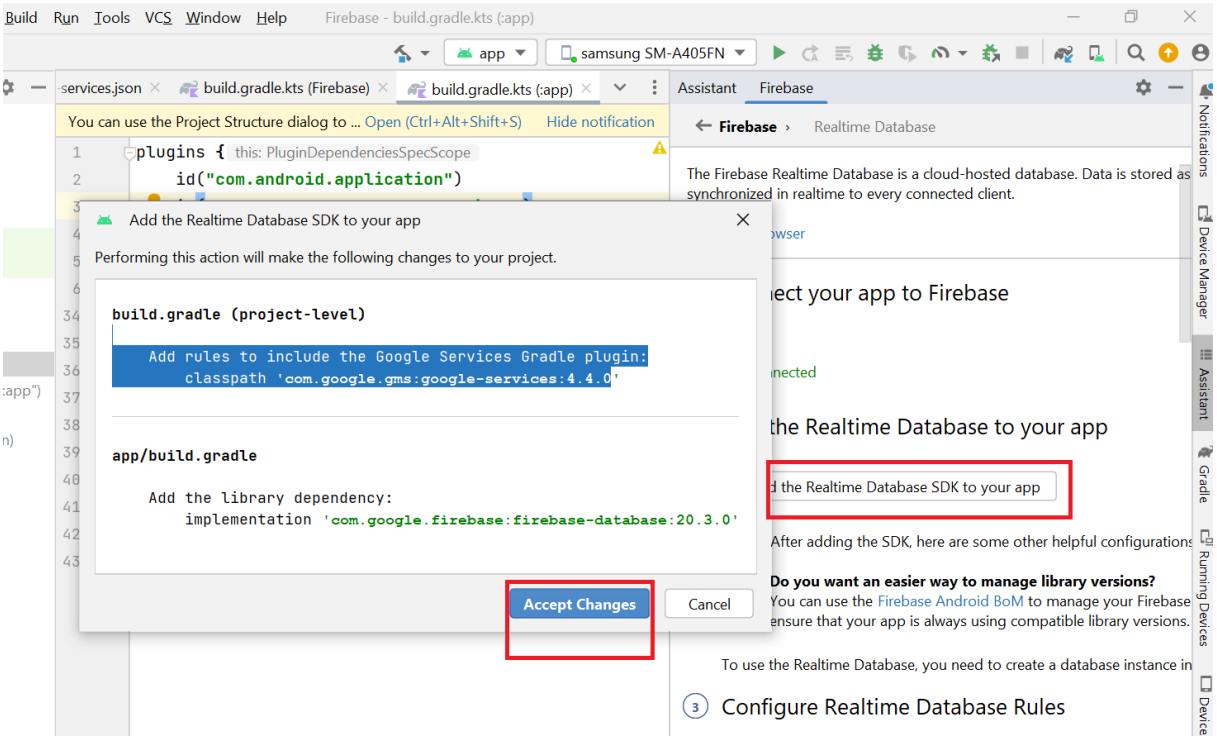
8. Sync Now

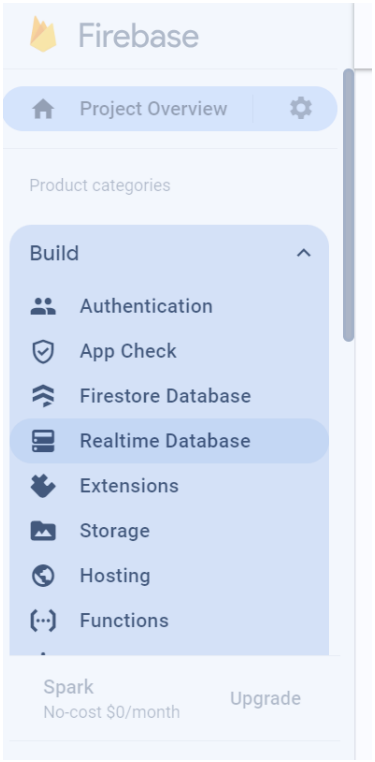
9. 

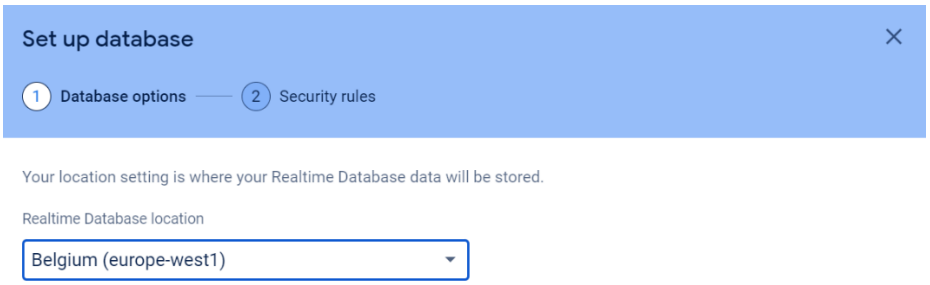
10.

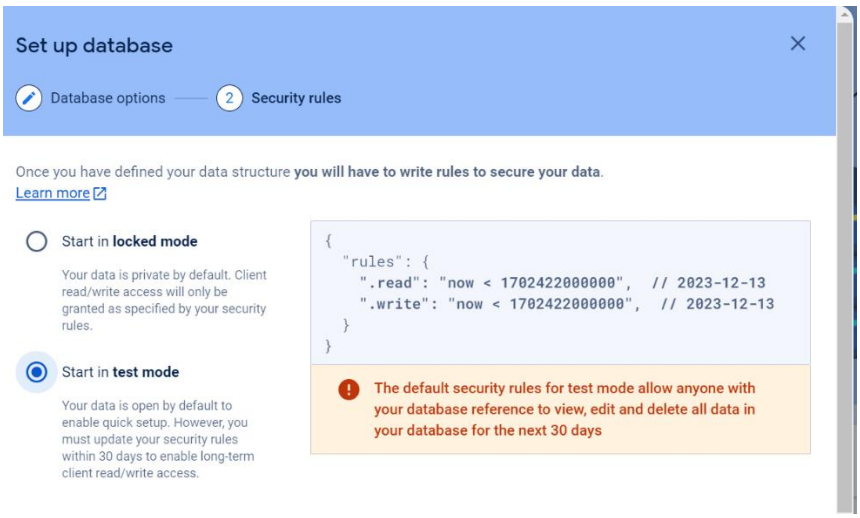

Assistant
Firebase
Firebase
Firebase gives you the tools and infrastructure from Google to help you develop, grow and earn money from your app. Learn more
Analytics
Measure user activity and engagement with free, easy, and unlimited analytics. More info
Authentication
Sign in and manage users with ease using popular login providers like Google, Facebook, and others. You can even use a custom authentication system. More info
Realtime Database
Store and sync data with this cloud-hosted NoSQL database. Data is synced across all clients in realtime and remains available when your app goes offline. More info
Get started with Realtime Database
Get started with Realtime Database [Java]
Cloud Firestore
Store and sync your app data with this flexible, scalable NoSQL cloud-hosted database. More info.
Cloud Storage for Firebase
Store and retrieve large files like images, audio, and video without writing server-side code. More info
Notifications
Device Manager
Assistant
Gradle
Running Devices
Device Explorer
Profiler
Layout Inspector

11.


Build Run Tools VCS Window Help
Firebase - build.gradle.kts (:app)
app
samsung SM-A405FN
services.json
build.gradle.kts (Firebase)
build.gradle.kts (:app)
You can use the Project Structure dialog to ... Open (Ctrl+Alt+Shift+S) Hide notification
plugins { this: PluginDependenciesSpecScope
id("com.android.application")
Add the Realtime Database SDK to your app
Performing this action will make the following changes to your project.
build.gradle (project-level)
Add rules to include the Google Services Gradle plugin:
classpath 'com.google.gms:google-services:4.4.0'
app/build.gradle
Add the library dependency:
implementation 'com.google.firebase:firebase-database:20.3.0'
Accept Changes
Cancel
Assistant
Firebase
Firebase › Realtime Database
The Firebase Realtime Database is a cloud-hosted database. Data is stored as synchronized in realtime to every connected client.
the Realtime Database to your app
the Realtime Database SDK to your app
After adding the SDK, here are some other helpful configurations
Do you want an easier way to manage library versions?
You can use the Firebase Android BoM to manage your Firebase ensure that your app is always using compatible library versions.
To use the Realtime Database, you need to create a database instance in
Configure Realtime Database Rules

12. 
Firebase
Project Overview
Product categories
Build
Authentication
App Check
Firestore Database
Realtime Database
Extensions
Storage
Hosting
Functions
Spark
No-cost $0/month
Upgrade

13. 
Set up database
1 Database options
2 Security rules
Your location setting is where your Realtime Database data will be stored.
Realtime Database location
Belgium (europe-west1)
Cancel
Next

14. 
Set up database
Database options
2 Security rules
Once you have defined your data structure you will have to write rules to secure your data.
Learn more
Start in locked mode
Your data is private by default. Client read/write access will only be granted as specified by your security rules.
Start in test mode
Your data is open by default to enable quick setup. However, you must update your security rules within 30 days to enable long-term client read/write access.
{
"rules": {
".read": "now < 1702422000000", // 2023-12-13
".write": "now < 1702422000000", // 2023-12-13
}
}
The default security rules for test mode allow anyone with your database reference to view, edit and delete all data in your database for the next 30 days

KÓD

```
//write
// Write a message to the database
FirebaseDatabase database = FirebaseDatabase.getInstance("https://test-
27d2f-default-rtdb.europe-west1.firebasedatabase.app/");
DatabaseReference myRef = database.getReference("message");

myRef.setValue("Hello, World!");


///////////////
// Read from the database
myRef.addValueEventListener(new ValueEventListener() {
    @Override
    public void onDataChange(DataSnapshot dataSnapshot) {
        // This method is called once with the initial value and again
        // whenever data at this location is updated.
        String value = dataSnapshot.getValue(String.class);
        Log.d("TAG", "Value is: " + value);
        Toast.makeText(MainActivity.this, value, Toast.LENGTH_LONG).show();
    }

    @Override
    public void onCancelled(DatabaseError error) {
        // Failed to read value
        Log.w("TAG", "Failed to read value.", error.toException());
    }
});
```