

# Introduction Firebase Database

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Feb 2017



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# Chapter 1

## Introduction

### 1.1 Into To Book

we'll be going over Firebase which is a database backend And Will Covers Some Features Which it provide . Build And Implementation Some App in android Studio which Provides Some features such as update and retrieve data, take advantage of Firebase's offline capabilities, Realtime Sync,learn how to use Firebase's Security and Rules language to secure and add permissions to your data. And show code by photos And videos, And Add Firebase to it.

### 1.2 Firebase Definition

Firebase is a Mobile (ios , Android) and Web platform with tools and infrastructure That Help Developers to build high-quality apps and earn money [2], It enables you to quickly get synchronized data up and running for multi-user apps. This is important because nearly every mobile app these days requires authentication and real-time data updates[1].



# Chapter 2

## Services



Figure 2.1: Firebase Services

Figure 2.1 Shows Tobias in Tree

## 2.1 Analytics

### 2.1.1 Firebase Analytics

Free App measurement solution that provides insight on app usage and user engagement. Analytics integrates across Firebase features and

provides you with unlimited reporting for up to 500 distinct events that you can define using the Firebase SDK[3].

## **2.2 Develop**

### **2.2.1 Firebase Cloud Messaging**

#### **2.2.2 Auth**

#### **2.2.3 Realtime database**

#### **2.2.4 Storage**

#### **2.2.5 Hosting**

#### **2.2.6 Test Lab for Android**

#### **2.2.7 Crash Reporting**

## **2.3 Grow**



## Chapter 3

# Connect Firebase To App

**3.1 Create Firebase Project**

**3.2 Add Firebase To App**

**3.3 Add Network Permission**



## Chapter 4

### Update And Retrieve Data

4.1 Update Data To Firebase Back-end

4.2 Retrieve Data From Firebase Back-end



## Chapter 5

## References

