Lab: Explore Google Firebase

Estimated time needed: 20 minutes

Welcome to this instructional lab, where you will learn about the different features provided by Firebase. This lab will guide you through creating a Firebase project, exploring its interface, and using its core features, such as Authentication, Database, Storage, and Machine Learning.

Objectives

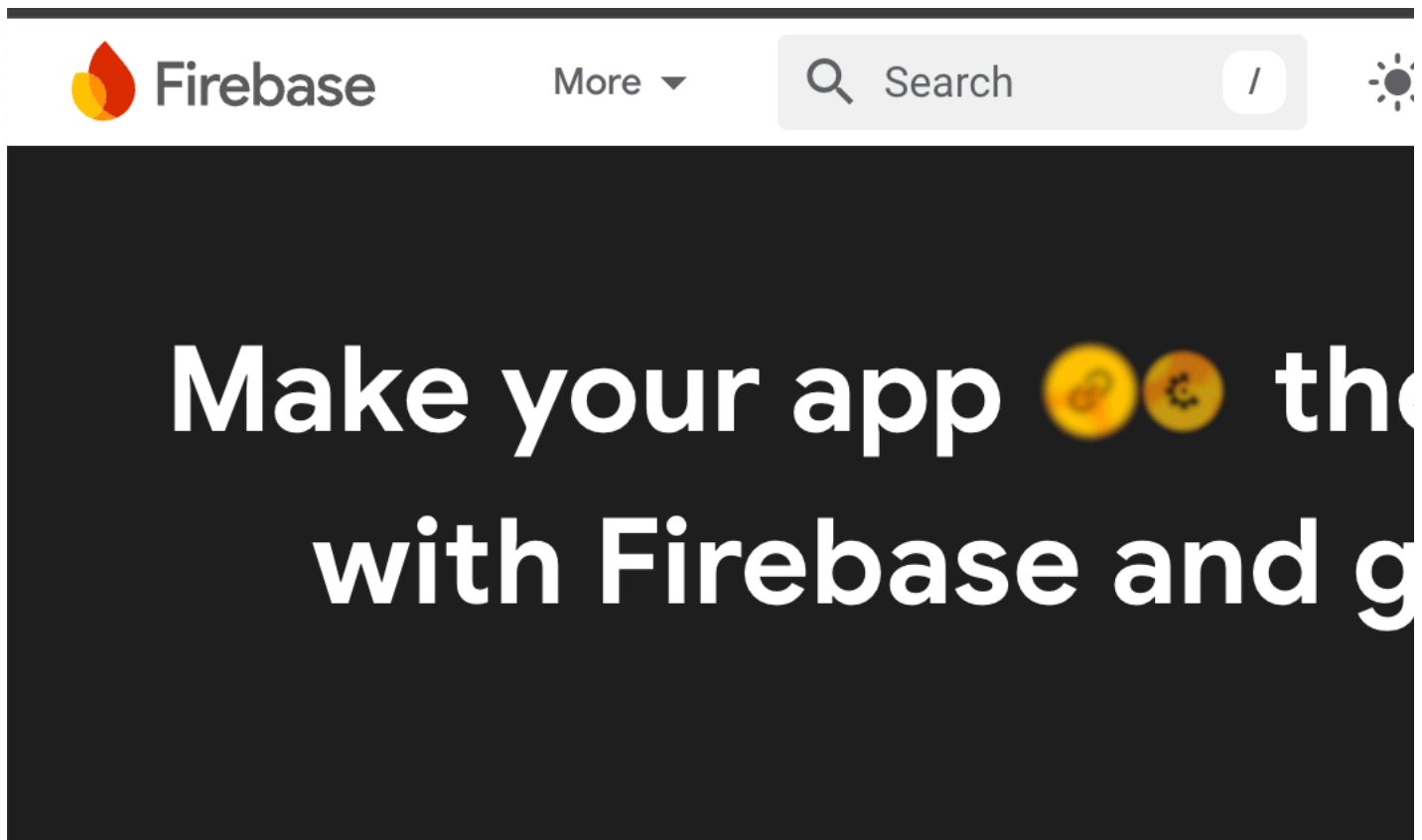After completing this lab, you will be able to:

- Log in to Firebase using a Google account
- Create a new Firebase project
- Navigate the Firebase console
- Explore and utilize Firebase Authentication, database, storage, and machine learning

Exercise 1: Setting up Firebase

In this exercise, you will log into Firebase and create a new project.
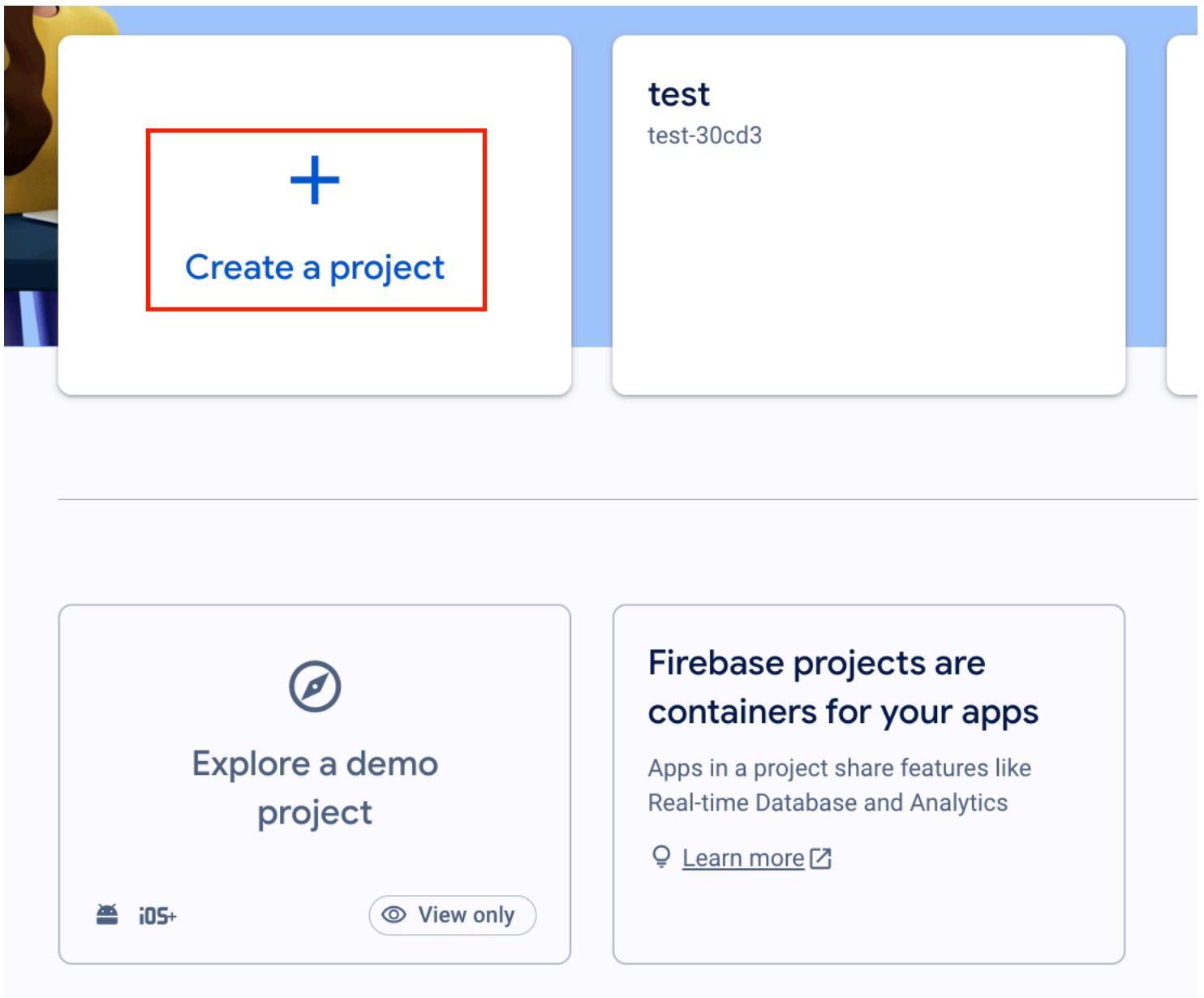
Step 1: Log in to Firebase

1. Open your web browser and navigate to [Firebase](#).

2. Click the **Go to console** button at the top right corner of the page.

3. Sign in using your Google account. If you do not have a Google account, you will need to create one.

Step 2: Create a Firebase project

Once you are logged in, you are taken to the `projects` page. You need to create a project to use the different services provided by Firebase. You can either create a new project or use one of the existing projects.

test

test-30cd3

➕

Create a project

🧭

Explore a demo project

🤖 iOS+   👁 View only

Firebase projects are containers for your apps

Apps in a project share features like Real-time Database and Analytics

💡 Learn more 🔗

If you don't have any projects, you are given an option to create one or try a sample app.

Firebase

Welcome to Firebase!

Tools from Google for building app infrastructure, improving app quality, and growing your business

☰ View docs ⬈

Get started with a
Firebase project

⊘ Explore our view only

Firebase

Let's create a new project.

1. Once logged in, click **Add project**.

2. Enter a project name and follow the on-screen instructions to set up your project.

3. Leave the default Google Analytics options and select `Continue`.

Google Analytics for your Firebase project

Google Analytics is a free and unlimited analytics solution that enables targeting, reporting, and more in Firebase Crashlytics, Cloud Messaging, In-App Messaging, Remote Config, A/B Testing, and Cloud Functions.

Google Analytics enables:

A/B testing ⑦

User segmentation & targeting across ⑦
Firebase products

Breadcrumb logs in Crashlytics ⑦

Event-based Cloud Functions triggers ⑦

Free unlimited reporting ⑦

✓ Enable Google Analytics for this project
Recommended

Previous   **Continue**

4. Create a Google Analytics account for your project or pick a pre-existing one. Click `Create project`.

Configure Google Analytics

Choose or create a Google Analytics account (?)

.ıl Default Account for Firebase

Create a new account

~~Automatically create a new property in this account~~

Upon project creation, a new Google Analytics property will be created in your chosen Google Analytics account and li
Firebase project. This link will enable data flow between the products. Data exported from your Google Analytics prop
Firebase is subject to the Firebase terms of service, while Firebase data imported into Google Analytics is subject to t
Analytics terms of service. Learn more 🗗.

Previous

Create proje

5. Once the project is created, select `Continue` to go to your project.

Exercise 2: Navigate and explore Firebase

This exercise will familiarize you with the Firebase console and explore its features.

Step 1: Navigate the Firebase console

1. Familiarize yourself with the Firebase console. The left navigation bar provides access to all Firebase features. Expand the `Build` section to see all the services.

Step 2: Explore core features

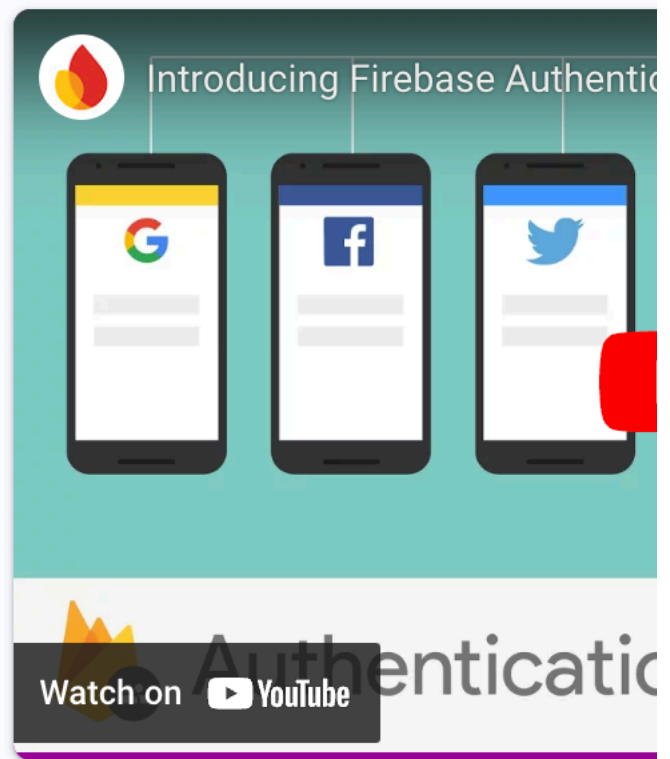1. Click **Authentication** in the Firebase console, watch the introduction video, and read the documentation on the page.

My First Firebase Project ▼

Authentication

Authenticate and manage users from a variety of providers without server-side code

Get started   📝 **Ask Gemini**

Learn more

⚙️ **How do I get started?**
     View the docs

ⓘ **How does Authentication work?**
     View the docs

🙂 **What can Authentication do for me?**
     Learn more

Introducing Firebase Authenti...

Watch on ▶ YouTube

2. Carry on to the **Firestore** under the `Build` section and explore the various resources.

Firebase

🏠 Project Overview ⚙️

Generative AI

✦ Build with Gemini NEW

Project shortcuts

👥 Authentication

⚊ Firestore Database

Product categories

Build ⌄

Run ⌄

Analytics ⌄

⸬ All products

Related development tools

IDX ↗ ⓘ
Checks ↗ ⓘ

My First Firebase Project ⌄

Cloud Firestore

Realtime updates, powerful queries, and automatic scaling

Create database   📧 Ask Gemini

Learn more

⚙️ **How do I get started?**
View the docs

💳 **How much will Cloud Firestore cost?**
View pricing

🙂 **What can Cloud Firestore do for me?**
Learn more

3. Do the same with `Storage` and `Machine Learning`.

Conclusion

Congratulations on completing this lab! You have now learned how to set up a Firebase project and explored key features such as authentication, database, storage, and machine learning.

Next steps

- Integrate Firebase services into your mobile or web applications
- Explore more about Firebase rules and security settings
- Start building your own custom Machine Learning models with Firebase ML

Author(s)

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