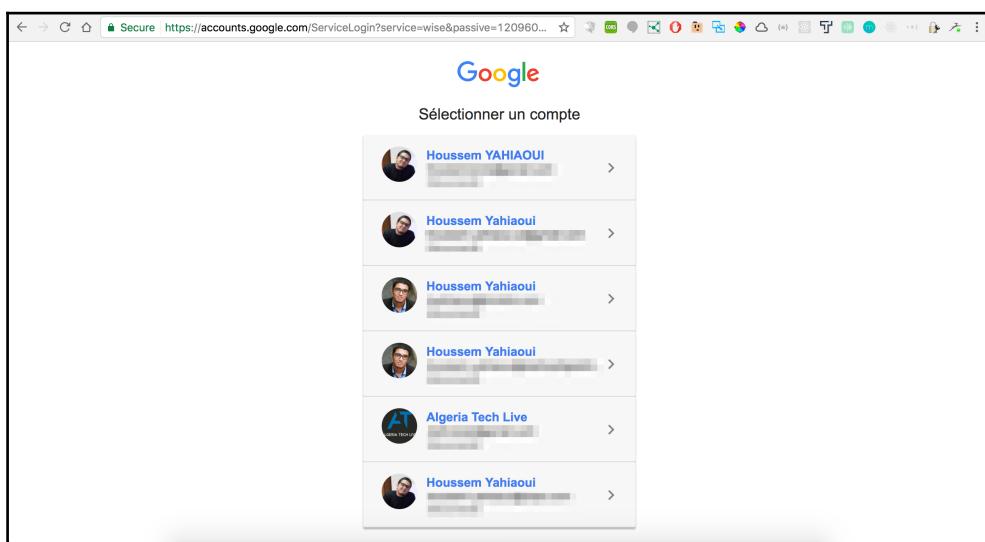
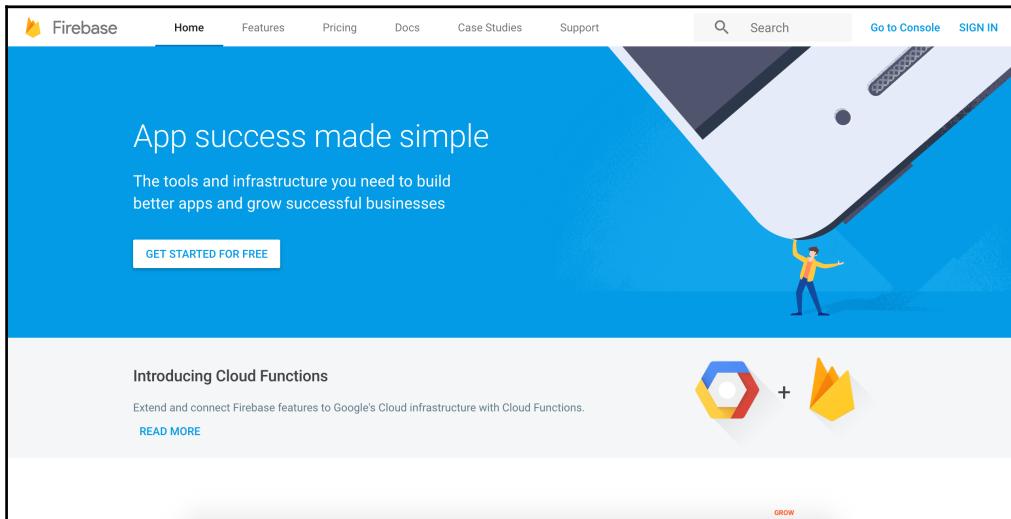


Chapter 1: Firebase - Getting Started



 **Firebase** [Go to docs](#) [...](#)

Welcome to Firebase

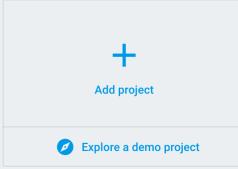
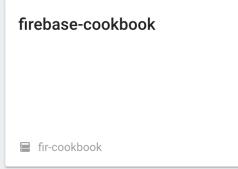
Tools from Google for developing great apps, engaging with your users and earning more through mobile ads.

[Learn more](#) [Documentation](#) [Support](#)



Recent projects

IMPORT GOOGLE PROJECT

 + Add project	 firebase-cookbook <small>fir-cookbook</small>	 fcm-gdg-tlmcen <small>fcm-gdg-tlmcen</small>
---	--	--

 <https://console.firebaseio.google.com> [Go to docs](#) [...](#)

 **Firebase**

Welcome to Firebase

Tools from Google for developing great apps, engaging with your users and earning more through mobile ads.

[Learn more](#) [Documentation](#)

Recent projects

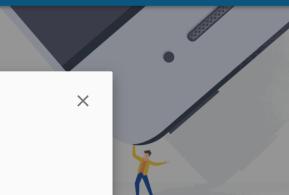
CREATE A PROJECT

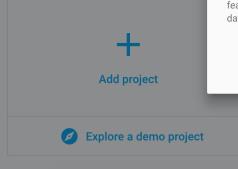
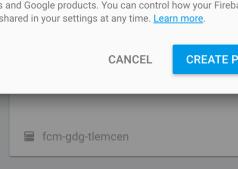
Project name

Country/region [?](#)

By default, your Firebase Analytics data will enhance other Firebase features and Google products. You can control how your Firebase Analytics data is shared in your settings at any time. [Learn more](#).

[CANCEL](#) [CREATE PROJECT](#)



 + Add project	 <small>fcm-gdg-tlmcen</small> 1 app
---	---

Firebase firebase-cookbook Overview Go to docs ⚙️ 🌐

Analytics
Authentication
Database
Storage
Hosting
Functions
Test Lab
Crash Reporting

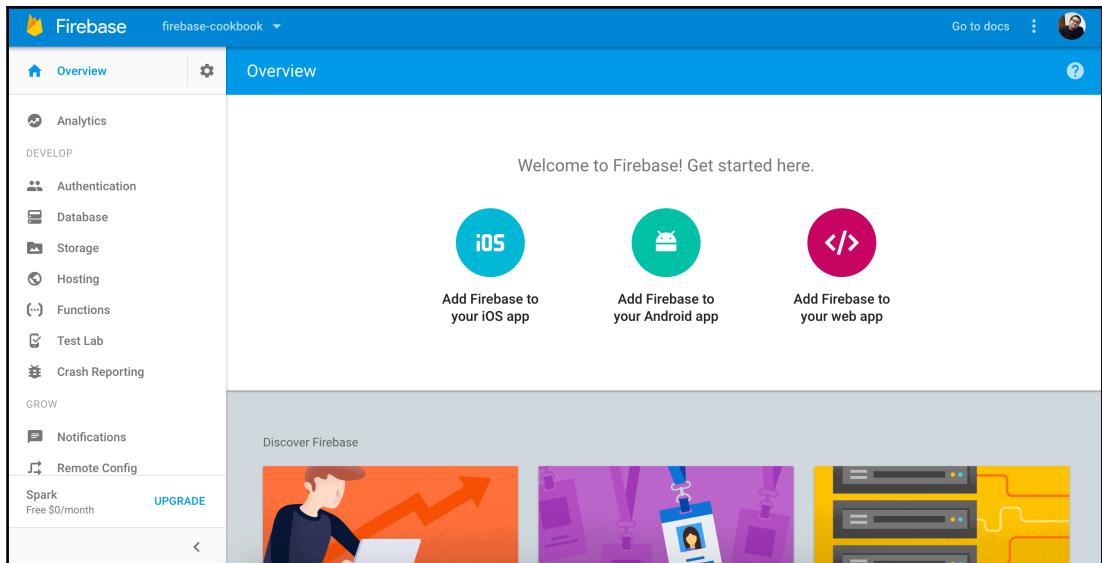
Notifications
Remote Config
Spark Free \$0/month UPGRADE

Overview

Welcome to Firebase! Get started here.

Add Firebase to your iOS app Add Firebase to your Android app Add Firebase to your web app

Discover Firebase



Firebase firebase-cookbook Overview Go to docs ⚙️ 🌐

Analytics
Develop
Authentication
Database
Storage
Hosting
Functions
Test Lab
Crash Reporting

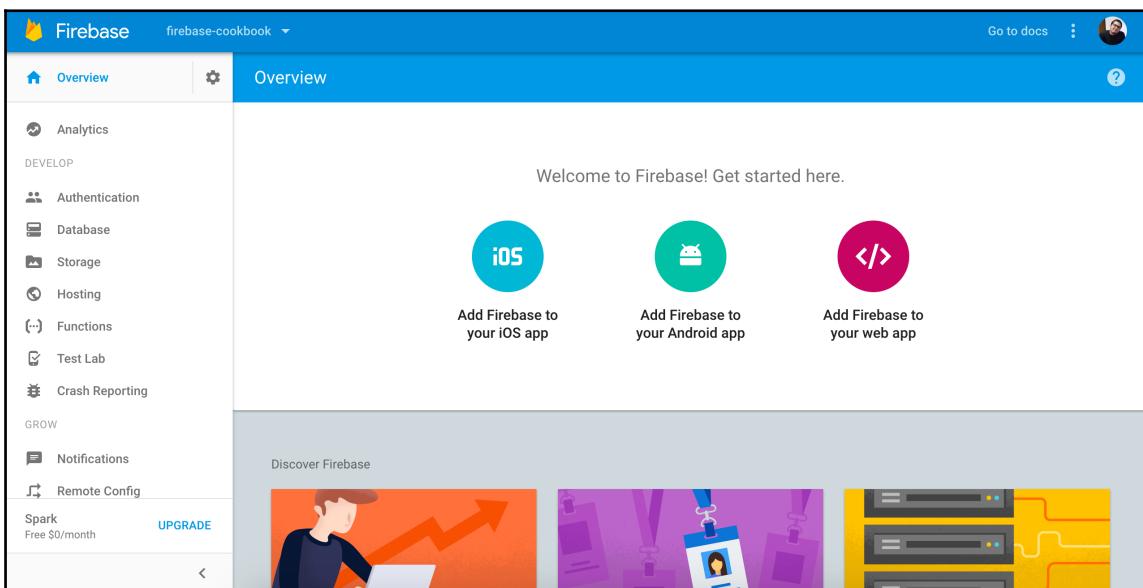
Notifications
Remote Config
Spark Free \$0/month UPGRADE

Overview

Welcome to Firebase! Get started here.

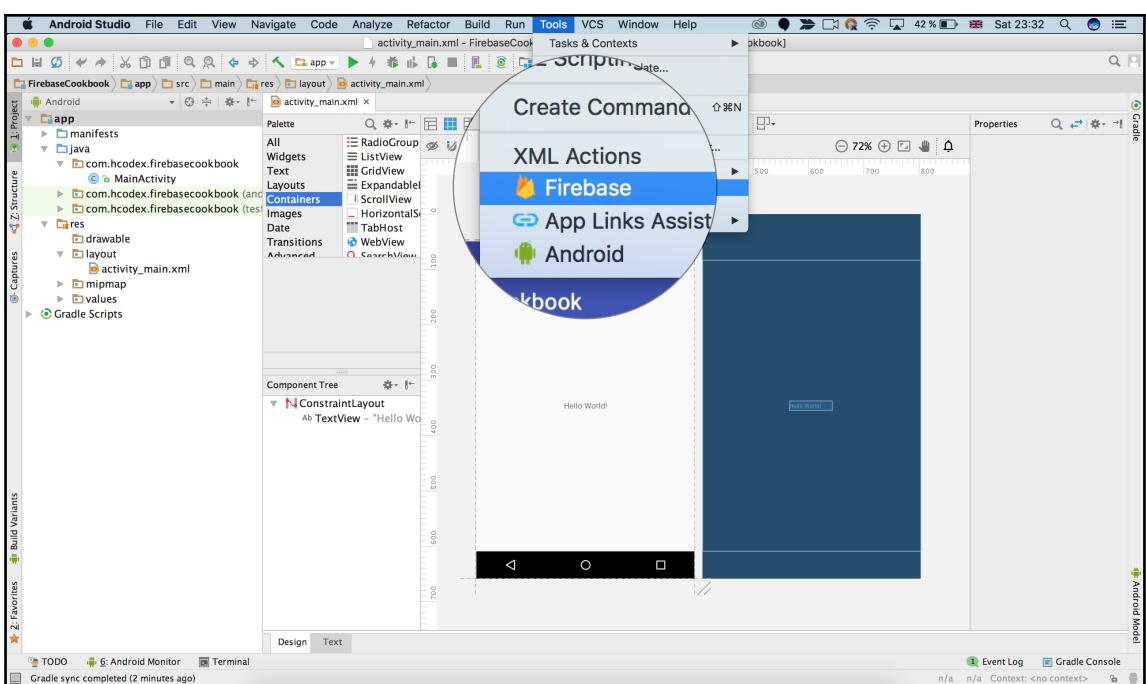
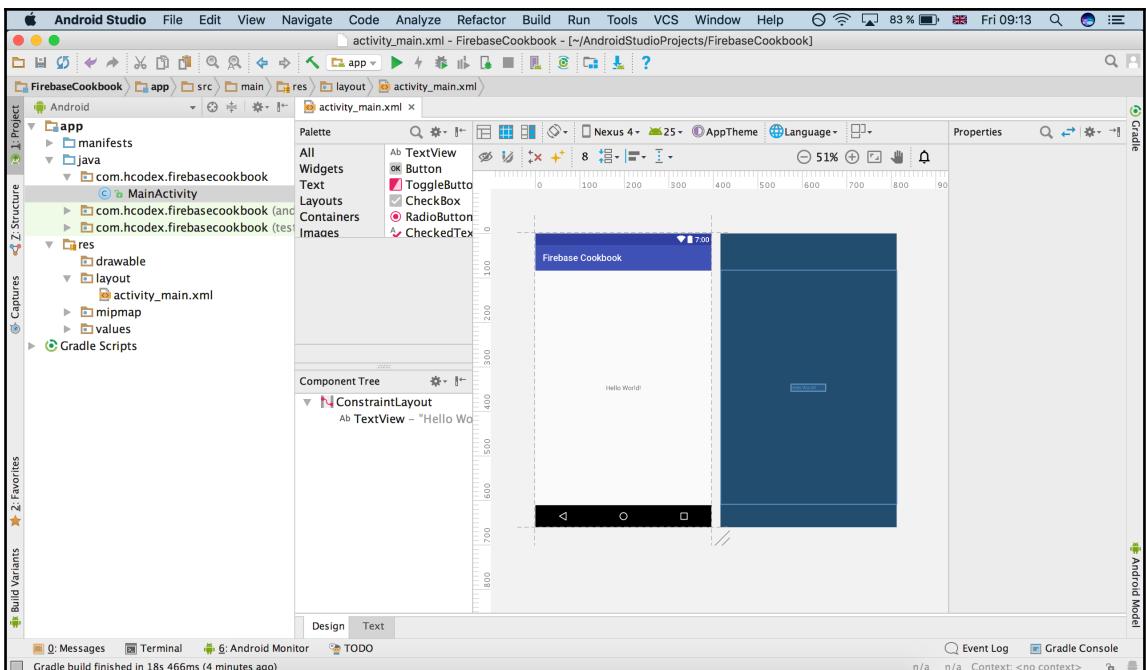
Add Firebase to your iOS app Add Firebase to your Android app Add Firebase to your web app

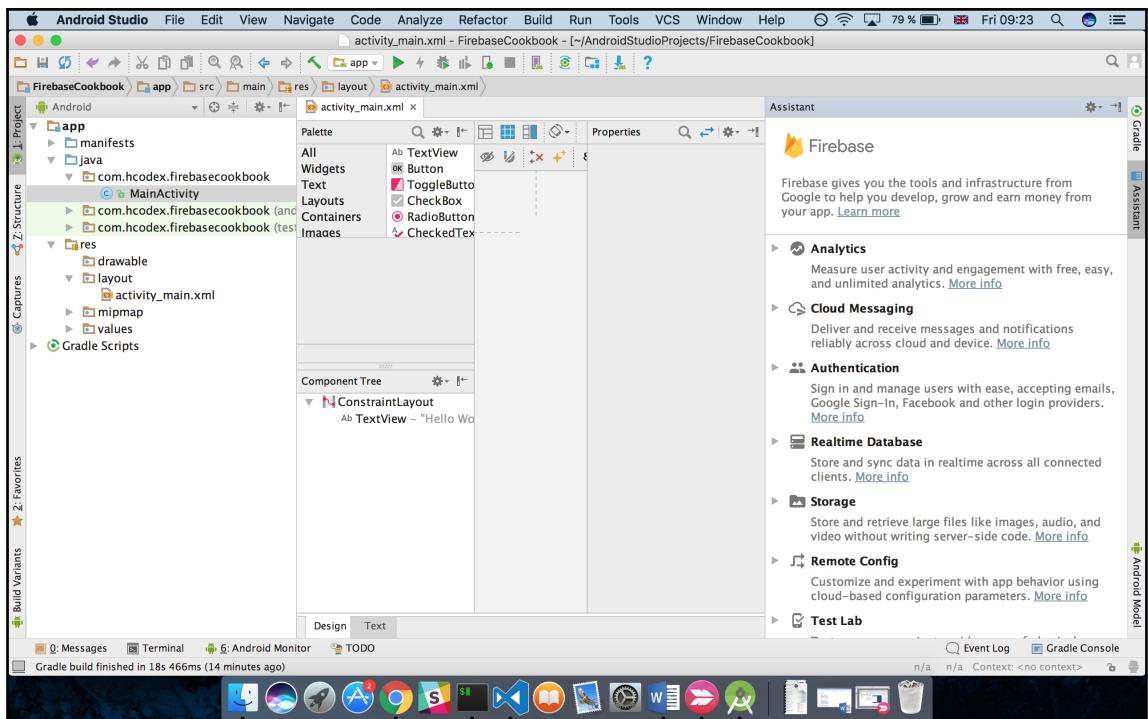
Discover Firebase

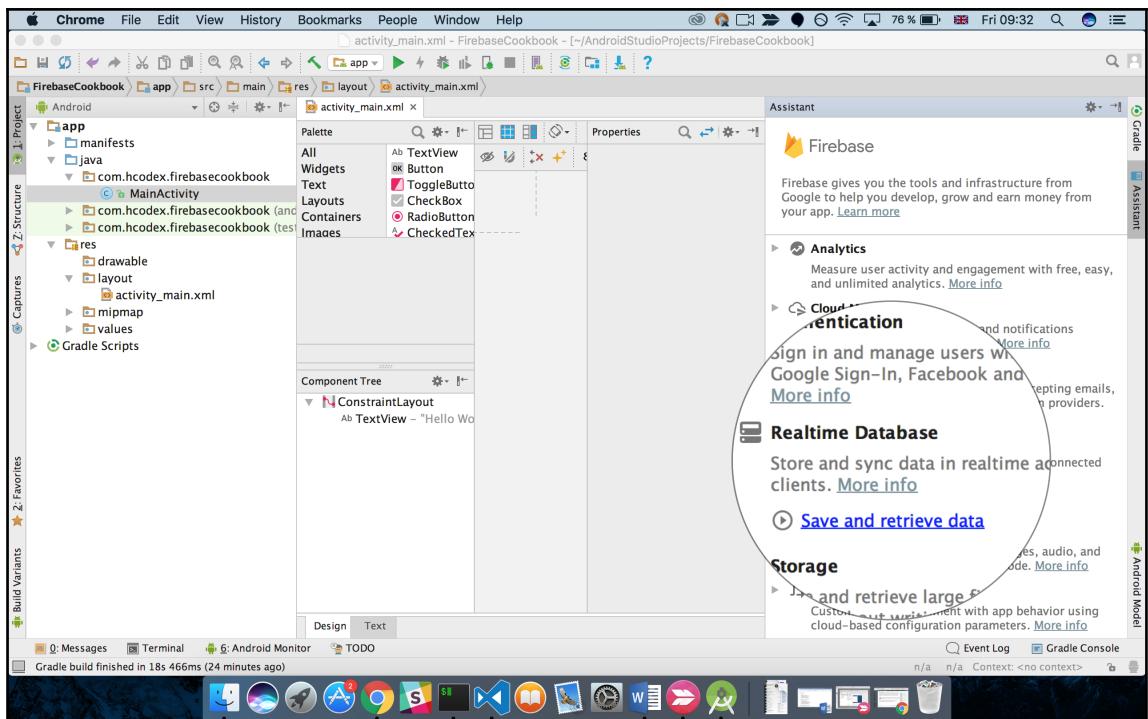


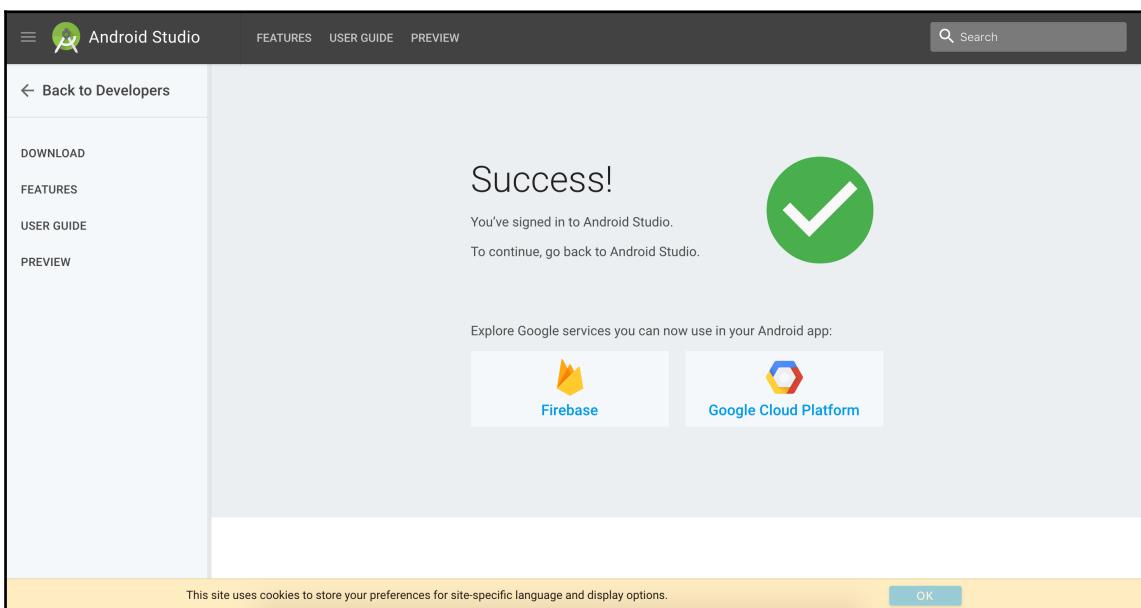
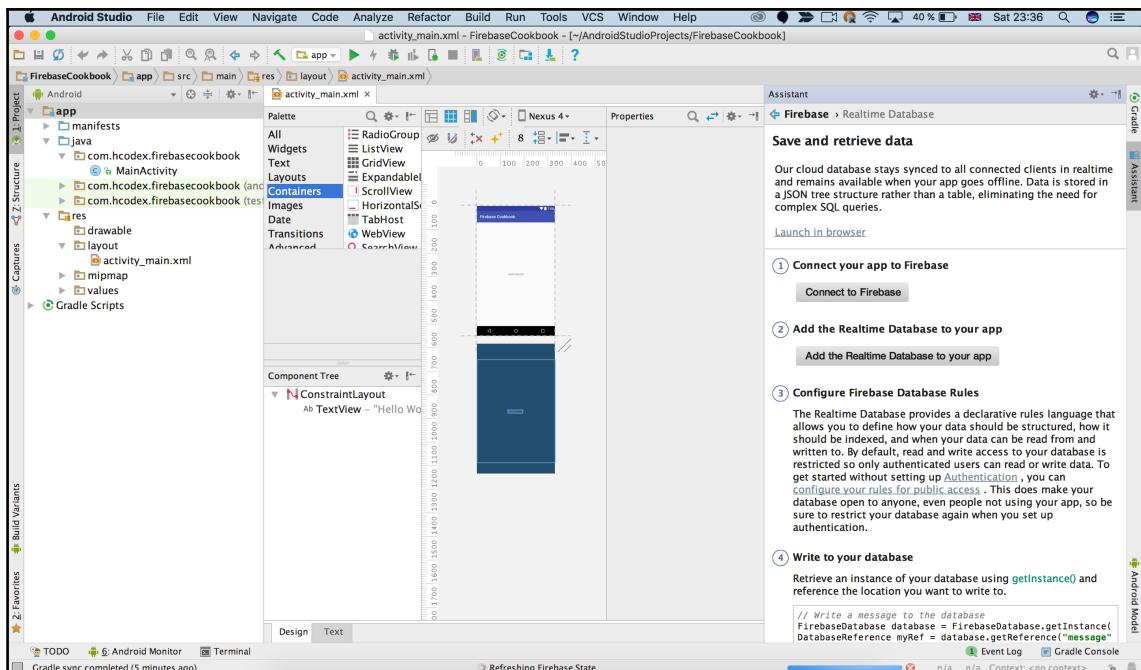
The screenshot shows the Firebase console interface. On the left, there's a sidebar with various services: Analytics, Authentication, Database, Storage, Hosting, Functions, Test Lab, Crash Reporting, Notifications, Remote Config, and Dynamic Links. Below this is a section for 'Spark' with a 'UPGRADE' button. The main area is titled 'Overview' and contains a modal window titled 'Add Firebase to your web app'. The modal displays a script snippet for initializing Firebase in an HTML file. A 'COPY' button is visible at the bottom right of the modal. Below the modal, there's a note about checking resources for web apps, followed by links to 'Get Started with Firebase for Web Apps', 'Firebase Web SDK API Reference', and 'Firebase Web Samples'. At the bottom of the screen, there are tabs for Analytics, Authentication, and Database.

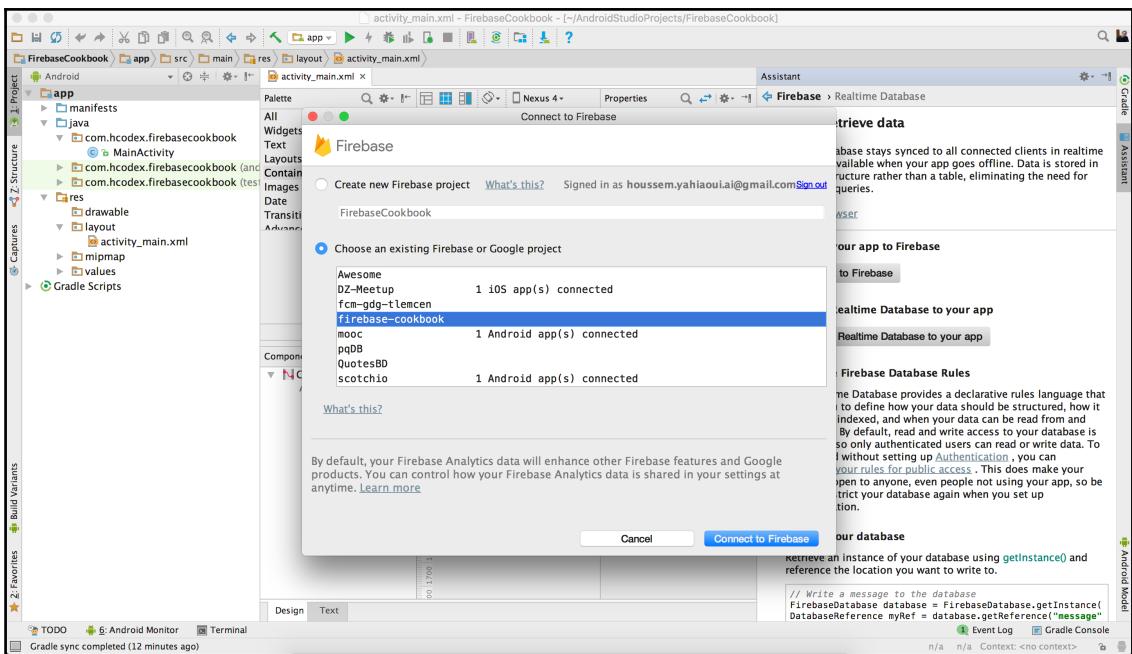
The screenshot shows the 'Welcome to Android Studio' screen. It features the Android logo at the top, followed by the text 'Android Studio' and 'Version 2.3.1'. Below this, there are several project creation options: 'Start a new Android Studio project' (highlighted with a blue background), 'Open an existing Android Studio project', 'Check out project from Version Control', 'Import project (Eclipse ADT, Gradle, etc.)', and 'Import an Android code sample'. At the bottom right, there are 'Configure' and 'Get Help' buttons.

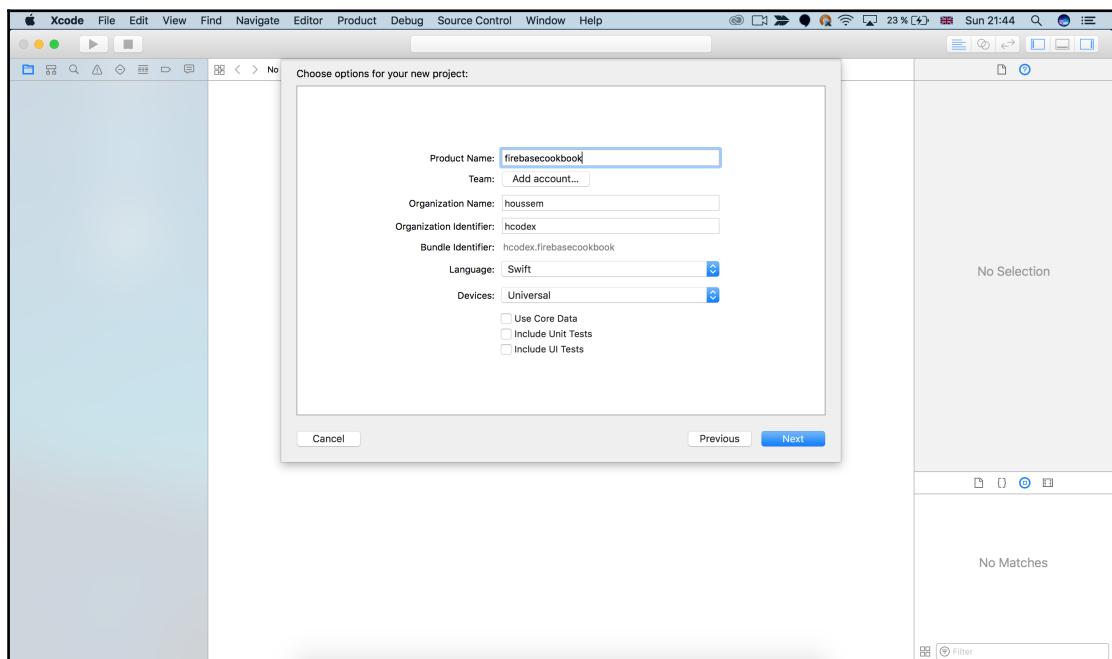
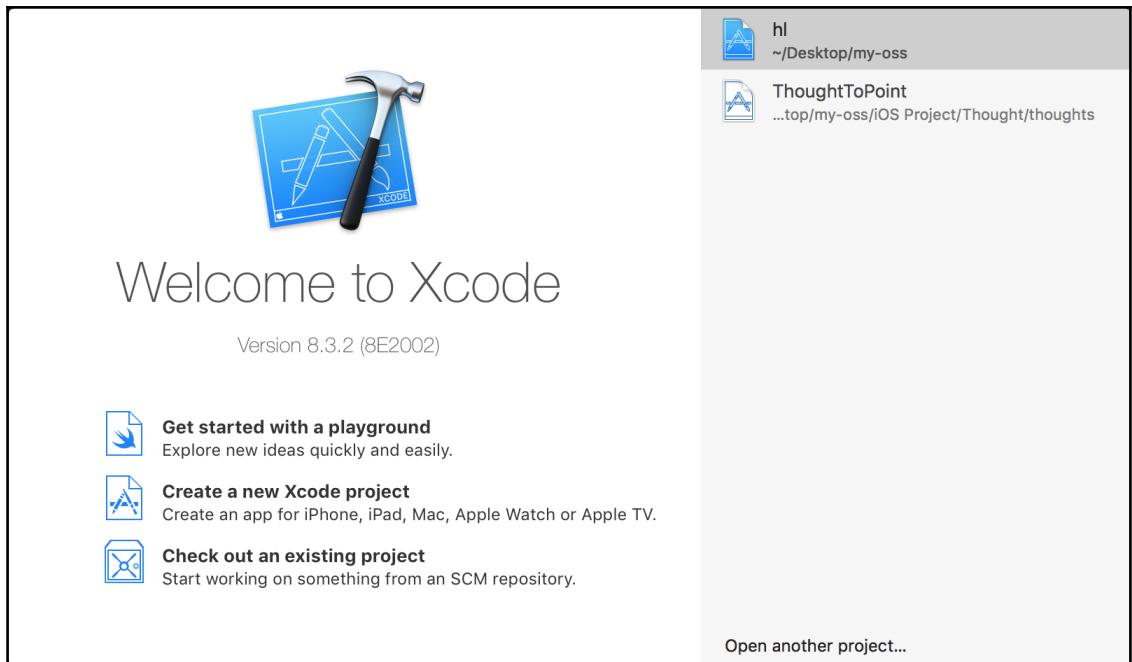


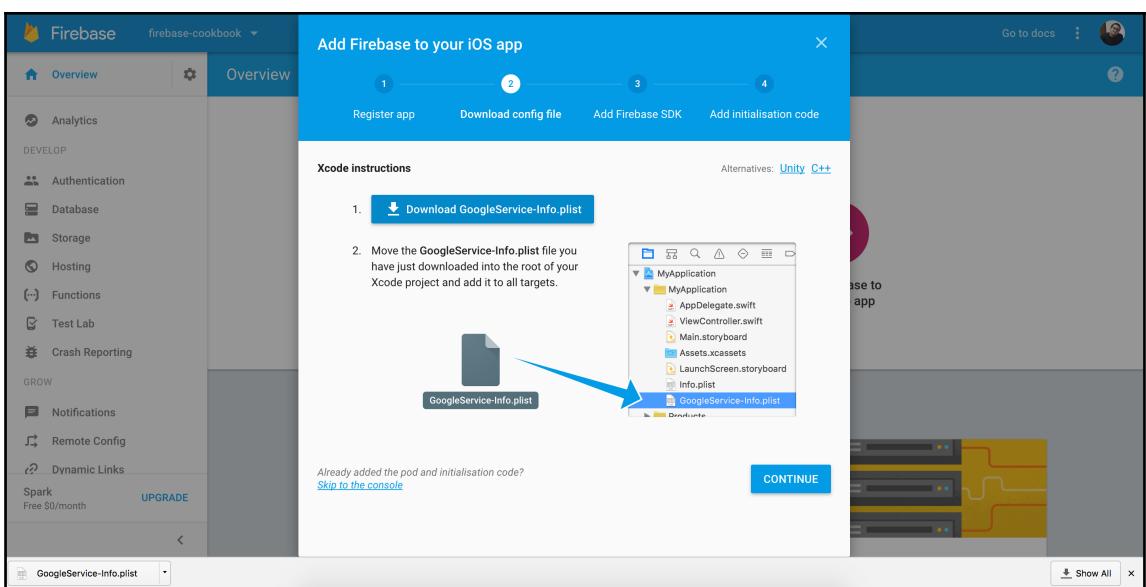
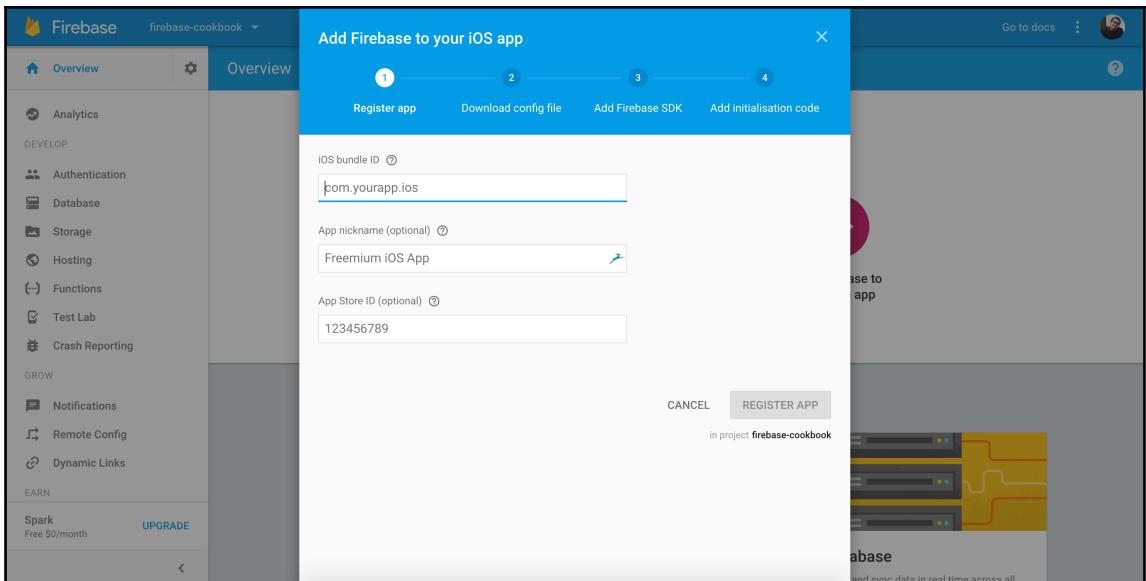


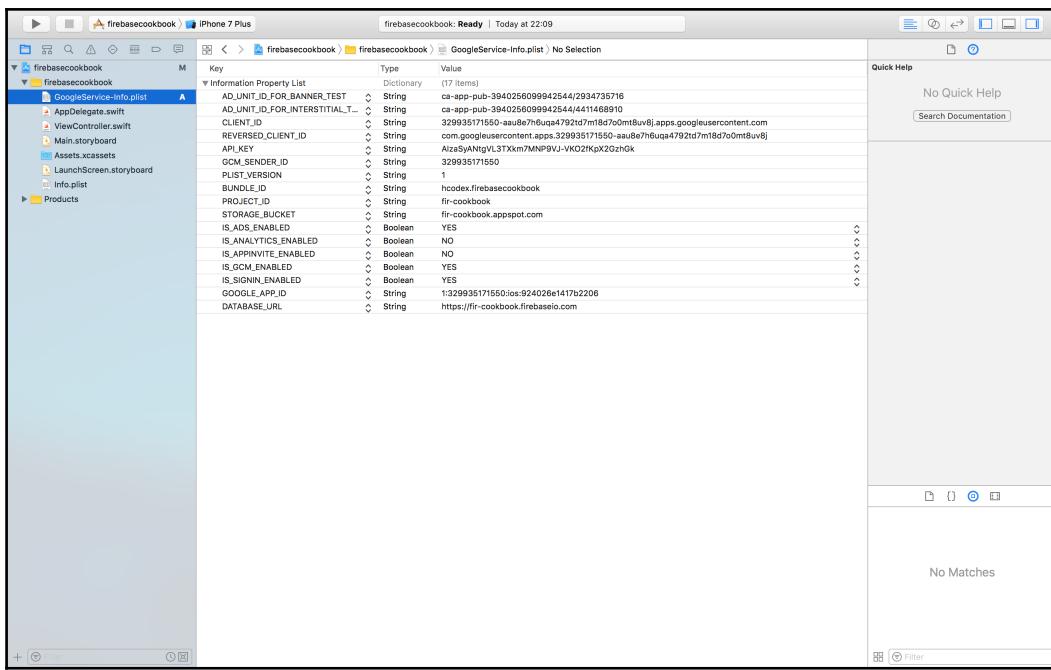




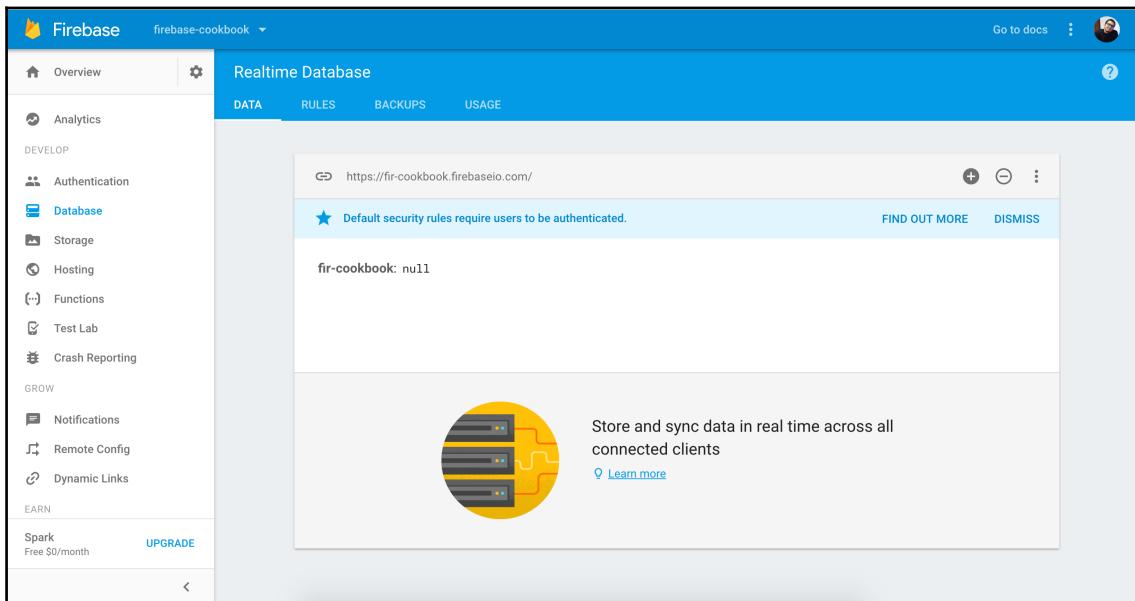




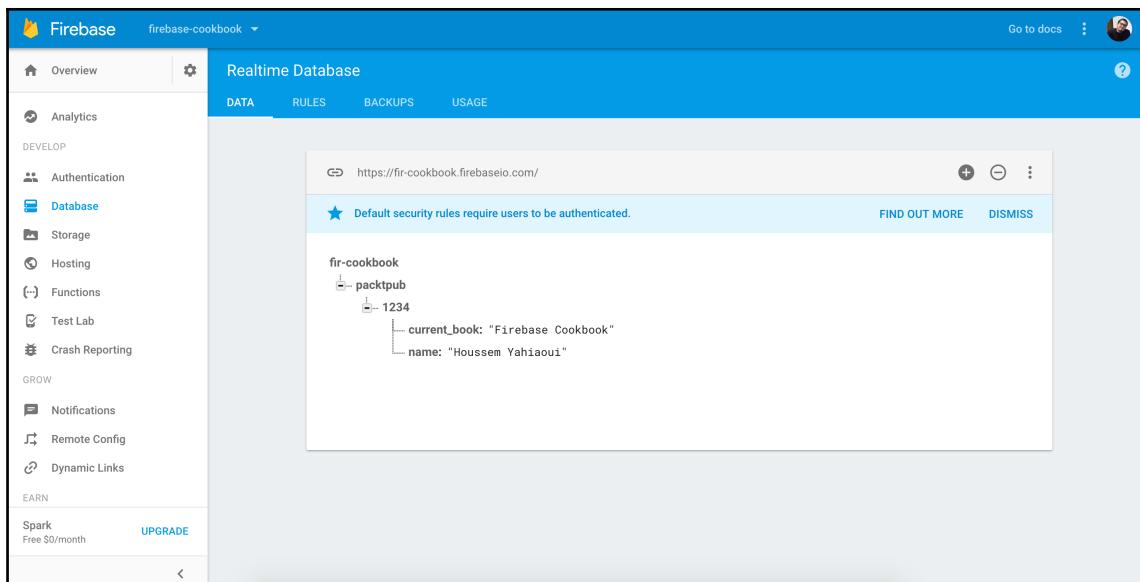




Chapter 2: Firebase Real-Time Database



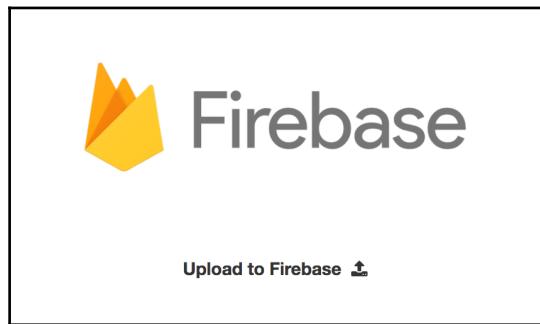
The screenshot shows the Firebase Realtime Database dashboard for the project 'firebase-cookbook'. The left sidebar includes links for Overview, Analytics, Authentication, Database (which is selected), Storage, Hosting, Functions, Test Lab, Crash Reporting, Notifications, Remote Config, and Dynamic Links. A 'Spark' plan is listed at the bottom. The main area displays the Realtime Database interface with tabs for DATA, RULES, BACKUPS, and USAGE. A message at the top states 'Default security rules require users to be authenticated.' with 'FIND OUT MORE' and 'DISMISS' buttons. Below this, a node 'fir-cookbook' is shown with its value set to 'null'. To the right of the node is a yellow circular icon containing a server rack diagram with the text 'Store and sync data in real time across all connected clients' and a 'Learn more' link.



This screenshot shows the same Firebase Realtime Database dashboard as the previous one, but with a more complex data structure. The 'fir-cookbook' node now has a child node 'packtpub' which contains a child node '1234'. The '1234' node has two children: 'current_book' with the value 'Firebase Cookbook' and 'name' with the value 'Houssem Yahiaoui'.

Chapter 3:

File Management with Firebase Storage



```
✗ firebasestorage.googleapis.com/v0/b/fir-cookbook.appspot.com/o?name=images%2FScreen%20Shot%202017-06-04%20at%202.06.38%20AM,
  POST https://firebasestorage.googleapis.com/v0/b/fir-cookbook.appspot.com/o?name=images%2FScreen%20Shot%202017-06-04%20at%20
  2.06.38%20AM.png 403 () index.html:66
  e {code: "storage/unauthorized", message_: "Firebase Storage: User does not have permission to access 'images/Screen Shot 2017-06-04
  at 2.06.38 AM.png'.", serverResponse_: {"error": {"code": 403, "message": "Permission denied. Could not perform this
  operation."}}, name_: "FirebaseError"} code: "storage/unauthorized"
  message_: "Firebase Storage: User does not have permission to access 'images/Screen Shot 2017-06-04 at 2.06.38 AM.png'."
  name_: "FirebaseError"
  serverResponse_: {"error": {"code": 403, "message": "Permission denied. Could not perform this operation."}}
  code: (...)

> message: (...)

> name: (...)

> serverResponse: (...)

▶ __proto__: Object
```

The screenshot shows the Firebase console interface for managing storage rules. On the left, a sidebar lists various services: Analytics, Authentication, Database, Storage (which is selected), Hosting, Functions, Test Lab, Crash Reporting, and Performance. Below this is a 'GROW' section with links for Notifications, Remote Config, and Dynamic Links. A 'Spark' plan is shown as 'Free \$0/month' with an 'UPGRADE' button. The main area is titled 'Storage' and contains tabs for 'FILES' and 'RULES'. The 'RULES' tab is active, displaying the following JSON code:

```
1  service firebase.storage {  
2      match /{bucket}/o {  
3          match /{allPaths=**} {  
4              allow read, write: if request.auth != null;  
5          }  
6      }  
7  }  
8
```

This screenshot is nearly identical to the one above, showing the same Firebase console interface and storage rules configuration. The only difference is in the 'allow read, write: if request.auth != null;' line, where the 'read' and 'write' permissions have been swapped, resulting in a syntax error:

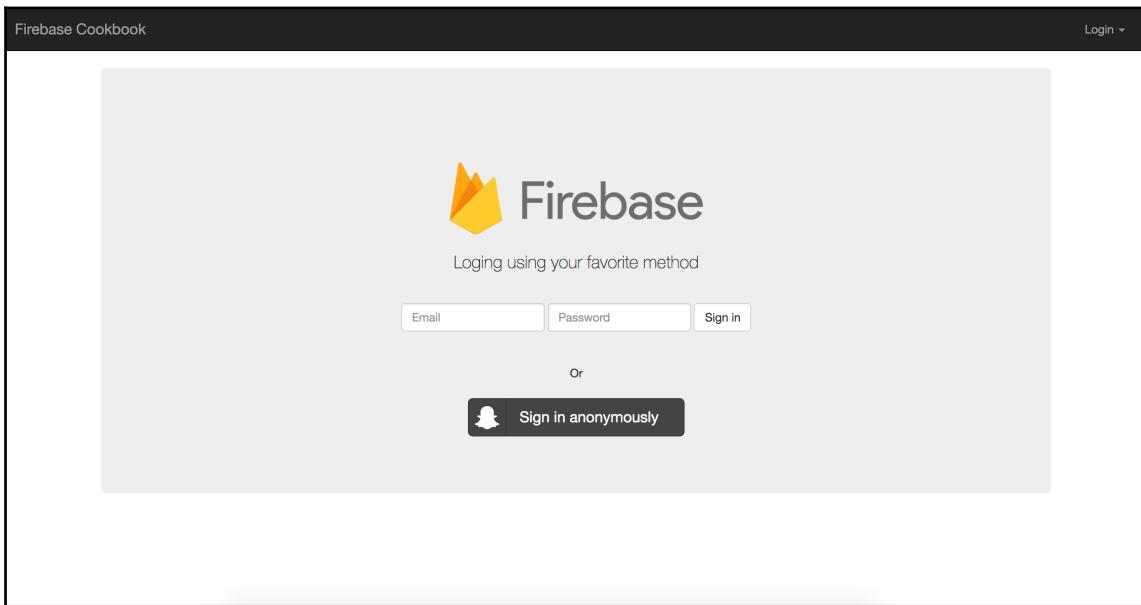
```
1  service firebase.storage {  
2      match /{bucket}/o {  
3          match /{allPaths=**} {  
4              allow write, read: if request.auth != null;  
5          }  
6      }  
7  }  
8
```

The screenshot shows the Firebase Storage interface. On the left, there's a sidebar with various development tools like Analytics, Authentication, Database, Storage, Hosting, Functions, Test Lab, Crash Reporting, and Performance. Below that, there are sections for Notifications, Remote Config, and Dynamic Links. A 'Spark' plan is listed with a 'UPGRADE' button. The main area is titled 'Storage' and shows a table with one item: a folder named 'images/'. The table has columns for Name, Size, Type, and Last modified.

	Name	Size	Type	Last modified
<input type="checkbox"/>	images/	—	Folder	—

```
Download Url : https://firebasestorage.googleapis.com/v0/b/fir-cookbook.appspot.com/o/imag...t%2011.44.18%20AM.p index.html:71
ng?alt=media&token=e39d5a92-811c-4227-bb26-ba6cb9536a68
file uploaded with success congrats index.html:65
>
```

Chapter 4: Firebase Authentication



A screenshot of the Firebase console interface, specifically the "Authentication" section for a project named "firebase-cookbook". The left sidebar shows various services like Analytics, Storage, Hosting, Functions, Test Lab, Crash Reporting, Performance, Notifications, Remote Config, and Dynamic Links. The "Authentication" service is selected. The main area is titled "Authentication" and contains tabs for "USERS", "SIGN-IN METHOD", and "TEMPLATES". Under "SIGN-IN METHOD", the "Sign-in providers" section lists several providers: Email/Password, Phone, Google, Facebook, Twitter, GitHub, and Anonymous, all of which are currently "Disabled". At the bottom of this section, there is a "Authorized Domains" field with a placeholder "http://www.yourdomain.com" and a blue "ADD DOMAIN" button.

Firebase firebase-cookbook Go to docs ⚙️

Overview Analytics DEVELOP Authentication Database Storage Hosting Functions Test Lab Crash Reporting Performance GROW Notifications Remote Config Dynamic Links Spark Free \$0/month UPGRADE

Authentication

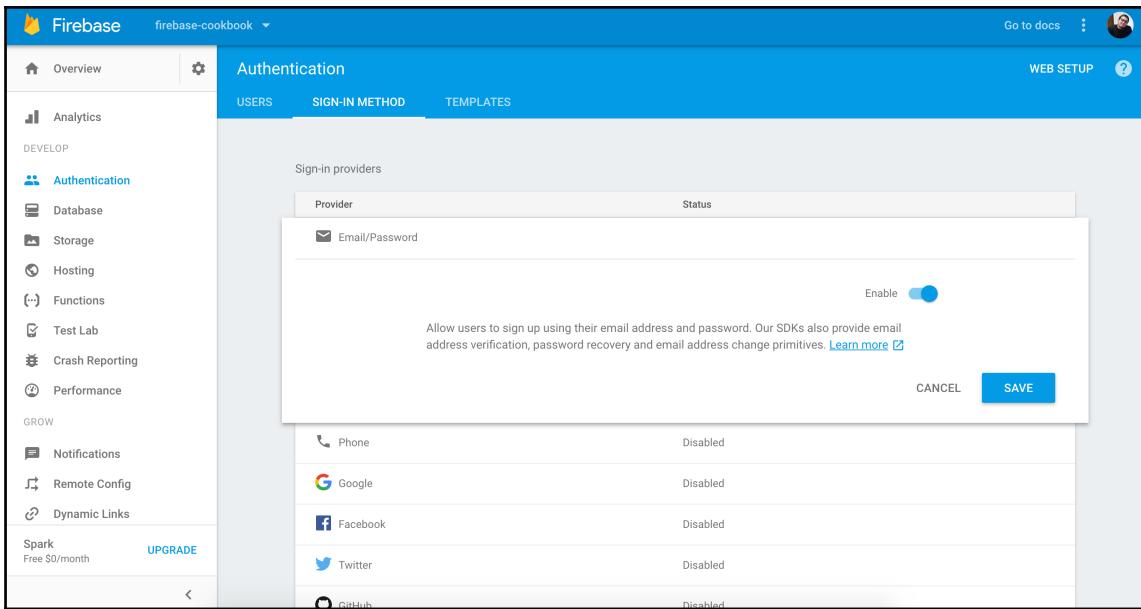
USERS SIGN-IN METHOD TEMPLATES

Sign-in providers

Provider	Status
Email/Password	Enable <input checked="" type="checkbox"/>
Phone	Disabled
Google	Disabled
Facebook	Disabled
Twitter	Disabled
Github	Disabled

Allow users to sign up using their email address and password. Our SDKs also provide email address verification, password recovery and email address change primitives. [Learn more](#)

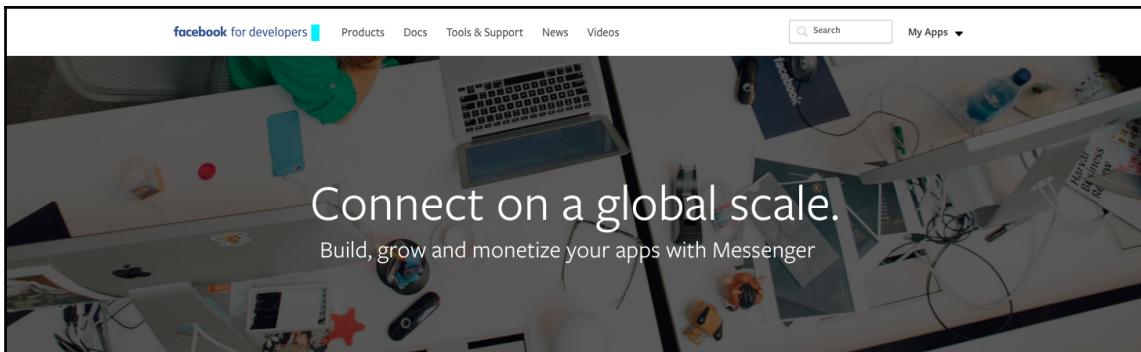
CANCEL SAVE



facebook for developers Products Docs Tools & Support News Videos Search My Apps ▾

Connect on a global scale.

Build, grow and monetize your apps with Messenger



Facebook Login
Account Creation in two taps

Sharing on Facebook
Promote your app or website organically

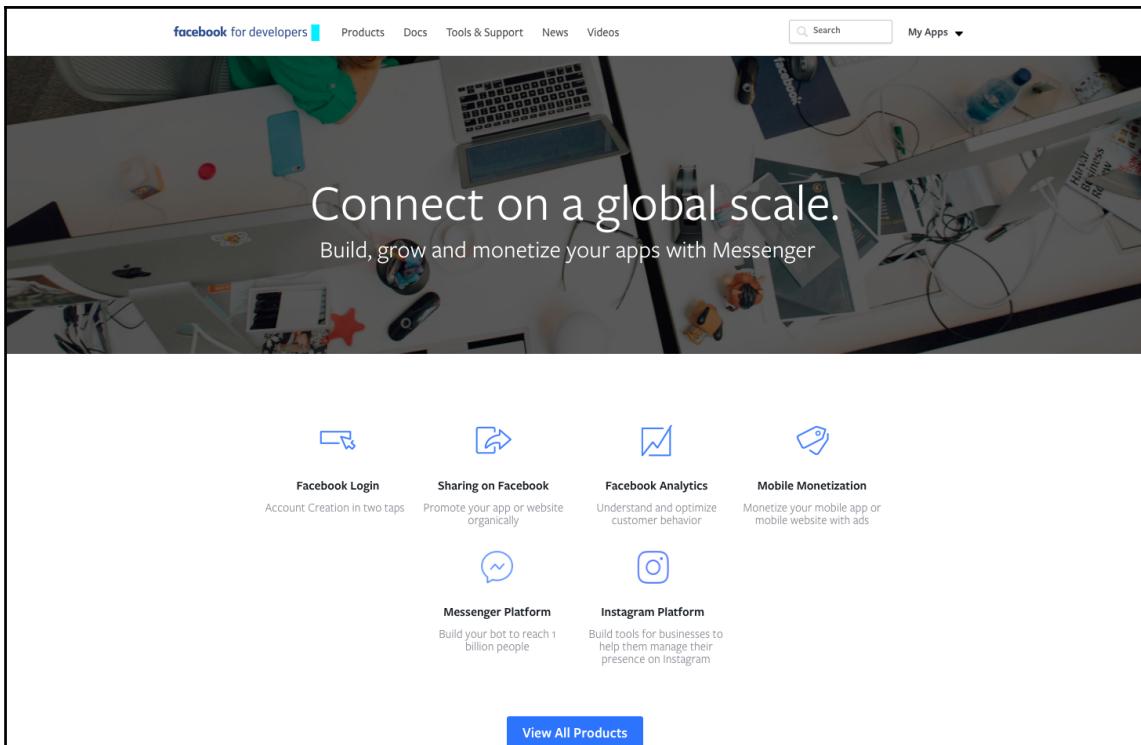
Facebook Analytics
Understand and optimize customer behavior

Mobile Monetization
Monetize your mobile app or mobile website with ads

Messenger Platform
Build your bot to reach 1 billion people

Instagram Platform
Build tools for businesses to help them manage their presence on Instagram

View All Products



[facebook for developers](#) Products Docs Tools & Support News Videos Search My Apps ▾

Connect on a global scale

Build, grow and monetize your apps with Internet.org

[Add a New App](#)

Requests Developer Settings Company Settings Log Out of Facebook

 **Facebook Login**
Account Creation in two taps

 **Sharing on Facebook**
Promote your app or website organically

 **Facebook Analytics**
Understand and optimize customer behavior

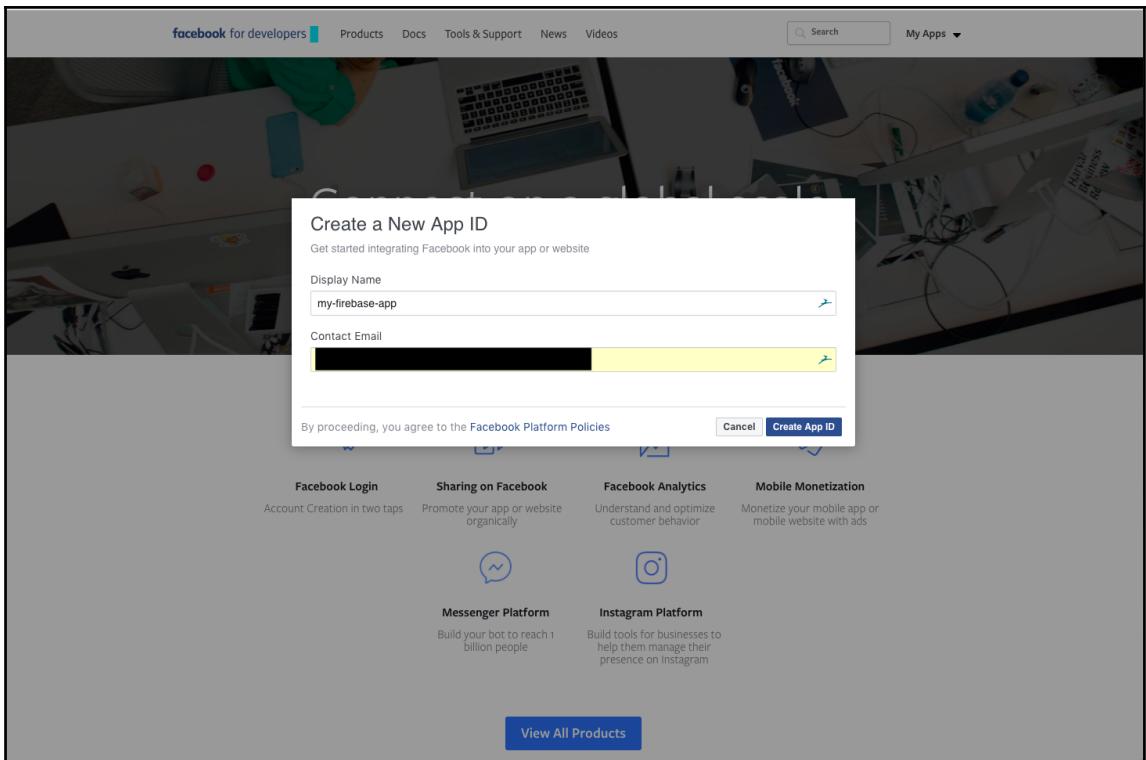
 **Mobile Monetization**
Monetize your mobile app or mobile website with ads

 **Messenger Platform**
Build your bot to reach 1 billion people

 **Instagram Platform**
Build tools for businesses to help them manage their presence on Instagram

[View All Products](#)

<https://developers.facebook.com/#>



The screenshot shows the Firebase console under the "Authentication" tab for the project "firebase-cookbook". On the left sidebar, "Authentication" is selected. The main area displays provider configurations:

Provider	Status
Email/Password	Enabled
Phone	Disabled
Google	Disabled
Facebook	Enabled (switch is blue)

Below the providers, there are input fields for "App ID" and "App secret". A note at the bottom says, "To complete setup, add this OAuth redirect URI to your Facebook app configuration." followed by a link "Learn more". A redirect URI is listed as "https://fir-cookbook.firebaseioapp.com/_/auth/handler". At the bottom right are "CANCEL" and "SAVE" buttons.

The screenshot shows the 'Client OAuth Settings' section of the Facebook Login configuration. It includes the following options:

- Client OAuth Login**: Enabled (Yes). Description: Enables the standard OAuth client token flow. Secure your application and prevent abuse by locking down which token redirect URIs are allowed with the options below. Disable globally if not used. [?]
- Web OAuth Login**: Enabled (Yes). Description: Enables web based OAuth client login for building custom login flows. [?]
- Embedded Browser OAuth Login**: Disabled (No). Description: Enables browser control redirect uri for OAuth client login. [?]
- Force Web OAuth Reauthentication**: Disabled (No). Description: When on, prompts people to enter their Facebook password in order to log in on the web. [?]
- Use Strict Mode for Redirect URIs**: Enabled (Yes). Description: Only allow redirects that use the Facebook SDK or that exactly match the Valid OAuth Redirect URIs. Strongly recommended. [?]

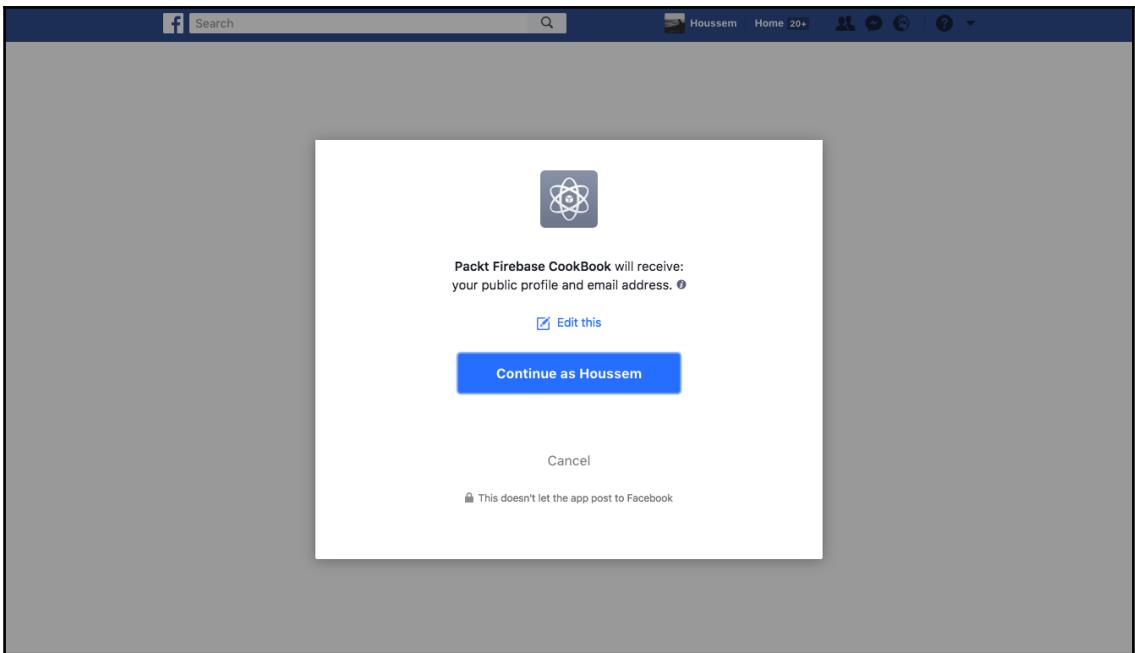
Valid OAuth redirect URIs: A text input field containing `https://www.firebaseio.com/auth/`. A large black arrow points to this field.

Deauthorize and **Deauthorize Callback URL** sections are also present.

At the bottom right are 'Discard' and 'Save Changes' buttons.

The screenshot shows the Firebase Cookbook login screen. It features the Firebase logo and the text "Logging using your favorite method". Below this are three sign-in buttons:

- Email / Password / Sign in
- Or
- Sign in anonymously
- Sign in with Facebook



Overview Analytics

DEVELOP

Authentication

Database Storage Hosting Functions Test Lab Crash Reporting Performance

GROW

Notifications Remote Config Dynamic Links

EARN

AdMob

Spark Free \$0/month UPGRADE

WEB SETUP

Authentication

USERS SIGN-IN METHOD TEMPLATES

Sign-in providers

Provider	Status
Email/Password	Enabled
Phone	Disabled
Google	Disabled
Facebook	Enabled

Twitter

Enable

API key

API secret

To complete setup, add this callback URL to your Twitter app configuration. [Learn more](#)

https://fir-cookbook.firebaseio.com/_/auth/handler

CANCEL SAVE

GitHub Disabled



Log in using your favorite method

Or

Sign in anonymously

Sign in with Twitter

Sign in with Facebook

Authorize Packt Firebase Cookbook to use your account?

[Authorize app](#) [Cancel](#)

This application will be able to:

- Read Tweets from your timeline.
- See who you follow.

Will not be able to:

- Follow new people.
- Update your profile.
- Post Tweets for you.
- Access your direct messages.
- See your email address.
- See your Twitter password.

You can revoke access to any application at any time from the [Applications tab](#) of your Settings page.
By authorizing an application you continue to operate under Twitter's [Terms of Service](#). In particular, some usage information will be shared back with Twitter. For more, see our [Privacy Policy](#).

Packt Firebase Cookbook
fir-cookbook.firebaseioapp.com/
Firebase - Twitter connection proof of concept



Firebase Overview

firebase-cookbook

Go to docs WEB SETUP

Authentication

USERS SIGN-IN METHOD TEMPLATES

Analytics

DEVELOP

Authentication

Database

Storage

Hosting

Functions

Test Lab

Crash Reporting

Performance

GROW

Notifications

Remote Config

Dynamic Links

EARN

AdMob

Spark Free \$0/month UPGRADE

Sign-in providers

Provider	Status
Email/Password	Enabled
Phone	Disabled
Google	Enable <input checked="" type="checkbox"/>

Google sign-in is automatically configured on your connected iOS and web apps. To set up Google sign-in for your Android apps, you need to add the SHA1 fingerprint for each app on your Project Settings.

Whitelist client IDs from external projects (optional)

Web SDK configuration (optional)

CANCEL SAVE

Facebook	Enabled
Twitter	Enabled
Github	Disabled
Anonymous	Enabled

Firebase Cookbook Login ▾

Logging using your favorite method

Email Password Sign in

Or

 Sign in anonymously

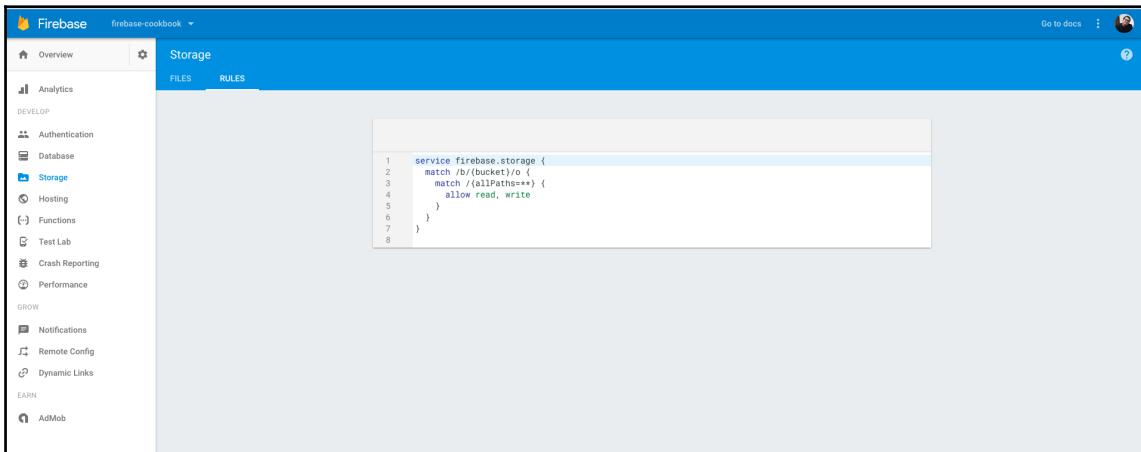
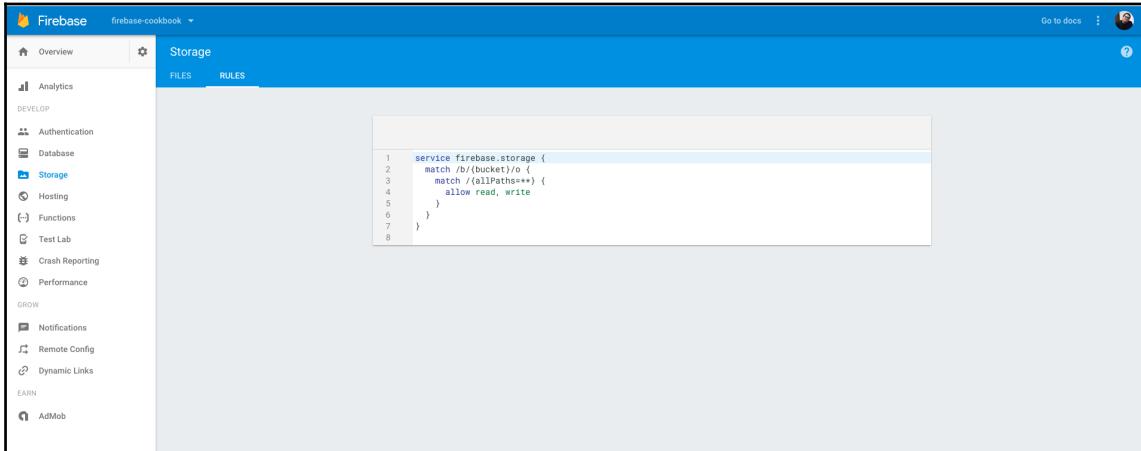
 Sign in with Twitter

 Sign in with Google

 Sign in with Facebook

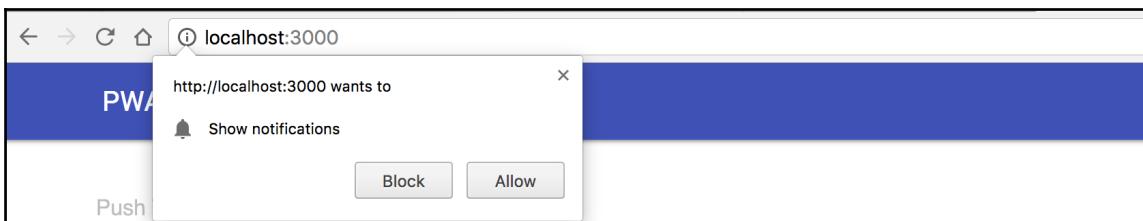
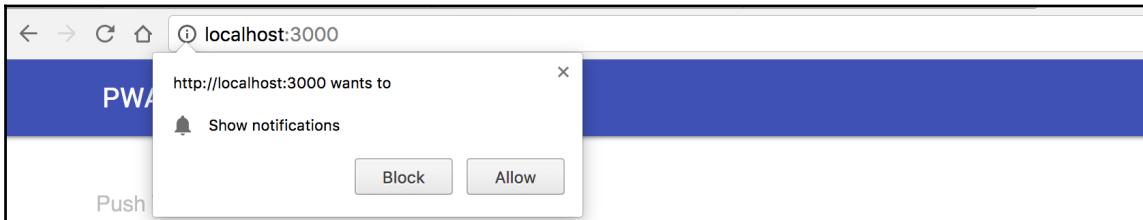
Chapter 5:

Securing Application Flow with Firebase Rules



Chapter 6:

Progressive Applications Powered by Firebase



A screenshot of the Firebase console's Overview page for the project "firebase-cookbook". The left sidebar lists various services: Analytics, Authentication, Database, Storage, Hosting, Functions, Test Lab, Crash Reporting, and Performance. The "Project settings" section is highlighted. The main area displays analytics data for the "Firebase Cookbook" app, including 0 monthly active users, \$0 estimated revenue, 0 crashes in the last 30 days, and 0 users impacted. A large "Add another app" button is visible. At the bottom, there are sections for "Discover Firebase" featuring illustrations of a person working on a laptop, a person with a badge, and server hardware.

Firebase firebase-cookbook Go to docs 

Overview 

Analytics

DEVELOP

Authentication

Database

Storage

Hosting

Functions

Test Lab

Crash Reporting

Performance

GROW

Notifications

Remote Config

Dynamic Links

Spark Free \$0/month 

Project credentials 

ADD SERVER KEY

Key	Token
Server key	AAAATNGrl94:APA91bFW1tYA74AUJaT_tA7JRhwbDS-W7iUKcQl9rxJJFSF6nGeN3laKXGlmY4wRRm3...qjL CmZyvpv8v93cARV5FaxYC7FH1fmJzK9SWL_ALpNbEsTzZ6ElfajhG0v5SToIKphmEFF
Legacy server key 	AlzaSyCK-ZX1PrOoAApw5mc_9m_ve3ZiIR_Fv7M
Sender ID 	329935171550

iOS app configuration

iOS apps	Firebase Cloud Messaging can use either an APNs authentication key or APNs certificate to connect with APNs
 Firebase Cookbook Not configured for Cloud Messaging	
	APNs Authentication Key

Chapter 7: Firebase Admin SDK

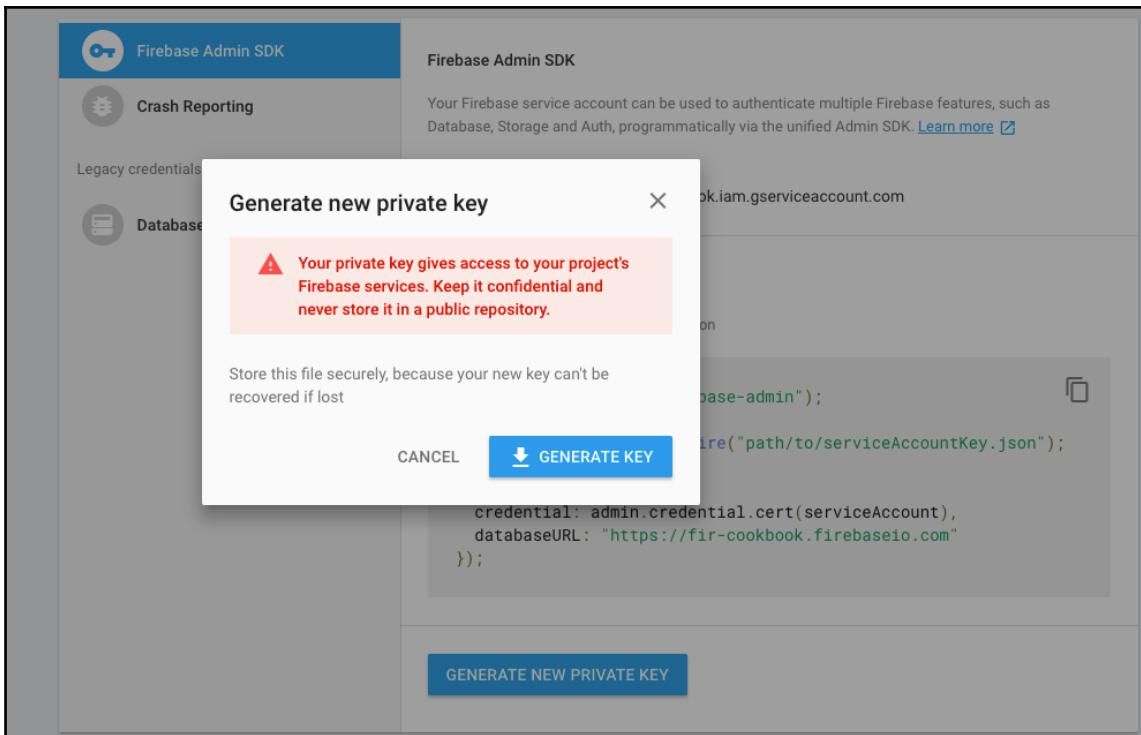
The screenshot shows the Firebase console interface for a project named "firebase-cookbook". The left sidebar contains various services like Analytics, Authentication, Database, Storage, Hosting, Functions, Test Lab, Crash Reporting, Performance, Notifications, Remote Config, Dynamic Links, EARN, and AdMob. The main area is titled "Settings" and has tabs for GENERAL, CLOUD MESSAGING, ANALYTICS, ACCOUNT LINKING, and SERVICE ACCOUNTS. The SERVICE ACCOUNTS tab is selected, showing the "Firebase Admin SDK" section. It includes links for "Crash Reporting", "Legacy credentials", and "Database Secrets". A "Manage all service accounts" button is at the top right of this section. Below it is an "Admin SDK configuration snippet" for Node.js, Java, and Python. The Node.js snippet is selected and shows the following code:

```
var admin = require("firebase-admin");

var serviceAccount = require("./path/to/serviceAccountKey.json");

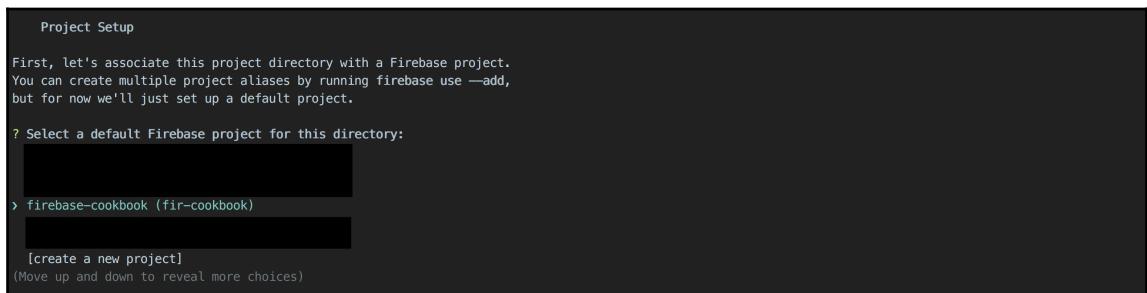
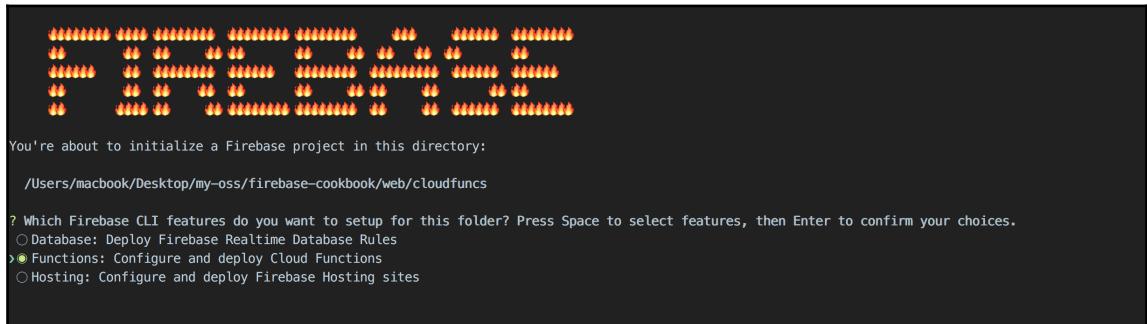
admin.initializeApp({
  credential: admin.credential.cert(serviceAccount),
  databaseURL: "https://fir-cookbook.firebaseio.com"
});
```

A "GENERATE NEW PRIVATE KEY" button is at the bottom of the snippet area.



Chapter 8:

Extend Firebase with Cloud Functions



FIRE BASE

You're about to initialize a Firebase project in this directory:

```
/Users/macbook/Desktop
```

Before we get started, keep in mind:

- * You are initializing in an existing Firebase project directory

? Which Firebase CLI features do you want to setup for this folder? Press Space to select features, then Enter to confirm your choices. Functions: Configure a nd deploy Cloud Functions

Project Setup

First, let's associate this project directory with a Firebase project. You can create multiple project aliases by running firebase use --add, but for now we'll just set up a default project.

i .firebaserc already has a default project, skipping

Functions Setup

A functions directory will be created in your project with a Node.js package pre-configured. Functions can be deployed with firebase deploy.

✓ Wrote functions/package.json
✓ Wrote functions/index.js
? Do you want to install dependencies with npm now? (Y/n) █

The screenshot shows a code editor interface with the following details:

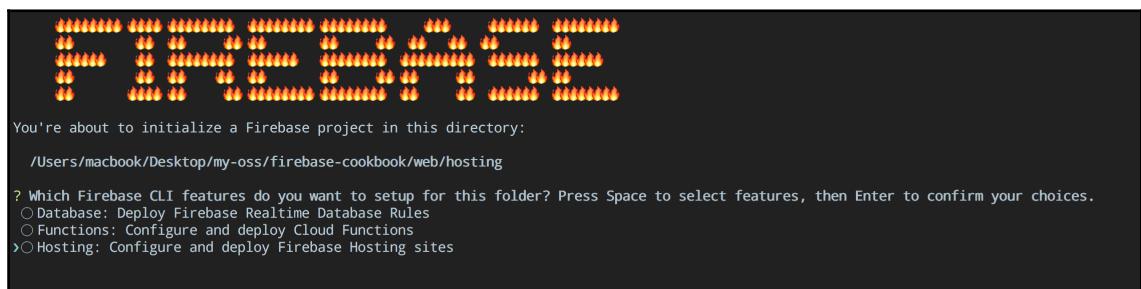
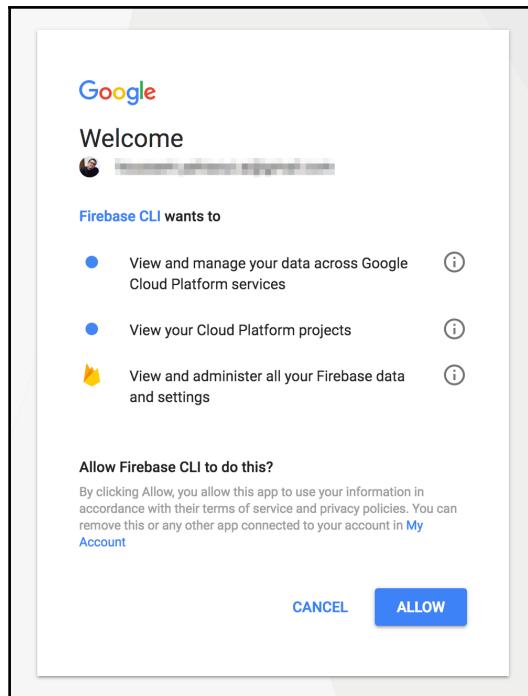
- EXPLORER** sidebar:
 - OPEN EDITORS: 1 UNSAVED
 - functions: index.js
 - CLOUDFUNCS: functions: index.js, package.json
 - node_modules: index.js
 - .firebaserc
 - firebase.json
- index.js — cloudfuncs [Unsupported]** code editor:

```
const functions = require('firebase-functions');
// Create and Deploy Your First Cloud Functions
// https://firebase.google.com/docs/functions/write-firebase-functions
exports.helloWorld = functions.https.onRequest((request, response) => {
  response.send("Hello from Firebase!");
});
```
- Bottom status bar:
 - master*
 - 0 0 ▲ 0
 - CodingTracker Local
 - Ln 9, Col 2 Spaces: 4 UTF-8 LF Javascript (Babel)
 - ESLint [off]
 - Smiley icon

The screenshot shows the Firebase Database console for a project named "firebase-cookbook". The left sidebar contains navigation links for Overview, Analytics, Authentication, Database (which is selected), Storage, Hosting, Functions, Test Lab, Crash Reporting, Performance, Notifications, Remote Config, Dynamic Links, EARN, and AdMob. A "Spark" plan is listed at the bottom of the sidebar. The main area displays the Realtime Database structure under "Database". A specific node "purchases" is expanded, showing a child node "-Kx8AvnDXvSq5Fooo04" which has a child "item" containing "name: "Iphone 6"" and "type: "PHONE"". Below this, a status message "status: 'IPHONE 6 - is a PHONE - is PENDING'" is shown. The URL https://fir-cookbook.firebaseio.com/purchases is displayed above the tree view.

Chapter 9: We're Done, Let's Deploy

```
~/Desktop/my-oss/firebase-cookbook/web/hosting master firebase login
? Allow Firebase to collect anonymous CLI usage information? Yes
Visit this URL on any device to log in:
https://accounts.google.com/o/oauth2/auth?
[REDACTED]
Waiting for authentication...
```



```
? Select a default Firebase project for this directory:  
[don't setup a default project]  
❯ firebase-cookbook (fir-cookbook)
```

Project Setup

First, let's associate this project directory with a Firebase project. You can create multiple project aliases by running `firebase use --add`, but for now we'll just set up a default project.

```
? Select a default Firebase project for this directory: firebase-cookbook (fir-cookbook)
```

Hosting Setup

Your public directory is the folder (relative to your project directory) that will contain Hosting assets to be uploaded with `firebase deploy`. If you have a build process for your assets, use your build's output directory.

```
? What do you want to use as your public directory? public
? Configure as a single-page app (rewrite all urls to /index.html)? No
✓ Wrote public/404.html
✓ Wrote public/index.html

i  Writing configuration info to firebase.json...
i  Writing project information to .firebaserc...

✓  Firebase initialization complete!
```

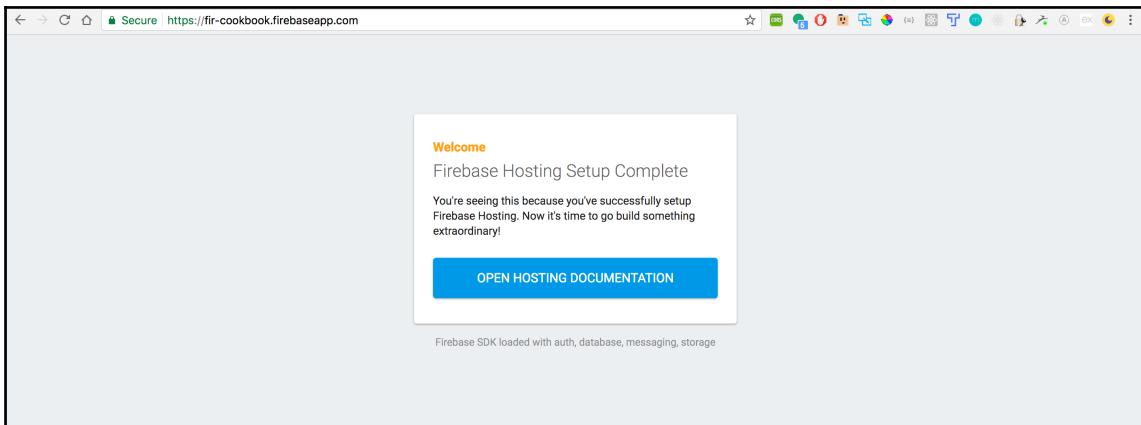
```
❯ ~/Desktop/my-oss/firebase-cookbook/web/hosting ➔ master ➔ firebase deploy
```

Deploying to 'fir-cookbook'...

```
i  deploying hosting
i  hosting: preparing public directory for upload...
✓  hosting: 2 files uploaded successfully
i  starting release process (may take several minutes)...
```

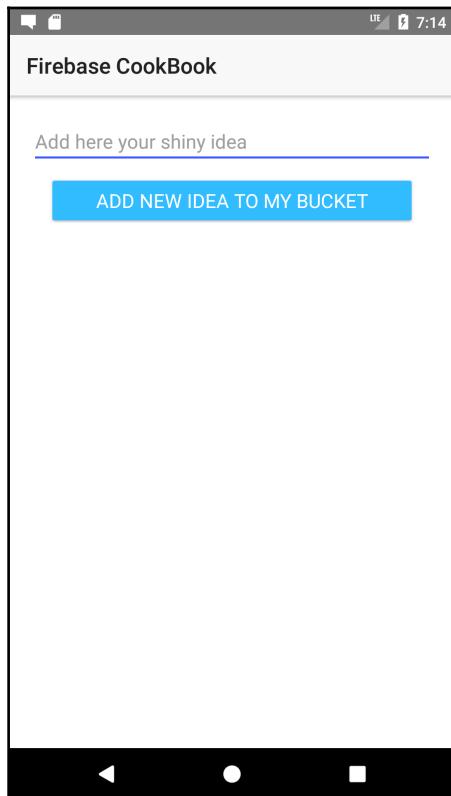
✓ Deploy complete!

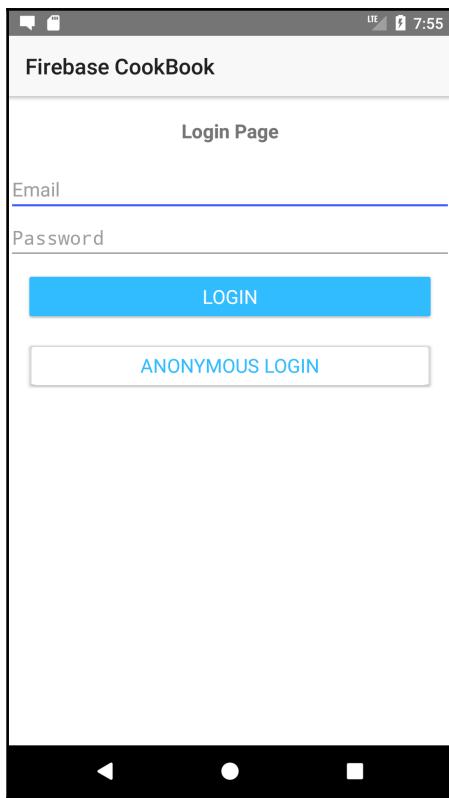
Project Console: <https://console.firebaseio.google.com/project/fir-cookbook/overview>
Hosting URL: <https://fir-cookbook.firebaseio.com>

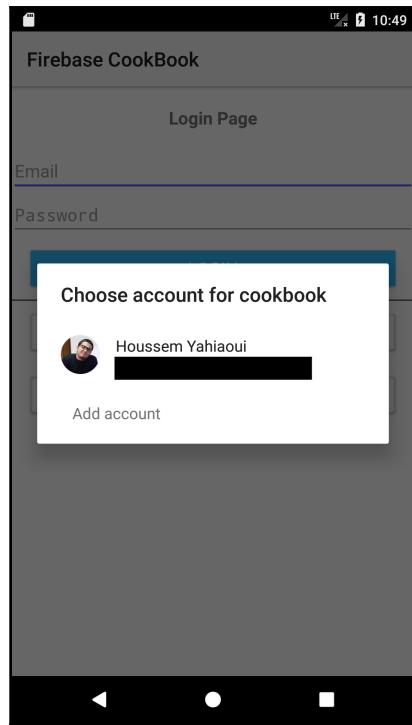


Chapter 10:

Integrating Firebase with NativeScript





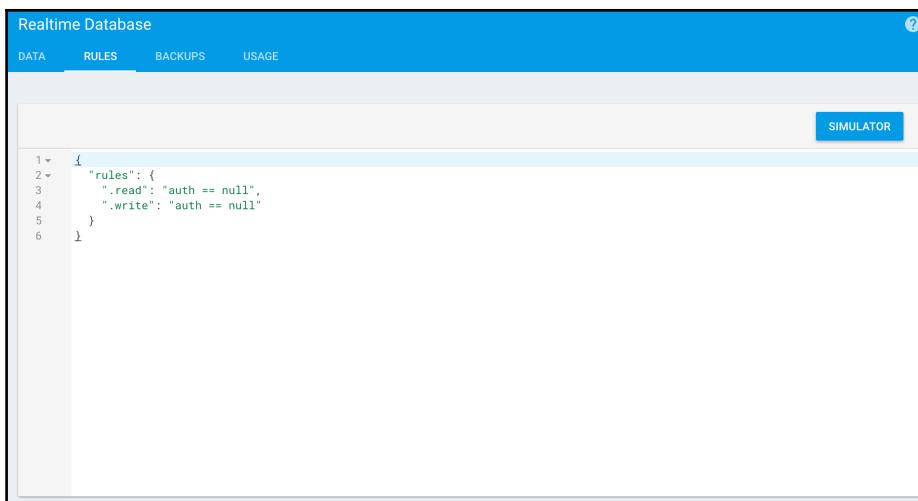
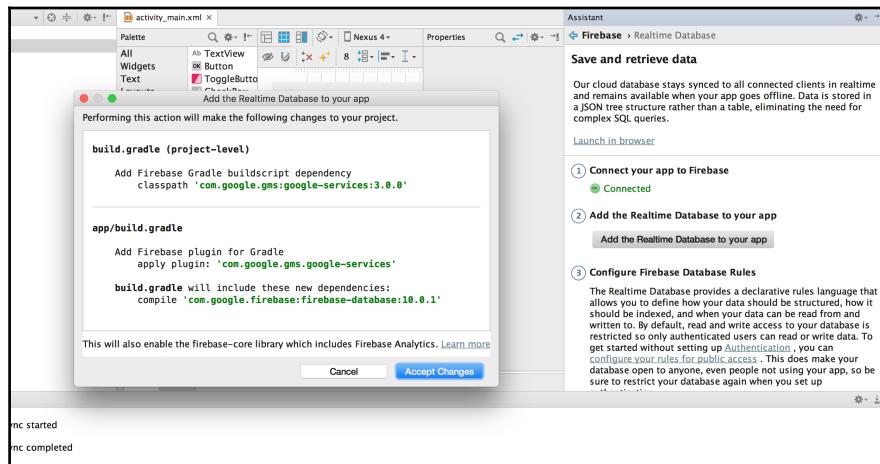


A screenshot of the Firebase console for the project "firebase-cookbook". The left sidebar shows various services like Analytics, Database, Storage, etc. The "Remote Config" service is selected. The main area is titled "PARAMETERS" and features a large callout box. Inside the box is an icon of two phones and the text: "Customise and experiment with app behaviour using server-side configuration parameters". Below this are links to "Learn more" and "View the docs". At the bottom of the callout is a blue button labeled "ADD YOUR FIRST PARAMETER" with the placeholder text "Example: holiday_promotion.enabled = true". The bottom of the screen shows the standard Firebase pricing information for the "Spark" plan.

The screenshot shows the Firebase console interface for the project "firebase-cookbook". The left sidebar includes links for Overview, Analytics, Authentication, Database, Storage, Hosting, Functions, Test Lab, Crash Reporting, Performance, Notifications, Remote Config (which is selected), Dynamic Links, AdMob, and a free Spark plan. The main content area is titled "Remote Config" under the "PARAMETERS" tab. A modal window is open, displaying a parameter configuration. The "Parameter key" field contains "ramadan_promo_enabled" and the "Default value" field contains "true". Below these fields are "CANCEL" and "ADD PARAMETER" buttons. A tooltip in the top right corner provides instructions on how to read config values from Android and iOS apps.

This screenshot shows the same Firebase console interface as the previous one, but the modal window has been closed. The parameter "ramadan_promo_enabled" is now listed in the main parameters list with its value "true". At the bottom of the list, there is a message: "Once you publish, changes are **immediately available** to your apps and users." To the right of the list are "PUBLISH CHANGES" and "DISCARD ALL" buttons.

Chapter 11: Integrating Firebase with Android/iOS Native ly



Realtime Database

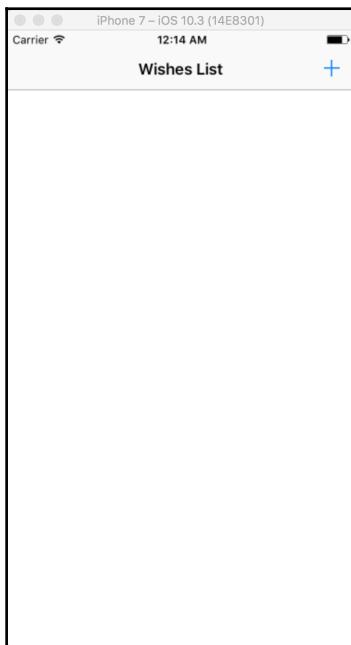
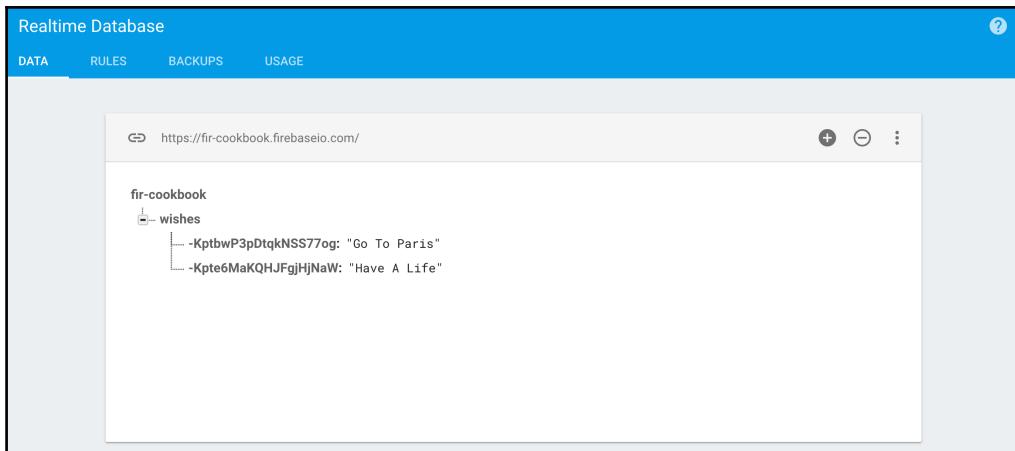
DATA RULES BACKUPS USAGE

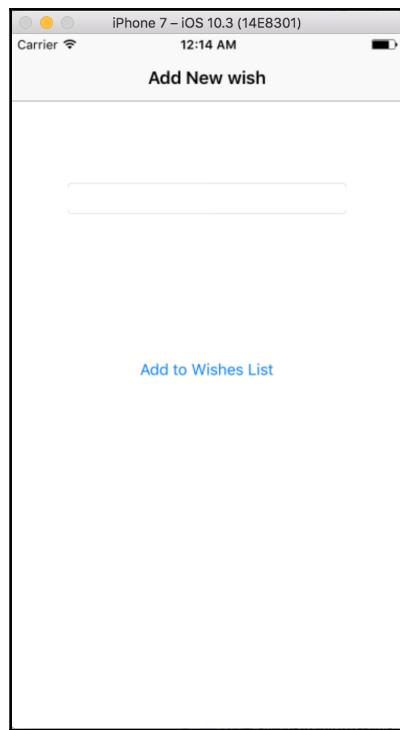
https://fir-cookbook.firebaseio.com/

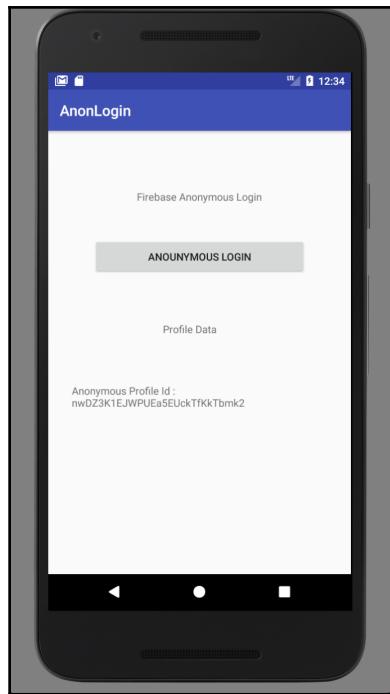
fir-cookbook

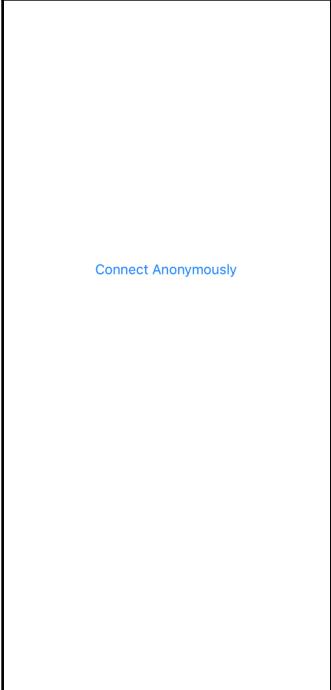
wishes

- KptbwP3pDtqkNSS77og: "Go To Paris"
- Kpte6MaKQHJFgjHjNaW: "Have A Life"

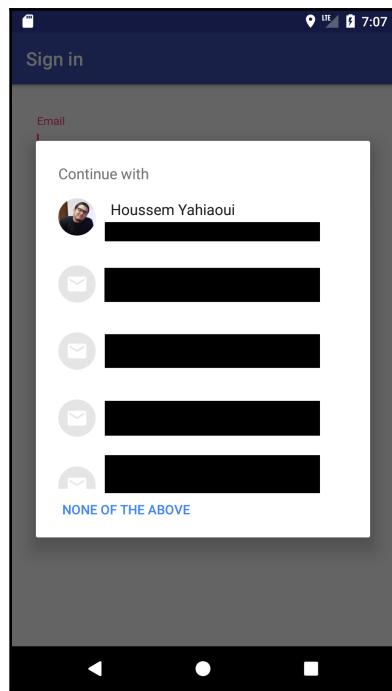


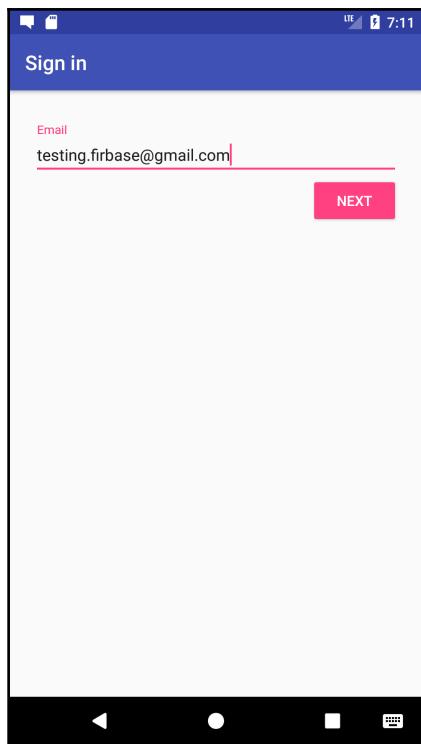


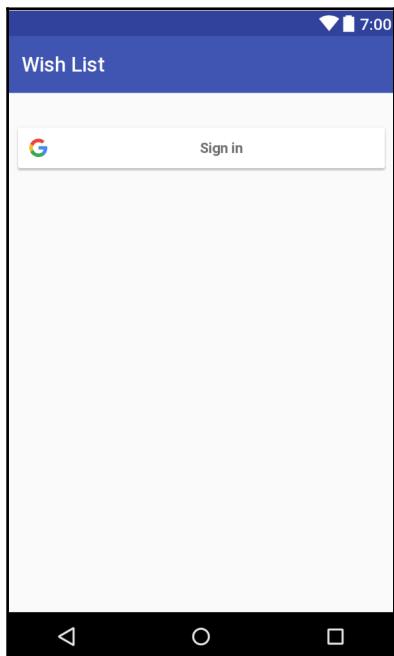
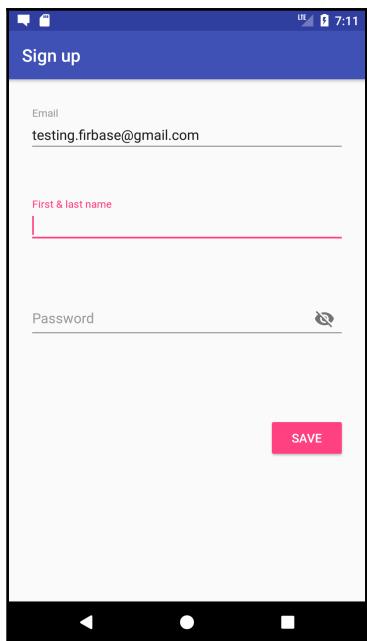


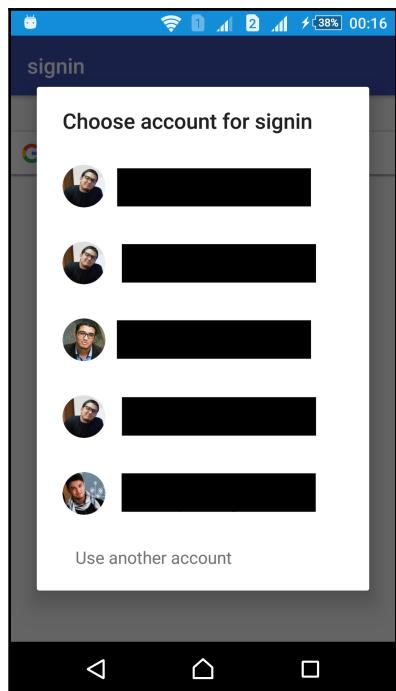


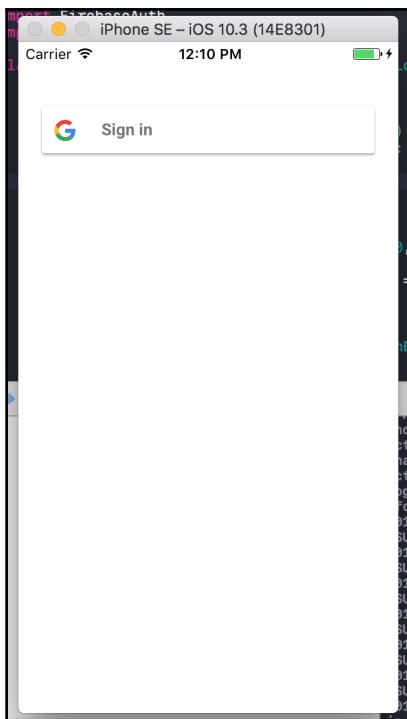
[Connect Anonymously](#)





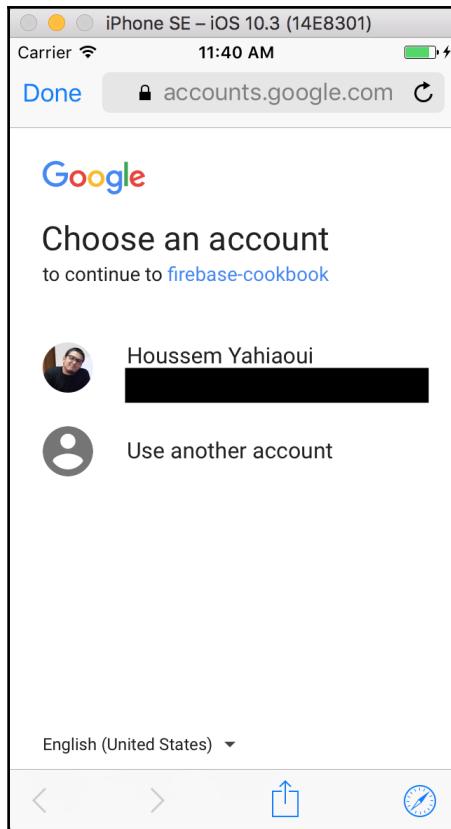


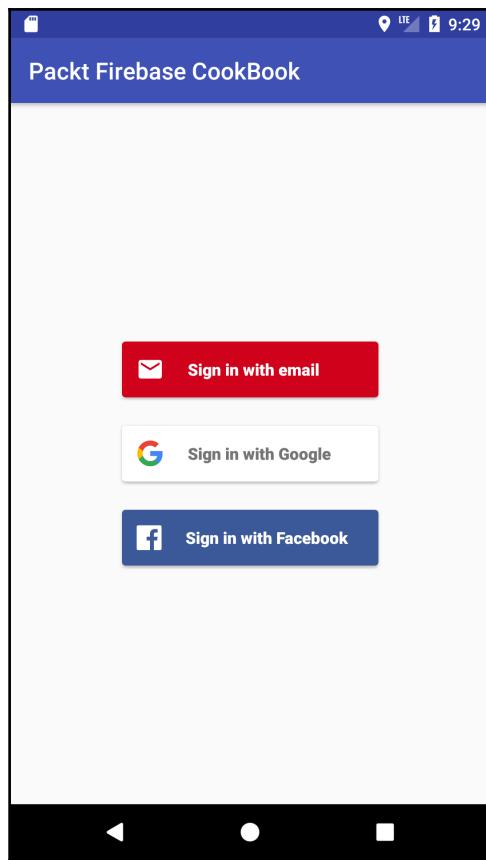




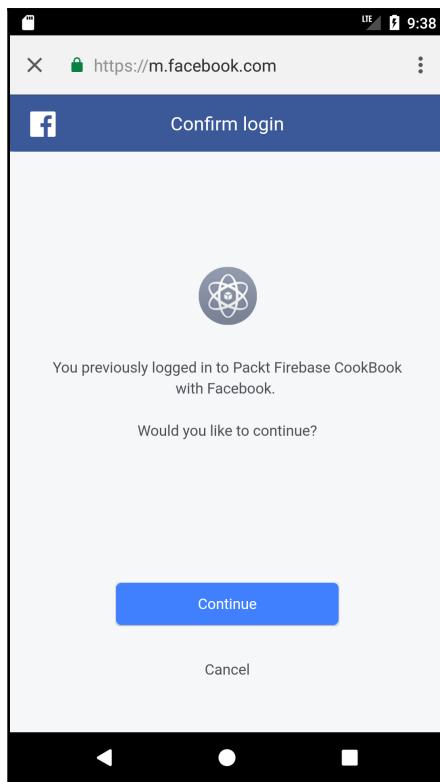
Untitled

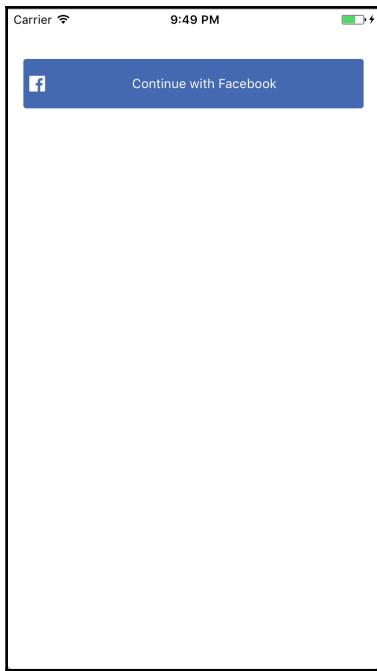
No image specified	Identifier <input type="text" value="None"/>	Icon <input type="button" value="None"/>	URL Schemes <input type="text" value="com.googleusercontent.apps.329935171550-t7q0vqje5bkvhqb5u4ij4lop crt0n7f2"/>
			Role <input type="button" value="Editor"/>
▶ Additional url type properties (0)			
+			

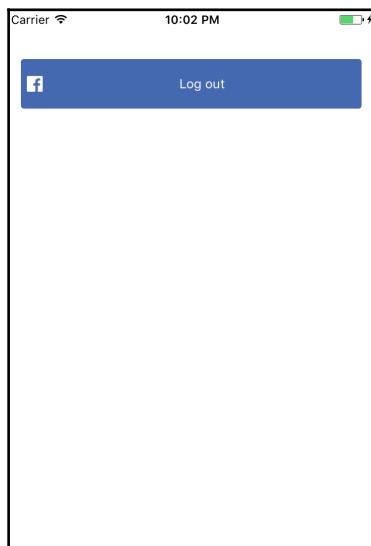
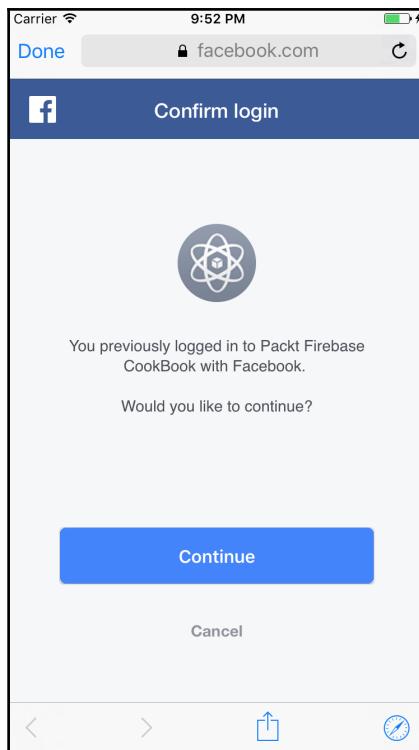




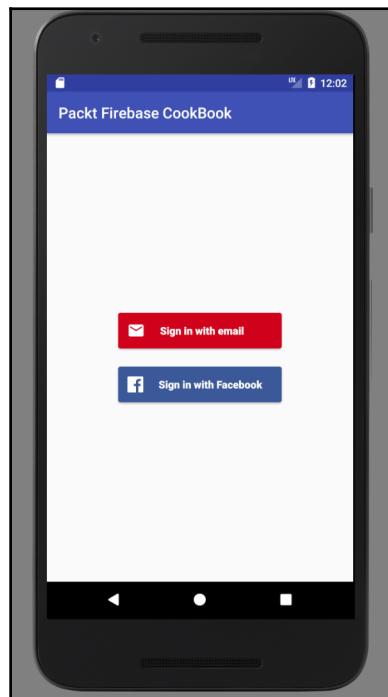








The screenshot shows the Firebase console's Settings page for the project "firebase-cookbook". The left sidebar lists various services: Analytics, Authentication, Database, Storage, Hosting, Functions, Test Lab, Crash Reporting (which is selected), Performance, Notifications, Remote Config, and Dynamic Links. The main content area is titled "Settings" and has tabs for GENERAL, CLOUD MESSAGING, ANALYTICS, ACCOUNT LINKING, and SERVICE ACCOUNTS. Under the SERVICE ACCOUNTS tab, there is a section for "Crash Reporting" which includes a "GENERATE NEW PRIVATE KEY" button.



Firebase firebase-cookbook

Overview

Analytics

Authentication

Database

Storage

Hosting

Functions

Test Lab

Crash Reporting

Performance

Notifications

Remote Config

Dynamic Links

EARN

AdMob

Spark Free \$0/month UPGRADE

PARAMETERS

Customise and experiment with app behaviour using server-side configuration parameters

Parameter key doISupportFacebookAuth Default value false Add value for condition ▾

CANCEL ADD PARAMETER

This screenshot shows the 'Remote Config' section of the Firebase console. On the left, there's a sidebar with various services like Analytics, Authentication, and Crash Reporting. The 'Remote Config' option is selected. In the main area, there's a heading 'Customise and experiment with app behaviour using server-side configuration parameters'. Below it, a table lists a single parameter: 'Parameter key' is 'doISupportFacebookAuth', and 'Default value' is 'false'. There's also a 'Add value for condition' button. At the bottom right of the table are 'CANCEL' and 'ADD PARAMETER' buttons.

Firebase firebase-cookbook

Overview

Analytics

Authentication

Database

Storage

Hosting

Functions

Test Lab

Crash Reporting

Performance

Notifications

Remote Config

Dynamic Links

EARN

AdMob

Spark Free \$0/month UPGRADE

PARAMETERS

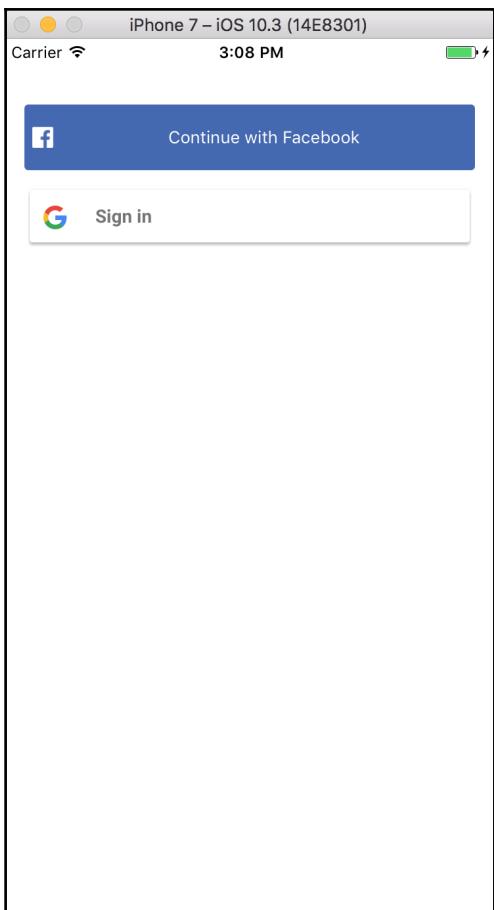
Published

Learn how to read config values from your Android and iOS apps

Search parameters, values and conditions

doISupportFacebookAuth false ADD PARAMETER

This screenshot shows the same 'Remote Config' interface as the previous one, but with a 'Published' status message at the top. The parameter table remains the same: 'doISupportFacebookAuth' with a 'false' default value. A tooltip provides instructions on how to read config values from mobile apps. The overall layout is identical to the first screenshot, with the addition of the publication status at the top.

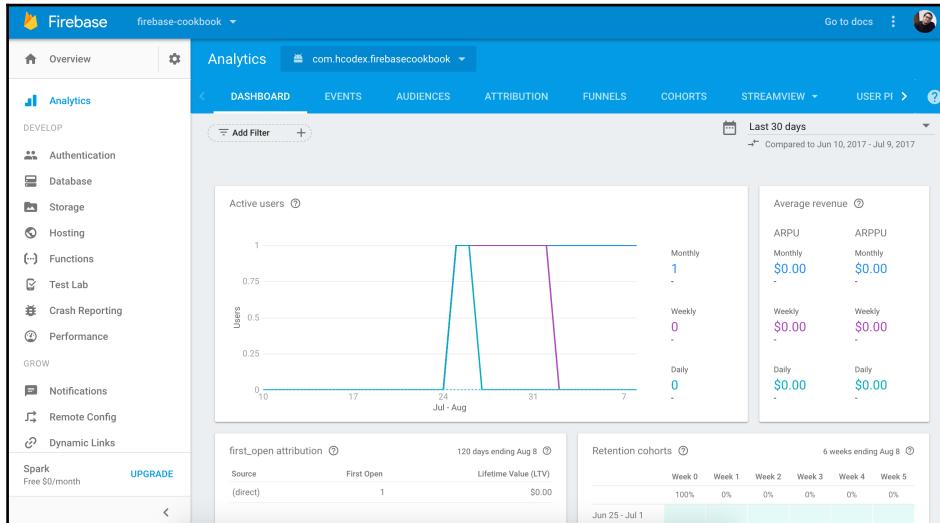


The screenshot shows the Firebase console interface for the project "firebase-cookbook". The left sidebar lists various services: Analytics, Authentication, Database, Storage, Hosting, Functions, Test Lab, Crash Reporting, Performance, Notifications, Remote Config (which is selected), and Dynamic Links. The main area is titled "Remote Config" and "PARAMETERS". It displays two parameters: "supportGoogleLogin" with a value of "false" and "doISupportFacebookAuth" with a value of "false". A search bar at the top says "Search parameters, values and conditions". At the bottom right are "CANCEL" and "ADD PARAMETER" buttons.

This screenshot shows the same Firebase console setup as the first one, but with a modal dialog box in the foreground. The dialog box contains the message: "Once you publish, changes are **immediately available** to your apps and users." It features "CANCEL" and "PUBLISH CHANGES" buttons. The background shows the "Remote Config" page with the same two parameters: "supportGoogleLogin" and "doISupportFacebookAuth", both set to "false".

Chapter 13:

Adding Analytics and Maximizing Earnings



The screenshot shows the Firebase Analytics interface for creating a new user property. The left sidebar is identical to the previous dashboard. The main area has tabs for DASHBOARD, EVENTS, AUDIENCES, ATTRIBUTION, FUNNELS, COHORTS, STREAMVIEW, and USER PROPERTIES (selected). A message "Filter not applicable" is displayed. The "NEW USER PROPERTY" button is highlighted. The form fields are as follows:

User property name *	Description
favorite_movies	A user property that defines the users favorite movies 54 / 150

Below the form, there is a section for "favorite_series":

A User Property that showcase the Users favorite series.
GOT

CANCEL CREATE

☰ Ad units

EMAIL IMPLEMENTATION INSTRUCTIONS

ADD AD UNIT VIEW FILTERED REPORT ▾ MOVE REMOVE

Search for ad units by ad unit name, ad unit ID and ad format

Ad unit	Ad unit ID	Mediation groups	Campaigns	Frequency capping (per user)
<input type="checkbox"/> Alpha	<input type="checkbox"/>	0 active	0 enabled	Not applicable

Show rows 15 ▾ 1 - 1 of 1 | < < > >|

✖ Create ad unit

FirebaseCookbook
Android

Select ad format [Edit](#)
Ad format: Native

Name ad unit & select settings

Introducing AdMob native ads

1 Design native ad styles
Use our templates as a starting point and [customise their styles](#) to fit the design of your apps

2 Validate ad designs instantly
Validate custom ad styles in realtime without submitting them to a manual approval process

3 Implement for native ads
Use the on-screen instructions to integrate the SDK and request native ads to show in your apps

4 Make changes on the fly
Edit your ad units in AdMob to make changes to their native ad styles without updating your apps

[GET STARTED](#) [Learn more](#)

Create ad unit

FirebaseCookbook
Android

Select ad format [Edit](#)
Ad format: Native

Name ad unit & select settings

Let's select an ad size first
💡 You can't change the ad size once the ad unit is saved.


Small
Width: 280dp - 1200dp
Height: 80dp - 612dp


Medium
Width: 280dp - 1200dp
Height: 132dp - 1200dp


Large
Width: 280dp - 1200dp
Height: 250dp - 1200dp

Automatic refresh Custom refresh rate: seconds (30-120 sec)
 Do not refresh

Create ad unit

FirebaseCookbook
Android

Select ad format [Edit](#)
Ad format: Native

Name ad unit & select settings

Select the large template that you want to customise


Template ID: L001


Template ID: L002


Template ID: L003

Create ad unit

Customising template: L002

Size range: Width: 280dp - 1200dp Height: 250dp - 1200dp

EDIT BASIC **EDIT CSS** **RESET**

Ad type: App install Video app install Content

Preview settings: Width: 360 dp Height: 320 dp Language: English (United Kingdom)

Body

Background: #FFFFFF

Text: rgba(0,0,0,0.7)

Title

Text: #000000

App info

Price & review: rgba(0,0,0,0.5)

Star rating: rgba(0,0,0,0.7)

Button

Background: #4CDBE99

Text: #FFFFFF

URL

Text: rgba(0,0,0,0.3)

The three preview cards show different versions of an advertisement for 'Adventure Duck'. The first card is for 'Adventure Duck the Quest!' and the second for 'Adventure Duck Goes West!'. Both cards feature a cartoon duck swimming in water, with the first card showing a 'App install' button and the second showing a 'Video app install' button.