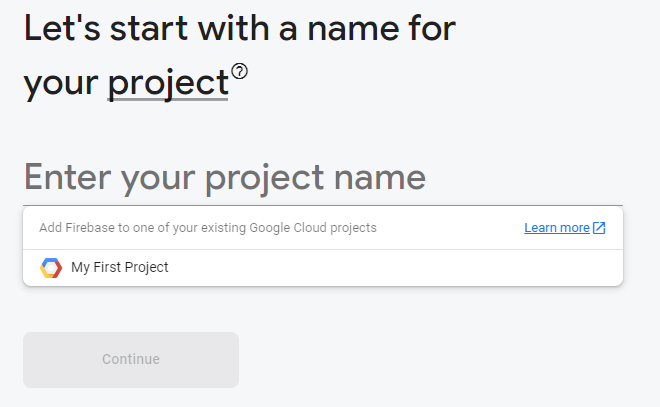
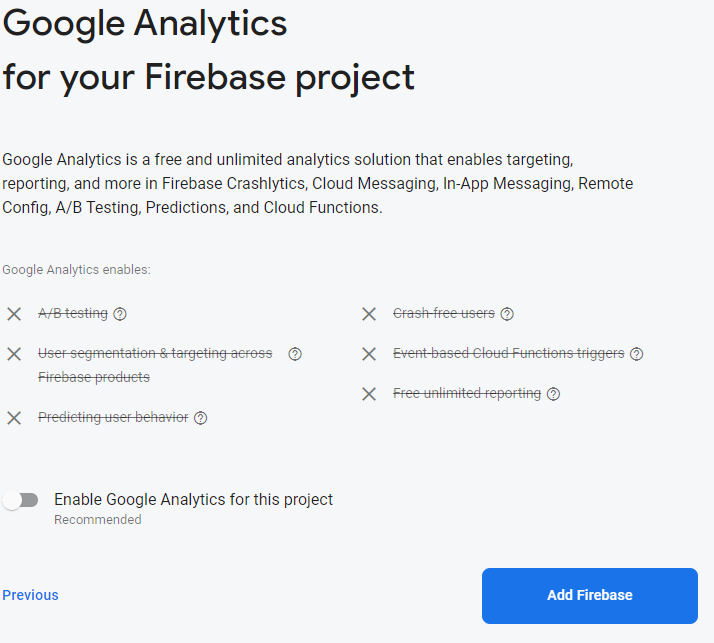
Based on article from <https://randomnerdtutorials.com/esp32-firebase-realtime-database/>. (Thanks Sara & Rui)

First of all, we need to setup a project on the Google Firebase.

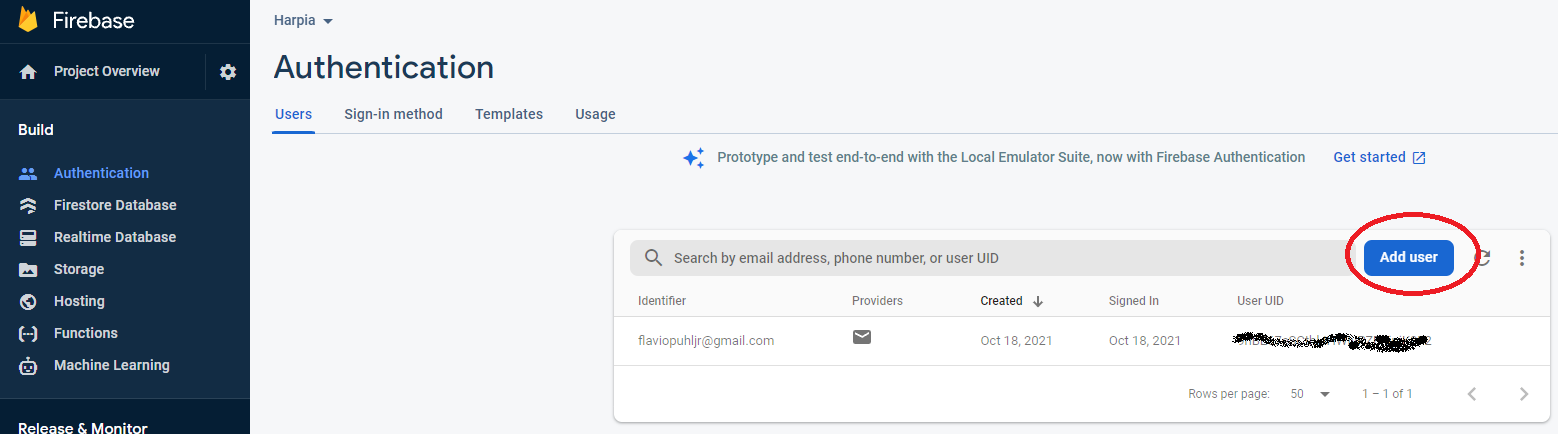
**[1] Name the new Project and hit on Continue**

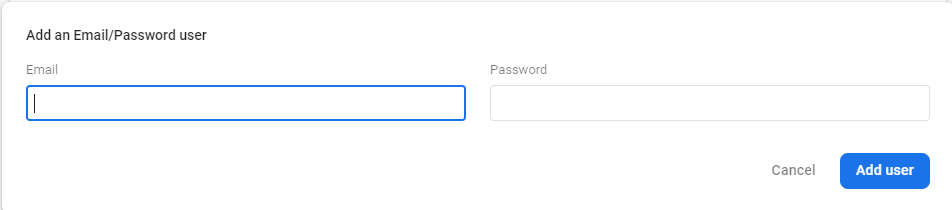


**[2] Disable Google Analytics**

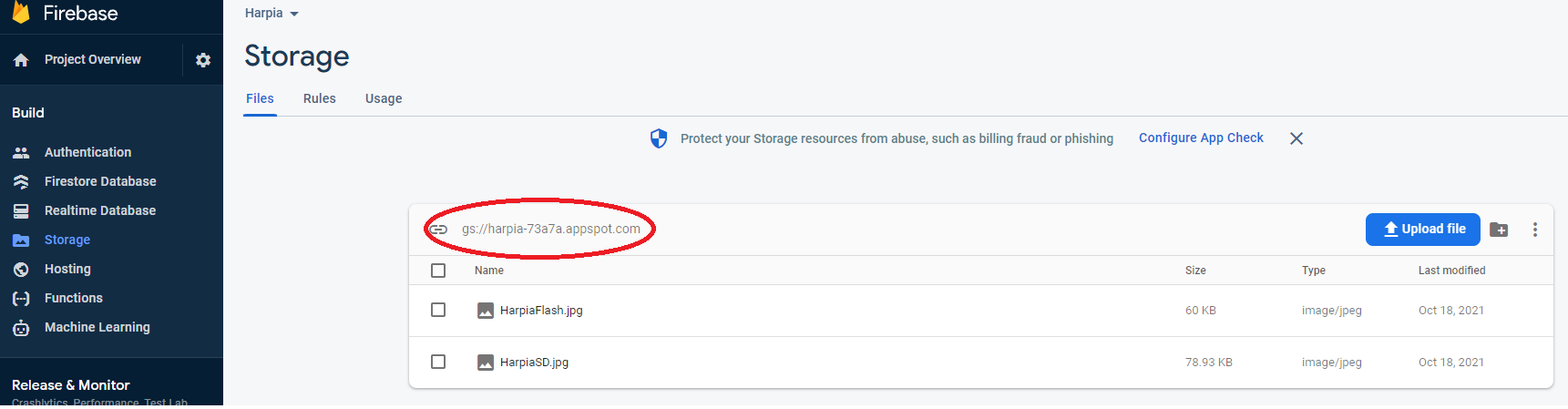


[3] Go to Menu/Authentication and add a user

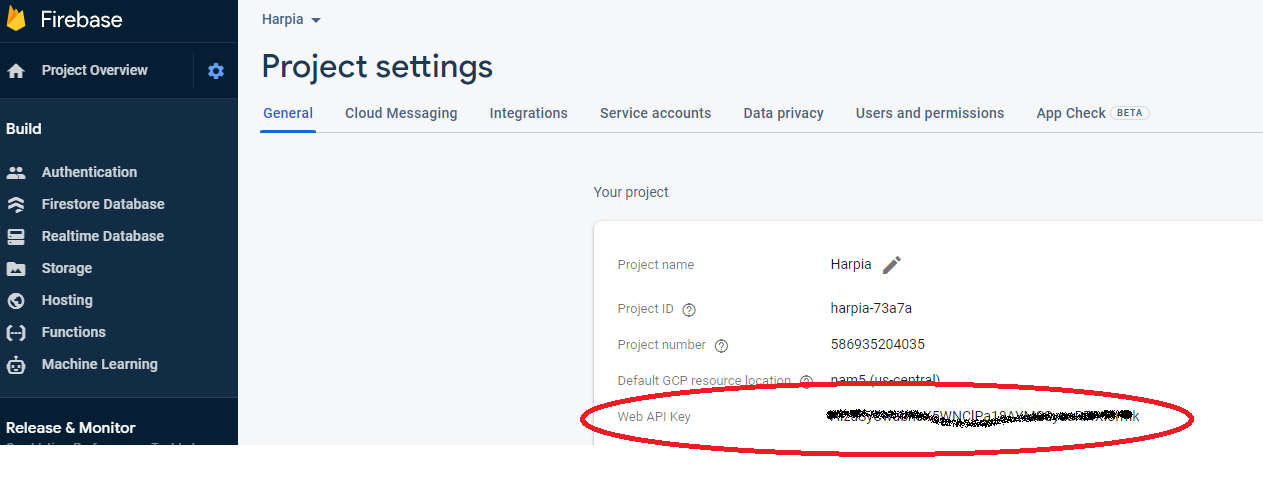




[4] Go to Menu/Storage and create a storage with default options (just click on next and done). Copy the BucketId to use later.



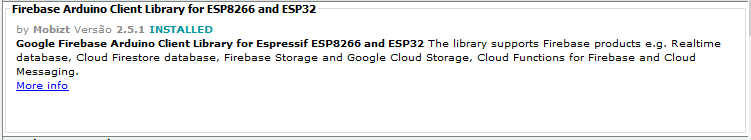
[5] Go to Project Setting and copy the AppKey to use later



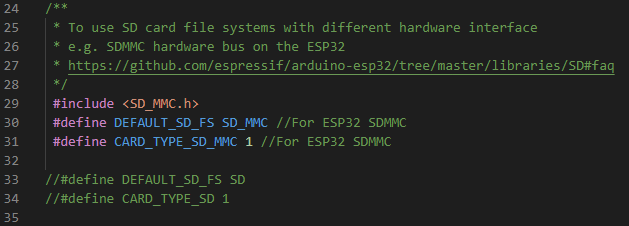
Upload sketch to ESP32 CAM

[1] If you’re using Arduino IDE, follow the next steps to install the library.

1. Go to Sketch > Include Library > Manage Libraries
2. Search for Firebase ESP Client and install the Firebase Arduino Client Library for ESP8266 and ESP32 by Mobitz.



[2] IMPORTANT: To be able to use the native SD card from ES32 CAM the following code must be changed on the library file “FirebaseFS.h”



[3] Download the attached example “FirebaseUploadFilefromSD\_Test\_Dummy.ino”

[4] Update the following code portion with the content saved on previous steps

//Provide the token generation process info.

#include "addons/TokenHelper.h"

/\* 1. Define the WiFi credentials \*/

#define WIFI\_SSID "WIFI\_SSID"

#define WIFI\_PASSWORD "WIFI\_PASSWORD"

/\* 2. Define the API Key \*/

#define API\_KEY "API\_KEY"

/\* 3. Define the user Email and password that alreadey registerd or added in your project \*/

#define USER\_EMAIL "USER\_EMAIL"

#define USER\_PASSWORD "USER\_PASSWORD"

/\* 4. Define the Firebase storage bucket ID e.g bucket-name.appspot.com \*/

#define STORAGE\_BUCKET\_ID "STORAGE\_BUCKET\_ID.appspot.com"

[5] Update the code below to reflect the file name stored on the SD Card

if (Firebase.Storage.upload(&fbdo,

STORAGE\_BUCKET\_ID /\* Firebase Storage bucket id \*/,

"/HarpiaSD.jpg" /\* path to local file \*/,

mem\_storage\_type\_sd /\* memory storage type, mem\_storage\_type\_flash and mem\_storage\_type\_sd \*/,

"HarpiaSD.jpg" /\* path of remote file stored in the bucket \*/,

"image/jpeg" /\* mime type \*/))

[6] Run it and you shall be able to see you file added to Firebase Storage

