Managing Authentication

Simone Alessandria
TRAINER, AUTHOR AND PROUD CODER

@simon_ales www.softwarehouse.it

Overview

Firebase Authentication

Database Rules

Firebase Ui

Setting Rules in the App

.read

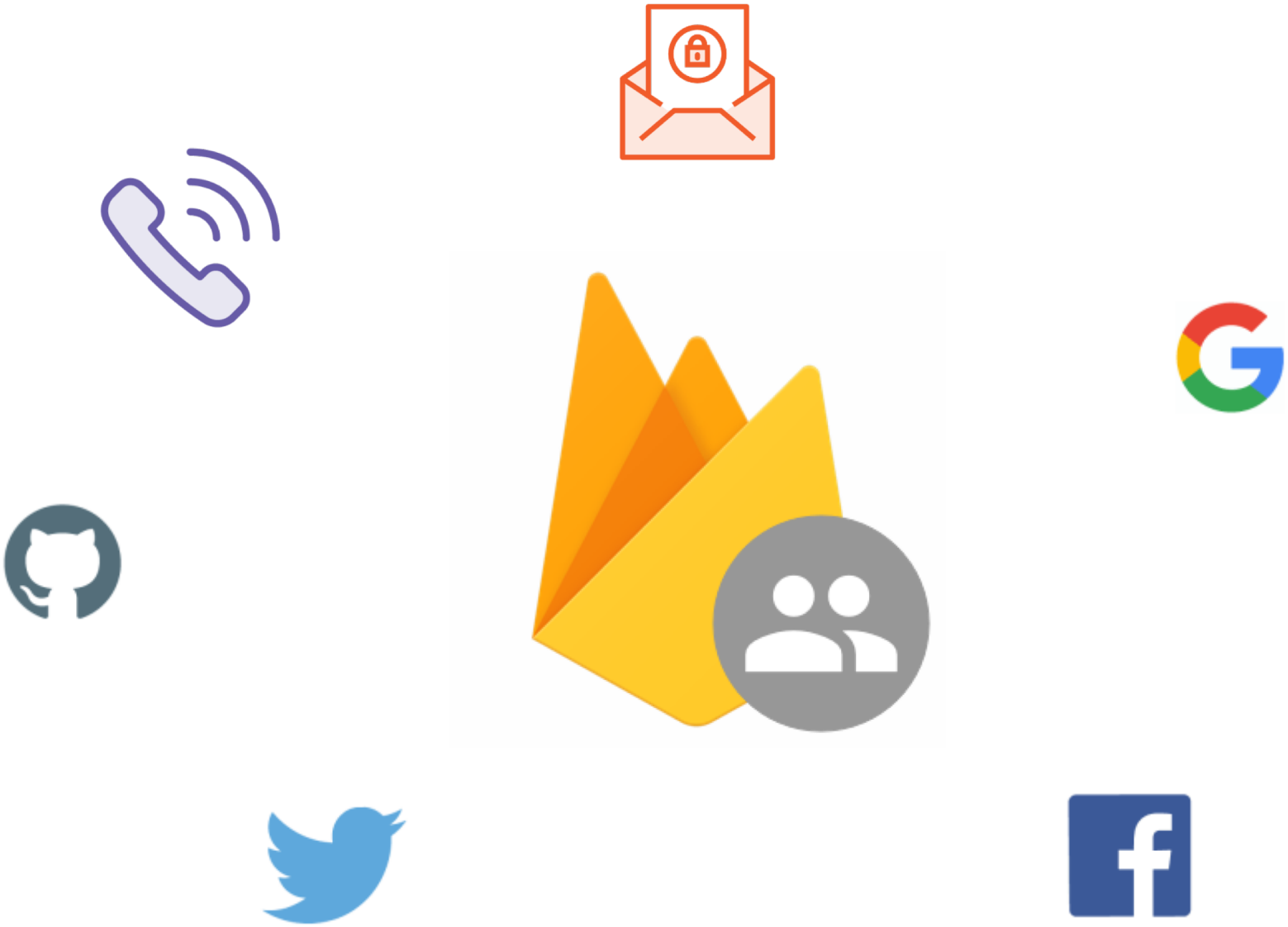
.write

.validate

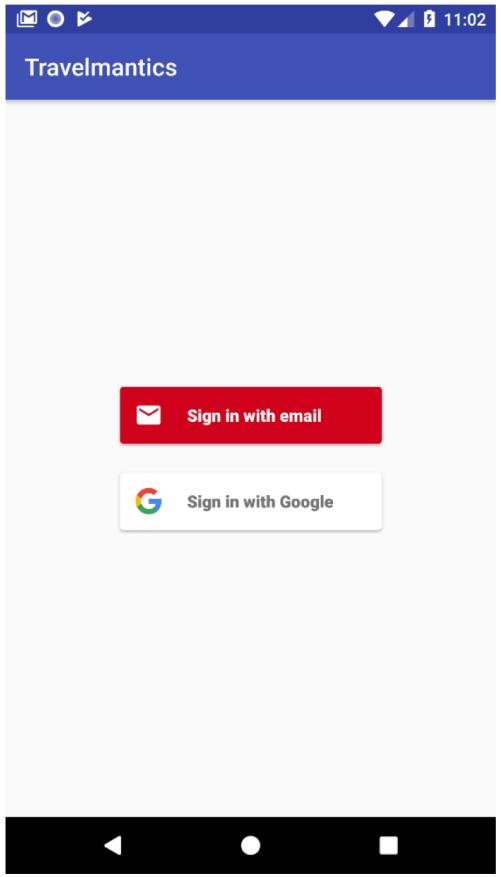
.indexOn

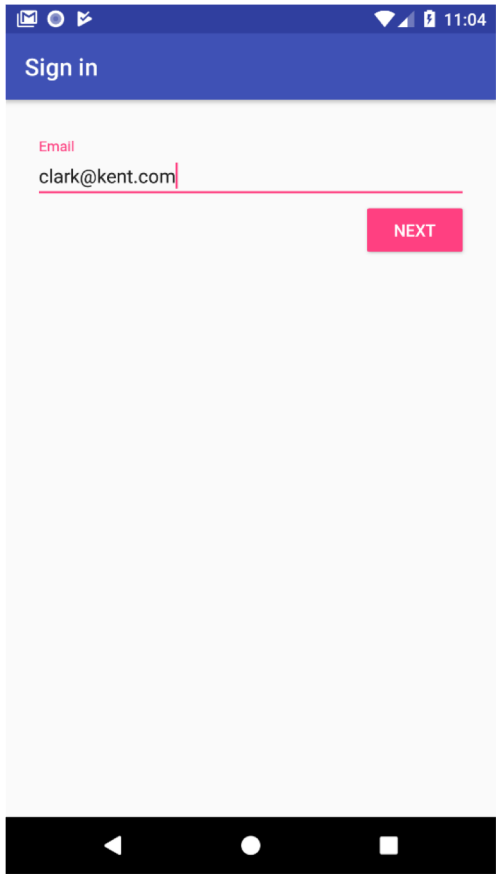
Firebase Database Rules

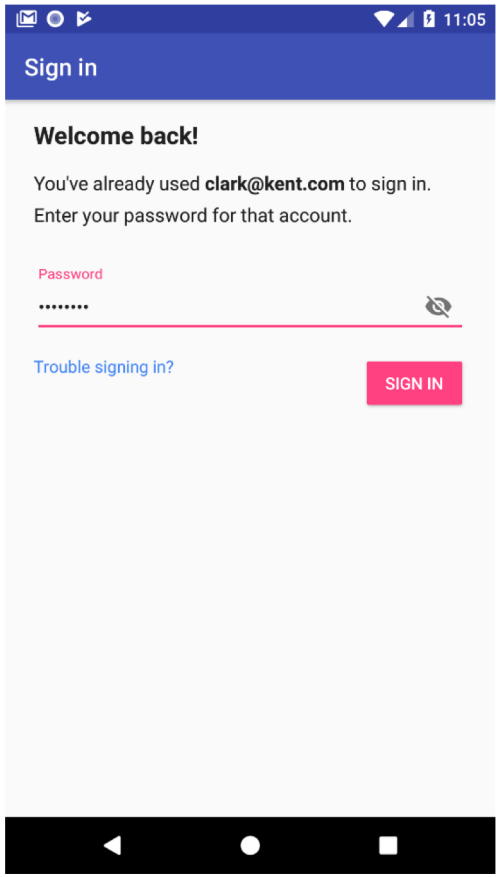
Firebase Authentication Methods



FirebaseUI

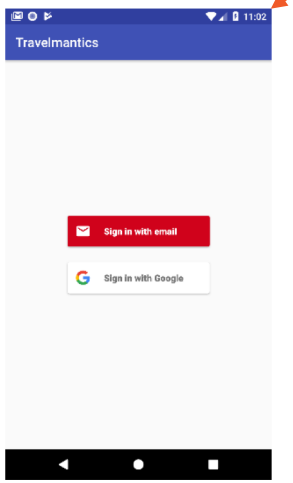

11:02
Travelmantics
Sign in with email
Sign in with Google

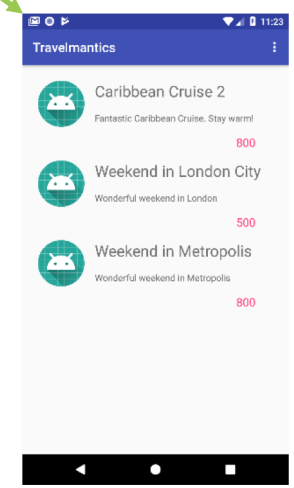

11:04
Sign in
Email
clark@kent.com
NEXT


11:05
Sign in
Welcome back!
You've already used clark@kent.com to sign in.
Enter your password for that account.
Password
Trouble signing in?
SIGN IN

Authentication

AuthStateListener





AuthStateListener

Listener called when there is a change in the authentication state

Traveldeals Rules

user

admin

Access Control

Authentication	Authorization
Who are you?	What can you do?
Verify identity	Verify permissions
Email / password, pin, fingerprint, etc.	Access to resources, read, write permissions, etc.

Firebase Database Rules

```
{
  "rules": {
    ".read": "auth != null",
    ".write": "auth != null"
  }
}
```

Firebase Database Rules: Nodes

```
{
  "rules": {
      "traveldeals": {
          ".read" : true
      }
      “offers" : {
          ".read": "auth != null"
      }
  }
}
```

Firebase Database Rules

```
{
  "rules": {
    ".read":"auth.uid != null",
    ".write":false,
    "users": {
      "$uid": {
        ".write": "$uid == auth.uid"
      }
    } …
```

Firebase Database Rules

```
{
  "rules": {
    ".read":"auth.uid != null",
    ".write":true,
    "users": {
      "$uid": {
        ".write": "$uid == auth.uid"
      }
    } …
```

Firebase Database Rules

```
{
  "rules": {
    ".read": "auth != null",
    ".write":
   “root.child(‘administrators’).hasChild(auth.uid)"
  }
}
```

Summary

- Authentication / Authorization
- Authentication Methods
- Database Rules
- AuthStateListener
- Firebase Ui