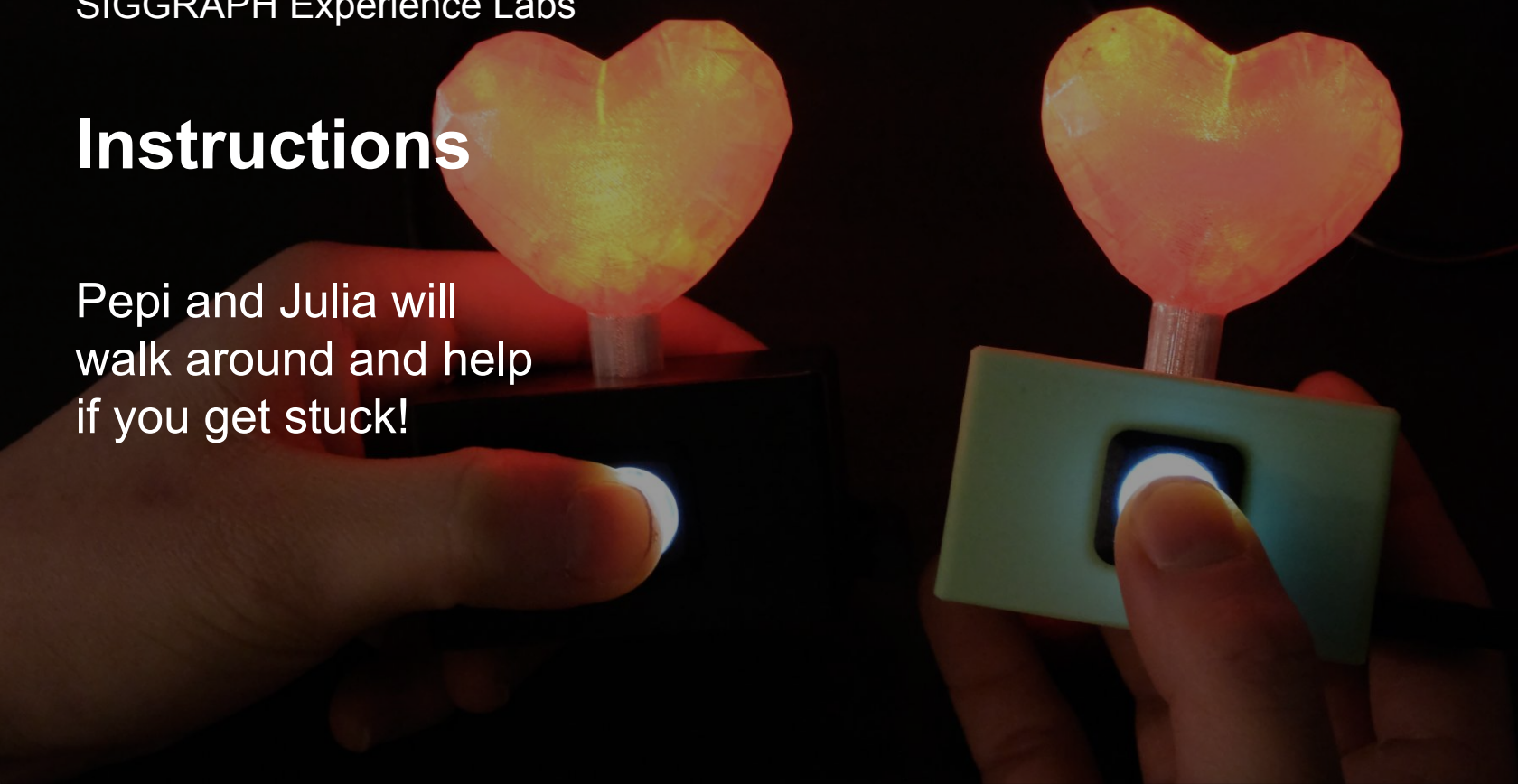


Creating the Real Time Database

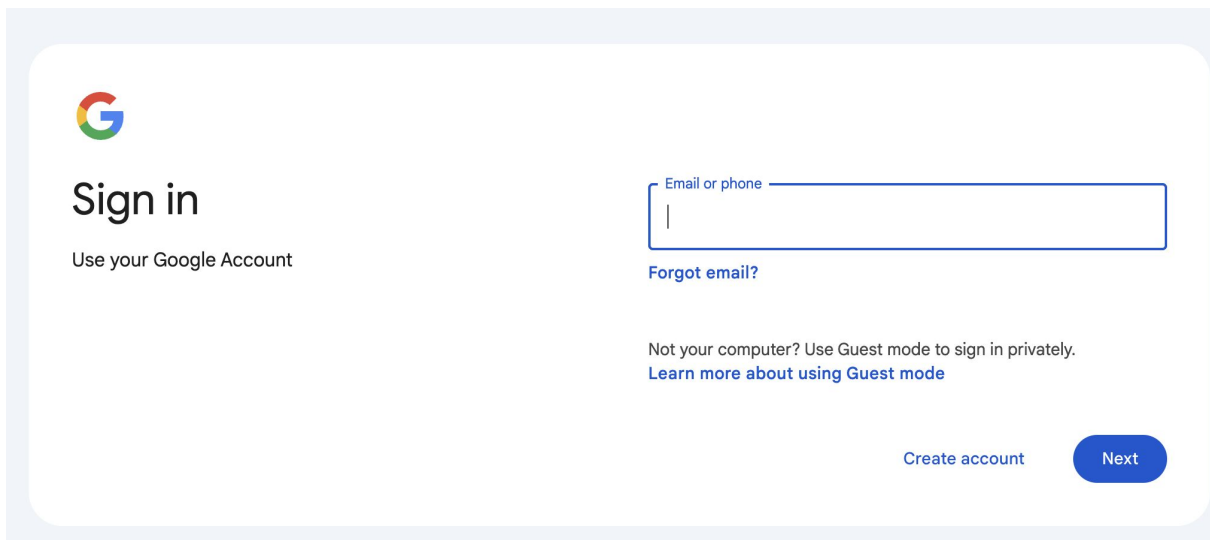
SIGGRAPH Experience Labs

Instructions

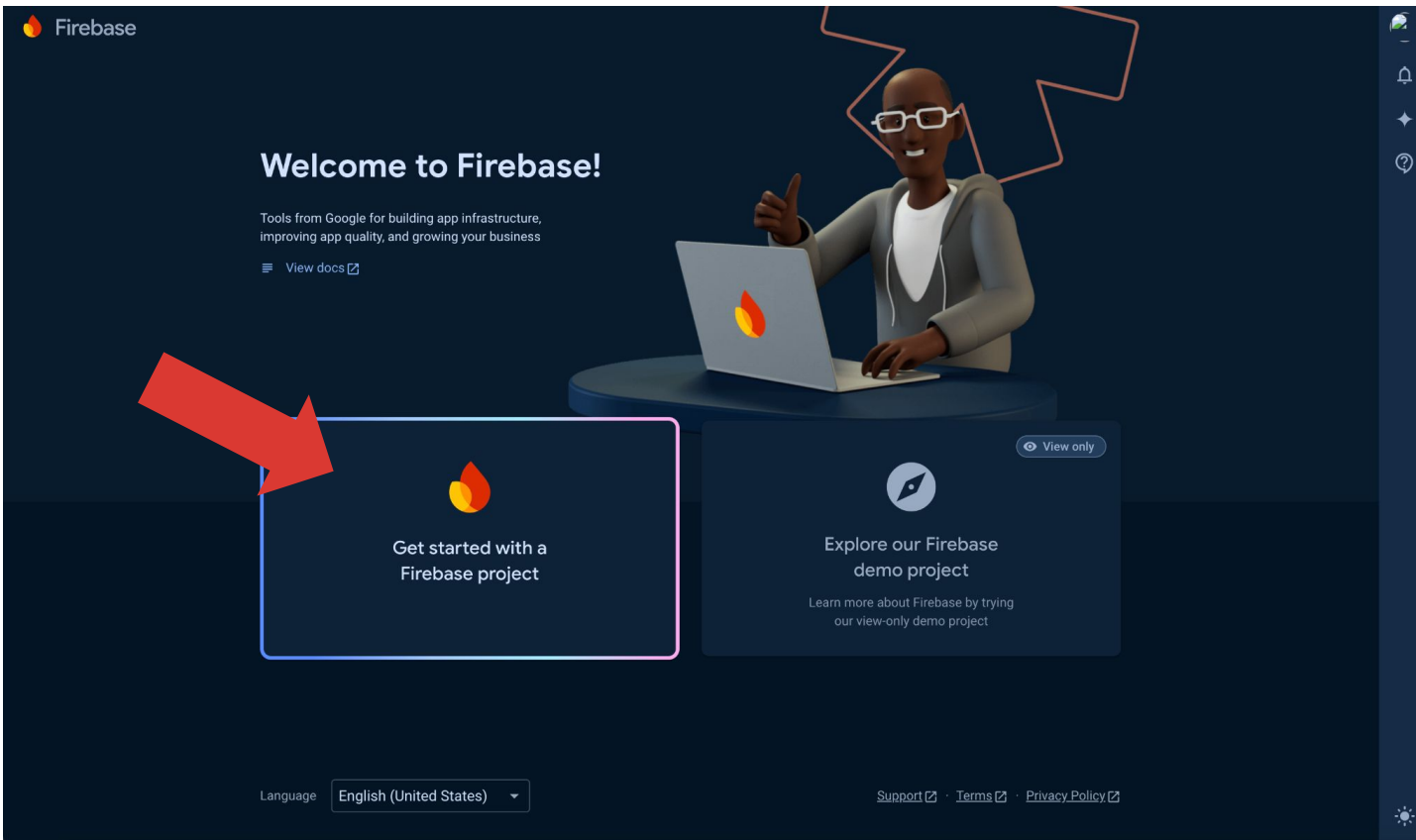
Pepi and Julia will
walk around and help
if you get stuck!



Step 1: Open **console.firebase.google.com** in Google Chrome, and log into your personal Google account.

A screenshot of the Google sign-in page. On the left, there is a large, multi-colored 'G' logo. Below it, the text 'Sign in' is displayed in a large, bold, black font. Underneath 'Sign in', the text 'Use your Google Account' is shown in a smaller, regular black font. On the right side of the page, there is a rectangular input field with a blue border. Above the input field, the text 'Email or phone' is written in a small, regular black font. Inside the input field, a single vertical line indicates the cursor position. Below the input field, the text 'Forgot email?' is displayed in a blue, regular font. Further down, the text 'Not your computer? Use Guest mode to sign in privately.' is shown in a small, regular black font. Below this text, the link 'Learn more about using Guest mode' is displayed in a blue, regular font. At the bottom right of the page, there are two elements: the text 'Create account' in a small, regular black font, and a blue rounded rectangular button with the text 'Next' in a white, regular font.

Step 2: In the Firebase website, select **"Get started with a Firebase project"**



Step 3: Give your project a **name**, and hit the **“Continue”** button.

× Create a project (Step 1 of 3)

Let's start with a name for
your project [?]

Project name


Julias Love Messengers

✎ julias-love-messengers

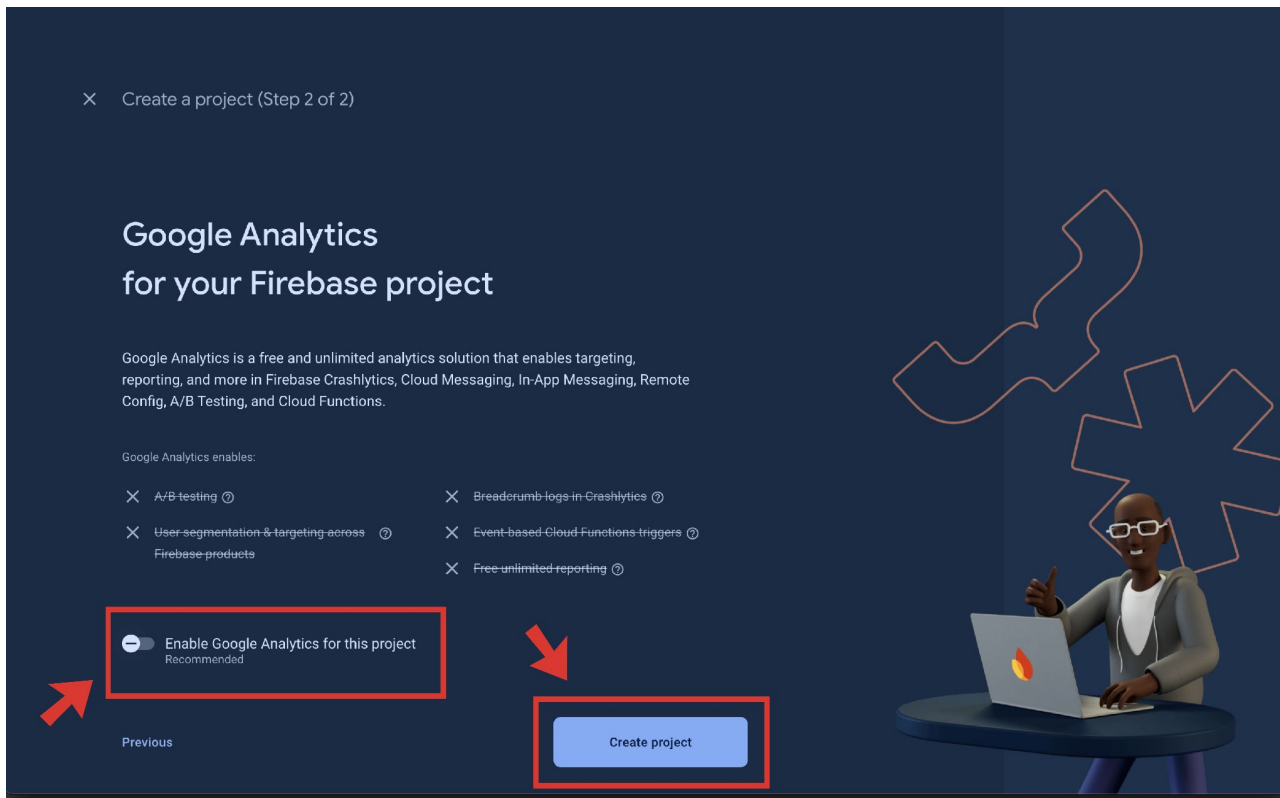
☒ I accept the [Firebase terms](#).

☒ I confirm that I will use Firebase exclusively for purposes relating to my trade, business, craft, or profession.

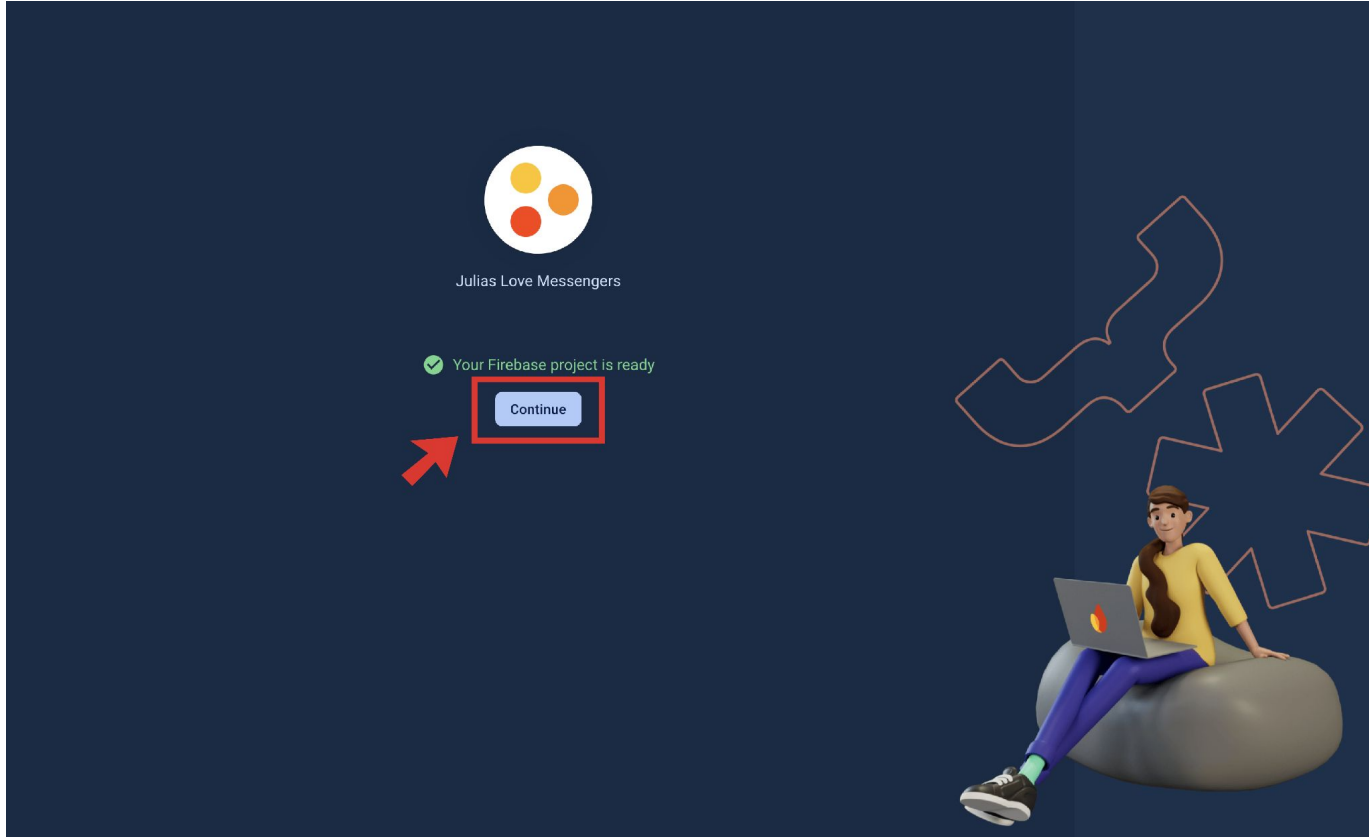
Continue

An illustration of two people, a woman in a yellow shirt and a man in a grey hoodie, sitting at a blue table. The man is using a laptop with the Firebase logo on it. In the background, there is a large, stylized orange gear.

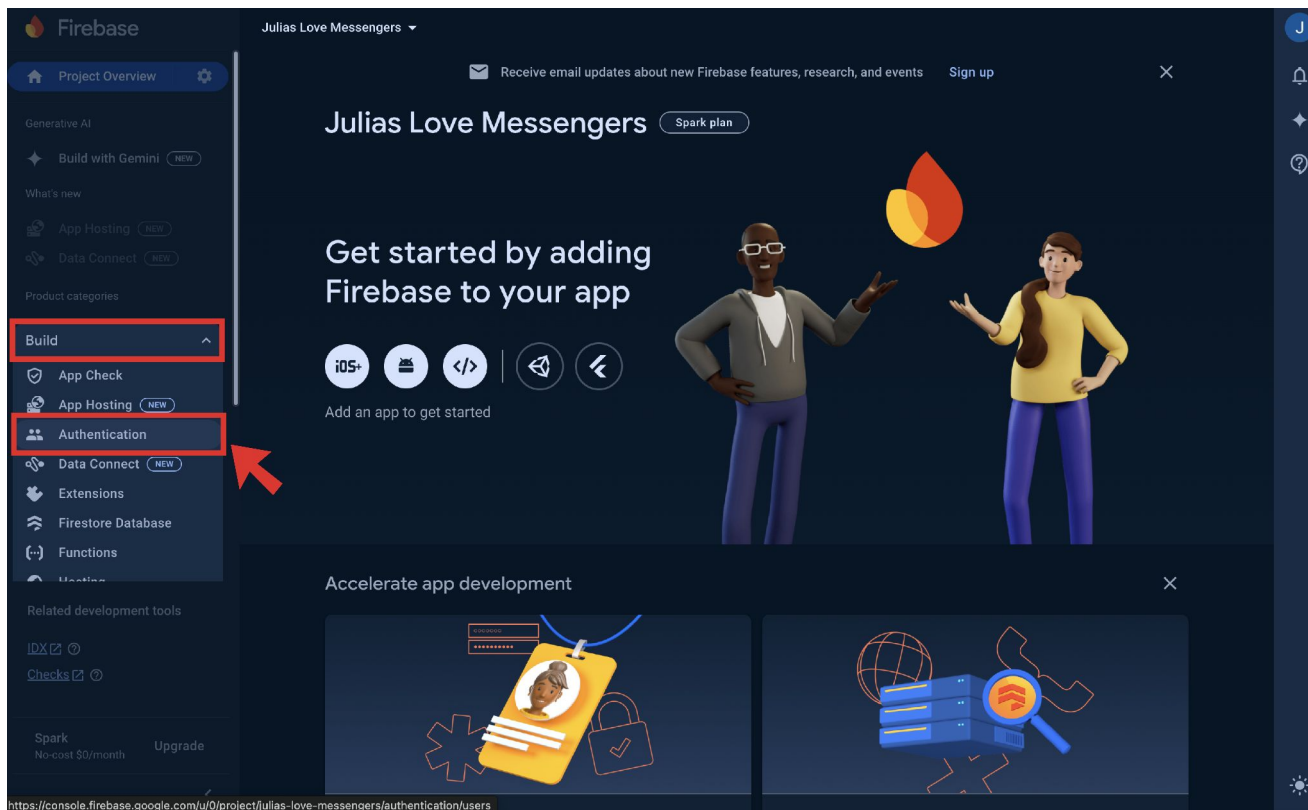
Step 4: Disable Google Analytics in the slider at the bottom of the page, then hit **“Create Project”**.



Step 5: Once the project has loaded, hit the **“Continue”** button.



Step 6: We are now in the project console page! On the left panel bar, enter the **“Build”** menu, and select **“Authentication”**.



Step 7: In the authentication page, select **“Get started”**.

The screenshot shows the Firebase console interface. The top navigation bar includes the Firebase logo, the text "Julius Love Messengers", and a user profile icon. The left sidebar contains a "Project Overview" section with a home icon and a settings gear icon. Below this is a "Generative AI" section with a "Build with Gemini" button. The "Project shortcuts" section lists "Authentication" (highlighted with a blue bar), "App Hosting", and "Data Connect". The "Product categories" section includes "Build", "Run", and "Analytics". The "All products" section is visible at the bottom of the sidebar. The main content area is titled "Authentication" and features a large illustration of a yellow ID card with a person's photo, a blue string, and a padlock. A red rectangle highlights the "Get started" button, with a red arrow pointing to it. Below the "Get started" button is a "Learn more" section with three links: "How do I get started?", "How does Authentication work?", and "What can Authentication do for me?". At the bottom right, there is a video player titled "Introducing Firebase Authentication" showing various mobile app login screens.

Julius Love Messengers

Project Overview

Generative AI

Build with Gemini

Project shortcuts

Authentication

What's new

App Hosting

Data Connect

Product categories

Build

Run

Analytics

All products

Related development tools

IDX

Checks

Spark

No-cost \$0/month

Upgrade

Authentication

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

Get started

Learn more

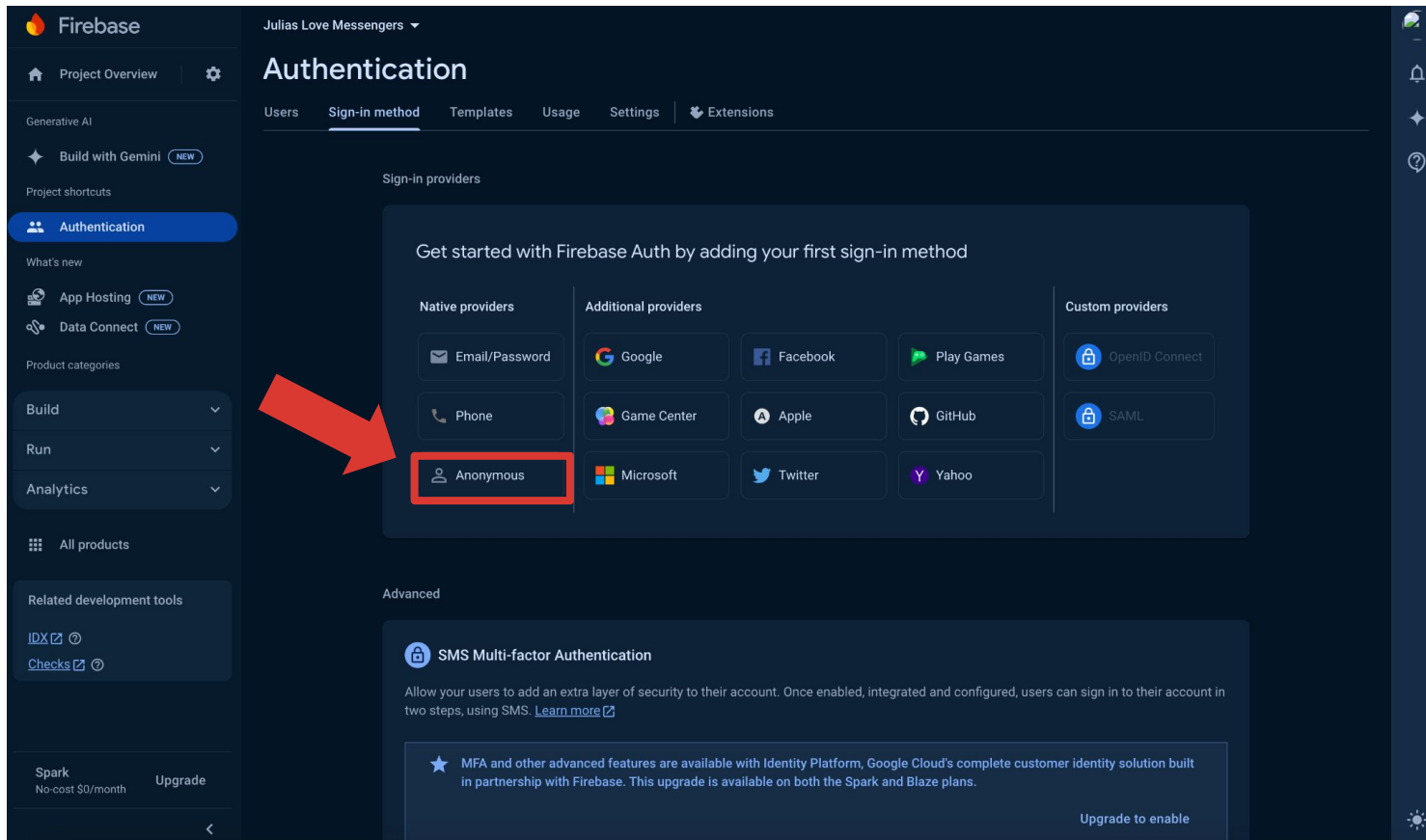
- How do I get started? View the docs
- How does Authentication work? View the docs
- What can Authentication do for me? Learn more

Introducing Firebase Authentication

Watch later Share

Authentication

Step 8: Select the “Anonymous” option.



The screenshot displays the Firebase Authentication console for the project 'Julius Love Messengers'. The left sidebar contains navigation links for Project Overview, Generative AI, Project shortcuts, Authentication (highlighted), What's new, App Hosting, Data Connect, Product categories, and Related development tools. The main content area is titled 'Authentication' and includes tabs for Users, Sign-in method (selected), Templates, Usage, Settings, and Extensions. Under the 'Sign-in providers' section, a large card prompts the user to 'Get started with Firebase Auth by adding your first sign-in method'. This card is divided into three columns: Native providers, Additional providers, and Custom providers. The 'Native providers' column lists Email/Password, Phone, and Anonymous. A red arrow points to the 'Anonymous' provider, which is also highlighted with a red box. The 'Additional providers' column lists Google, Facebook, Play Games, Game Center, Apple, GitHub, Microsoft, Twitter, and Yahoo. The 'Custom providers' column lists OpenID Connect and SAML. Below the sign-in providers section, the 'Advanced' section is visible, featuring 'SMS Multi-factor Authentication' and a note about upgrading to enable MFA and other advanced features.

Julius Love Messengers

Authentication

Users | Sign-in method | Templates | Usage | Settings | Extensions

Sign-in providers

Get started with Firebase Auth by adding your first sign-in method

| Native providers | Additional providers | Custom providers |
|------------------|----------------------|------------------|
| Email/Password | Google | Facebook |
| Phone | Play Games | Game Center |
| Anonymous | Apple | GitHub |
| | Microsoft | Twitter |
| | Yahoo | |

Advanced

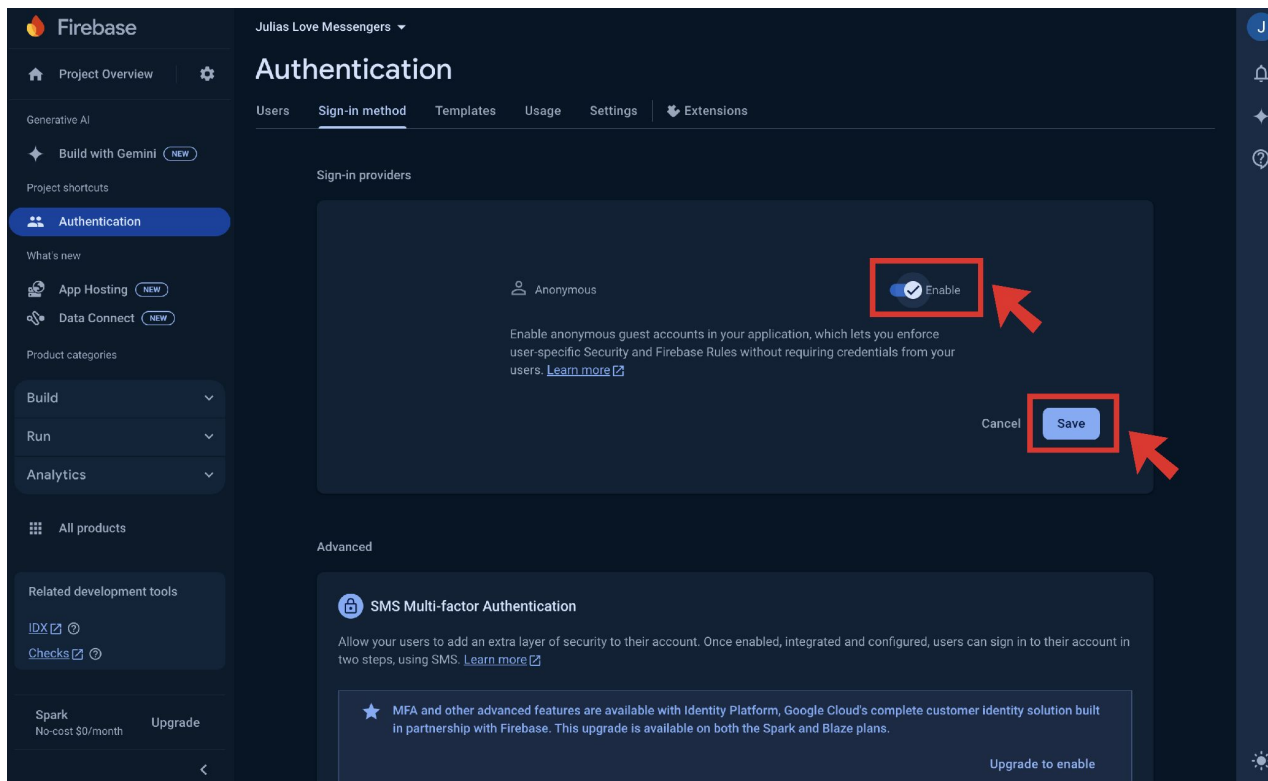
SMS Multi-factor Authentication

Allow your users to add an extra layer of security to their account. Once enabled, integrated and configured, users can sign in to their account in two steps, using SMS. [Learn more](#)

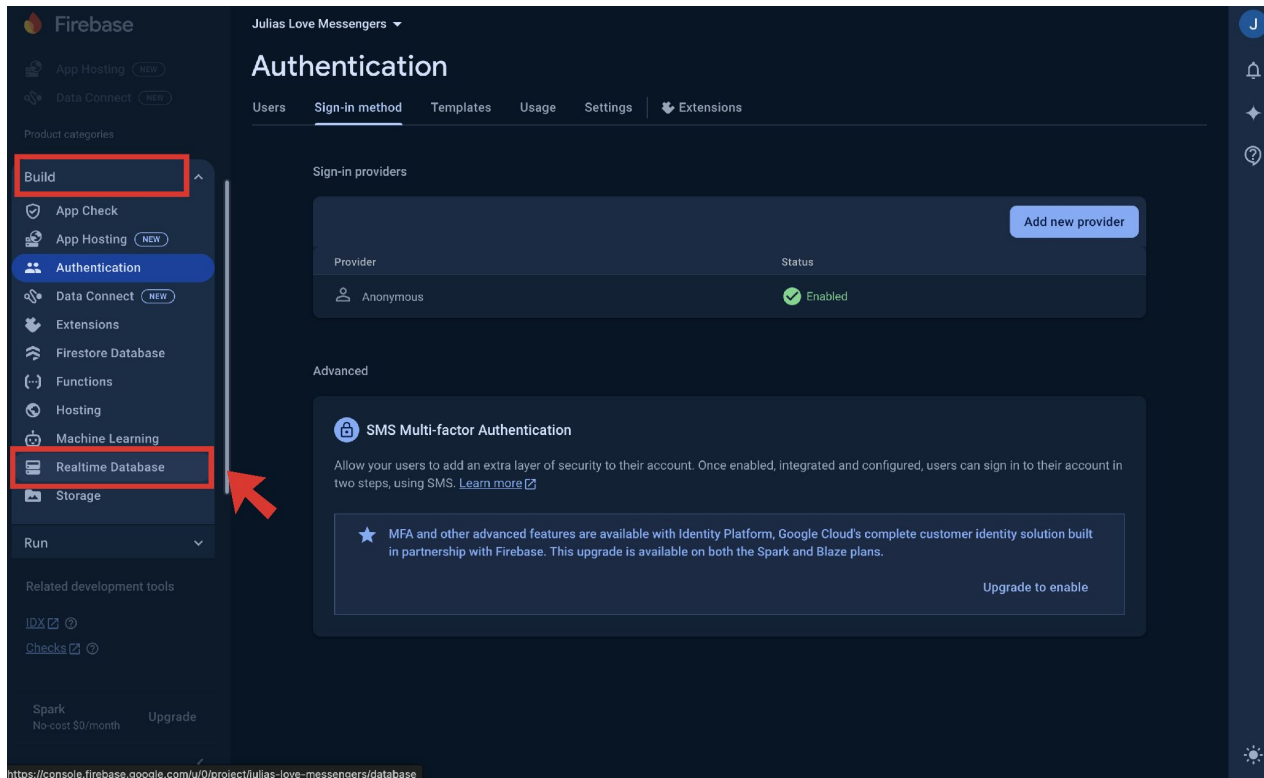
★ MFA and other advanced features are available with Identity Platform, Google Cloud's complete customer identity solution built in partnership with Firebase. This upgrade is available on both the Spark and Blaze plans.

Upgrade to enable

Step 9: Toggle the **“Enable”** slider, and hit the **“Save”** button.



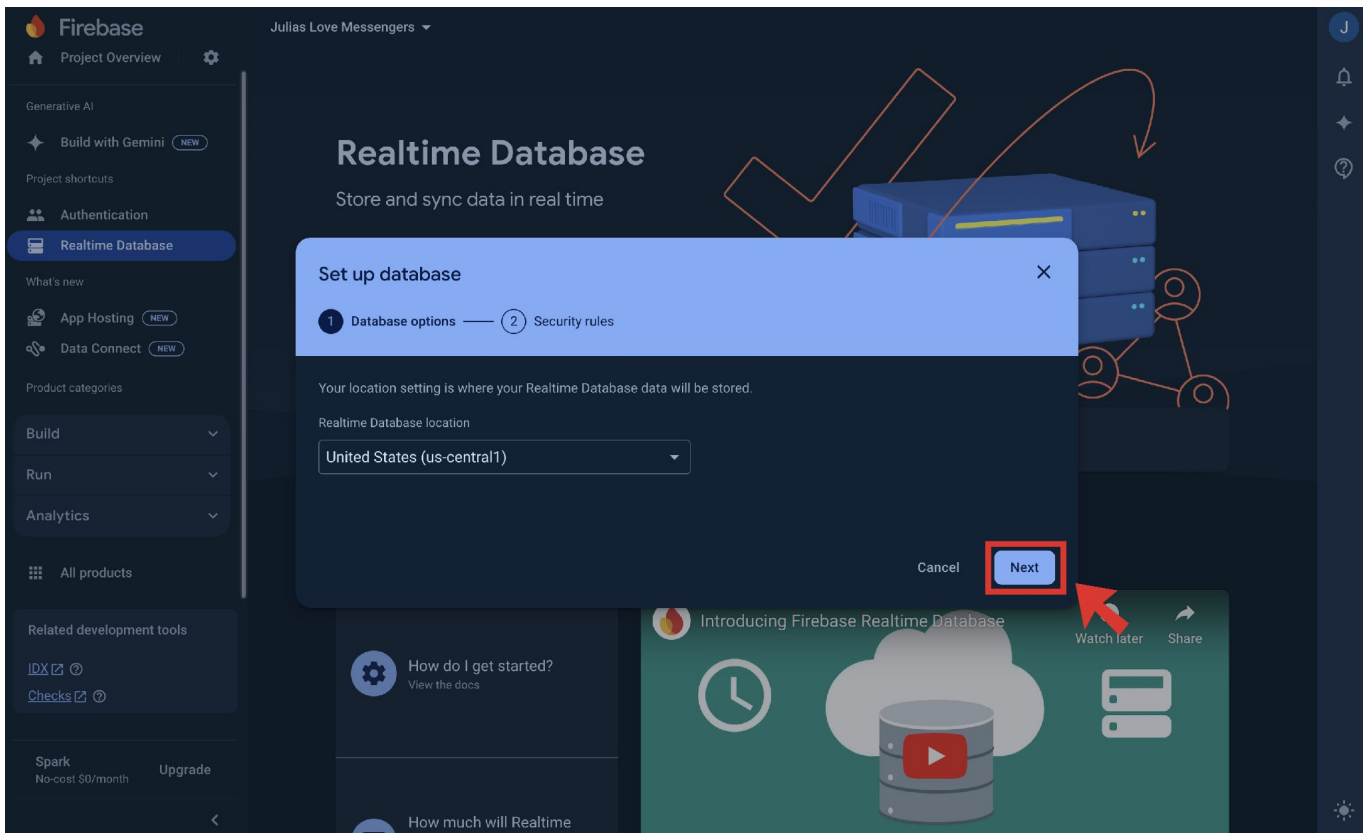
Step 10: Now we will build the database! Go to the left panel bar. In the **“Build”** menu, select **“Realtime Database”**



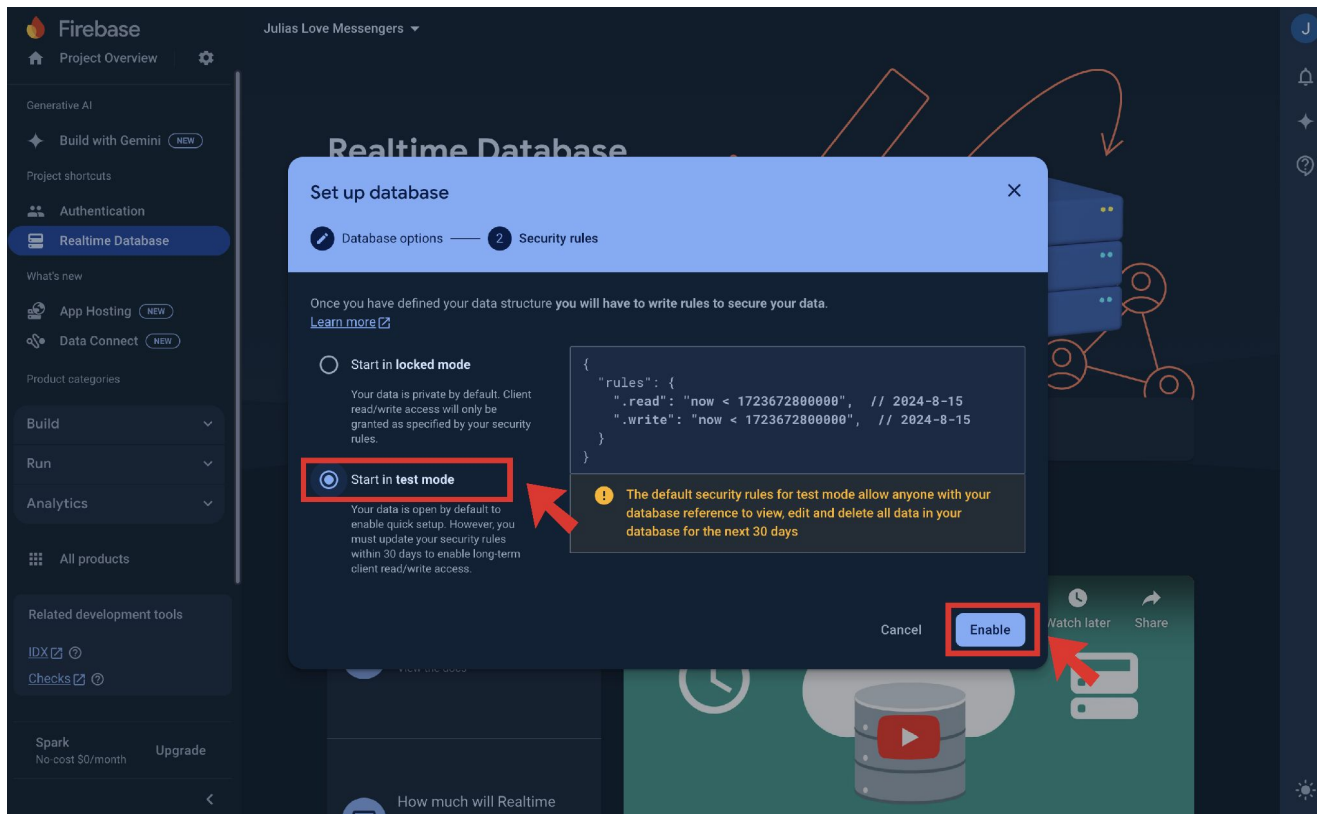
Step 11: Select “Create Database”

The screenshot shows the Firebase console interface for a project named 'Julias Love Messengers'. The left sidebar contains navigation links for 'Project Overview', 'Generative AI', 'Build with Gemini', 'Project shortcuts', 'Authentication', 'Realtime Database' (highlighted), 'App Hosting', 'Data Connect', 'Product categories', 'All products', and 'Related development tools'. The main content area is titled 'Realtime Database' with the subtitle 'Store and sync data in real time'. A red box highlights the 'Create Database' button, with a red arrow pointing to it. To the right of the button is an illustration of server racks with a checkmark and arrows indicating data flow. Below the button is a link 'Is Realtime Database right for you? Compare Databases'. At the bottom, there are sections for 'Learn more' with a 'How do I get started?' link, and a video player titled 'Introducing Firebase Realtime Database' with 'Watch later' and 'Share' buttons. The URL at the bottom is 'https://console.firebase.google.com/u/0/project/julias-love-messengers/apphost...'. The URL is partially obscured by a watermark.

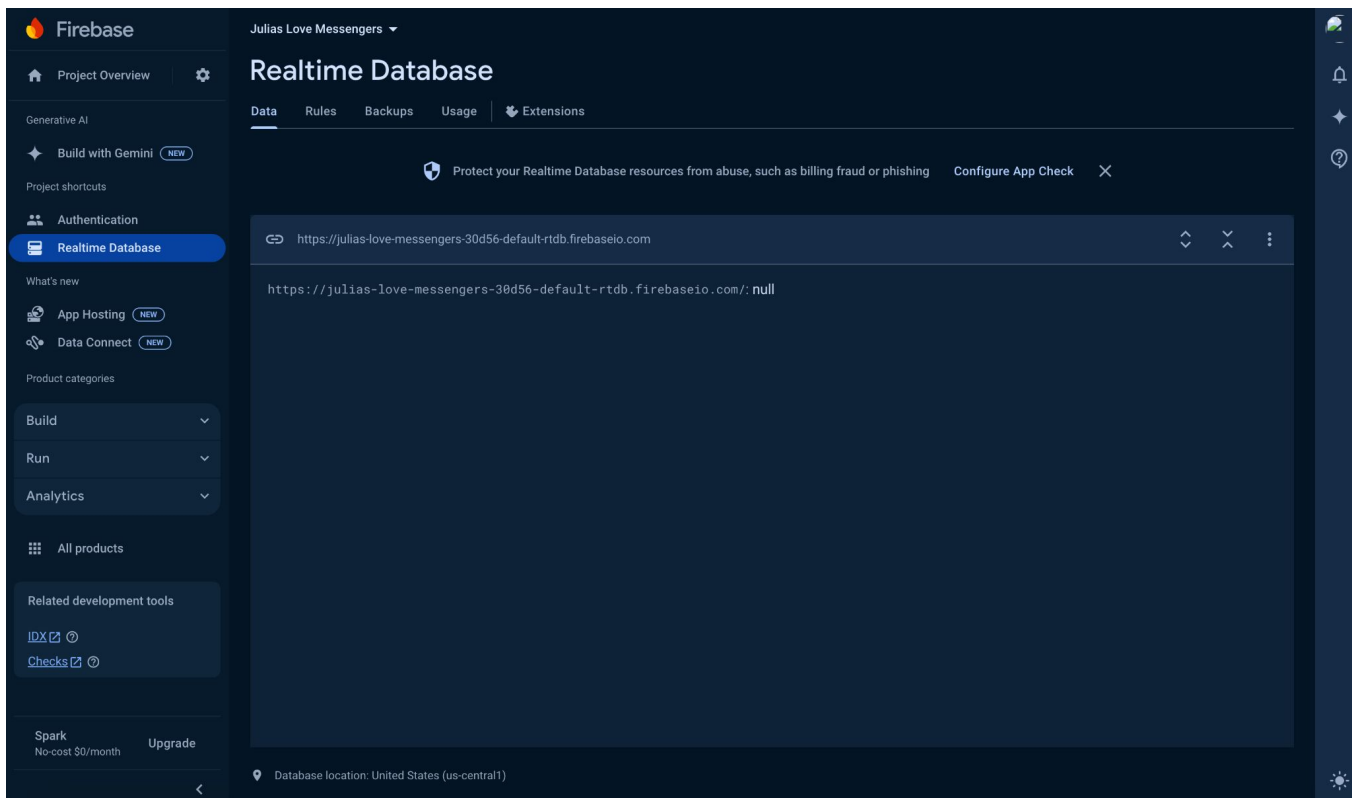
Step 12: Keep the Realtime Database location as “United States”, and hit **“Next”**



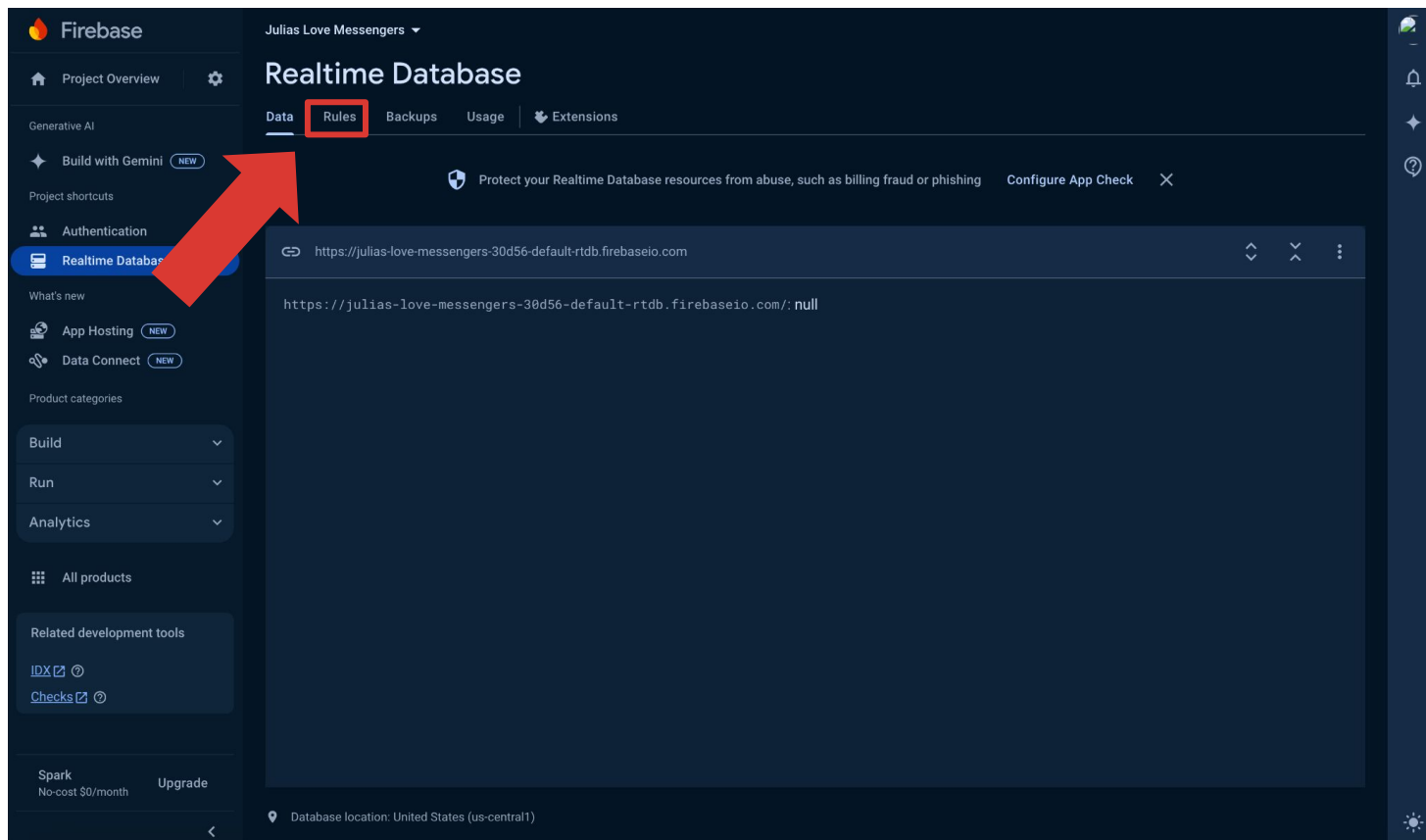
Step 13: Select **“Start in test mode”**, and hit **“Enable”**



Step 14: YEYY! This is our Real Time Database ❤️. It currently has no data stored, but as soon as we connect the Love Messengers, it will populate with information.



Step 15: Select the “Rules” navigation point.



Step 16: Set the values after “read” and “write” to **“true”** (lower-case, no spaces). Then hit the **“Publish”** button.

The image consists of three screenshots from the Supabase Realtime Database interface, illustrating the steps to publish a rule.

Left Screenshot: Shows the 'Realtime Database' interface with the 'Rules' tab selected. The code editor displays a rule configuration:

```
1 {  
2   "rules": {  
3     ".read": "now < 1724911200000", // 2024-8-29  
4     ".write": "now < 1724911200000", // 2024-8-29  
5   }  
6 }
```

Middle Screenshot: Shows the same interface, but the 'unpublished changes' bar at the top is visible. A red box highlights the code editor content, which has been updated to:

```
1 {  
2   "rules": {  
3     ".read": "true", // 2024-8-29  
4     ".write": "true", // 2024-8-29  
5   }  
6 }
```

Right Screenshot: Shows the 'Realtime Database' interface with the 'Rules' tab selected. A red arrow points to the 'Publish' button in the 'unpublished changes' bar, which is highlighted by a red box. The code editor content is the same as in the middle screenshot.

All done! Keep the Firebase window open for now, because we will need it later in the code. **We will regroup when everyone is done.**

