Firebase on Android

USER EMAIL AUTHENTICATION AND VERIFICATION

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Module 1.1: Getting Started

What You'll Learn

- Register Users
- Verify Email Addresses
- Sign-in Users
- Manage User Account Properties

- Purchase a domain
- Build a website to manage users
- Implement an authentication system
  - OAuth1.0
  - OAuth2.0
  - Another Token-Based System

- Purchase a domain
- Build a website to manage users
- Implement an authentication system
- Security
- Scalability

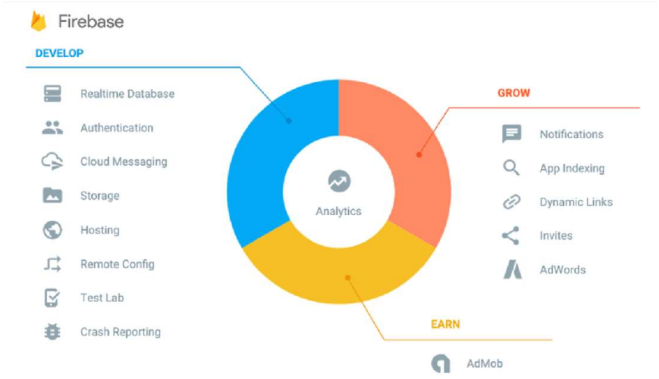
Firebase Authentication

Cloud-Based

Android

IOS

Web



User Management

Database

Hosting

Crash Reporting

Push Notifications

Cloud Functions

Authentication

- Email registration
- Login
- Verification
- Managing user accounts

Firebase Advantages

- No domain needed
- No server needed
- No cumbersome OAuth requests
- No worries about security
- No problems with scalability
- Way less time

What's the Catch?

1. **How much does it cost?**
2. **What makes it so secure?**

How Much Does It Cost?

Free to start

Firease.google.com/pricing/

What Makes It so Secure?

- Google product
- 2048 keys for the SSL certificates
- Sign tokens with SHA256 HMAC Signatures
- BCrypt for password storage

Module 1.2: Prerequisites

Prerequisite Skills

Some Android experience

Zero Firebase experience

Software Information

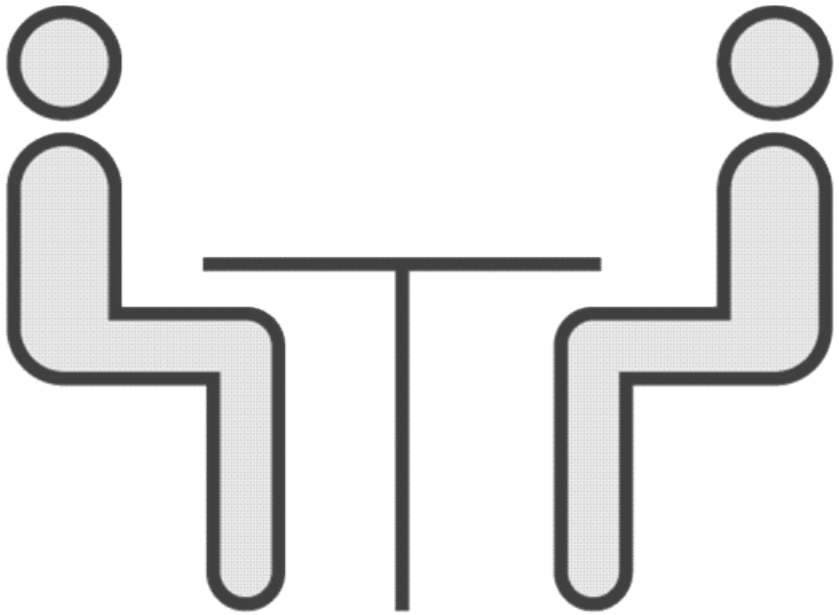
- Android Version 26
- Firebase Version 11.0.4
- Android Studio Version 2.3
- Firebase SDK
- Google Play Services SDK

Module 1.3: The Story Behind The App

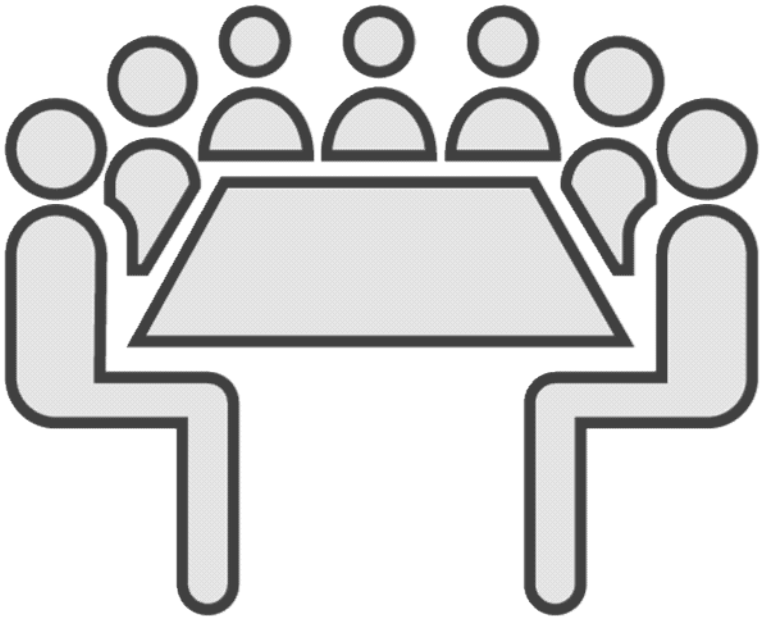
Course Story

TABIAN CONSULTING

Course Story



Course Story



Course Story

Course Story

Course Story

Secure (allow only employees)

Highly scalable

Minimize development cost and time

Secure (allow only employees)

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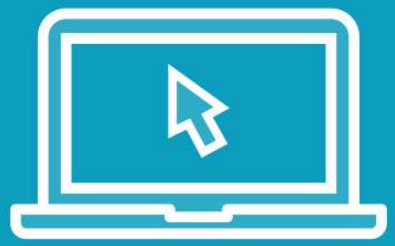
Is Firebase The Right Choice?

Absolutely!

Module 1.4: Complete App Demo

Demo



Note to Paul:
This space will be occupied by an on-screen demo of the application