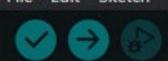


# **INSTALLING LIBRARY AND BOARD MANAGER IN ARDUINO SOFTWARE**



Arduino Uno



```
dispenser.ino
1 #include <Arduino.h>
2 #include <ESP8266WiFi.h>
3 #include <Firebase_ESP_Client.h>
4
5 void connectWIFI(void);
6
7 // Provide the token generation pr
8 #include "addons/TokenHelper.h"
9 // Provide the RTDB payload printi
10 #include "addons/RTDBHelper.h"
11
12 // Insert your network credential
13 #define WIFI_SSID "Nishant"
14 #define WIFI_PASSWORD "lconnect"
15
16 #define po D5
17 #define ne D6
18
19
20 // const char* WIFI_SSID="realme
21 // const char* password = "abcd12
22
23
24 // Insert Firebase project API Ke
25 #define API_KEY "AIzaSyBF-40EwUg3
26
27 // Insert RTDB URL of your RTDB
28 #define DATABASE_URL "esp32-6348b
29
30 // Define Firebase Data object
31 FirebaseData fbdo;
32
33 FirebaseAuth auth;
34 FirebaseConfig config;
35
36 // some important variables
```

## Preferences

Settings Network

Sketchbook location:

c:\Users\risha\OneDrive\Documents\Arduino

BROWSE

 Show files inside Sketches

14

Editor font size:

 Automatic 100 %

Theme:

Dark

Language:

English (Reload required)

Show verbose output during

 compile  upload

Compiler warnings:

None

 Verify code after upload Auto save Editor Quick Suggestions

Additional boards manager URLs:



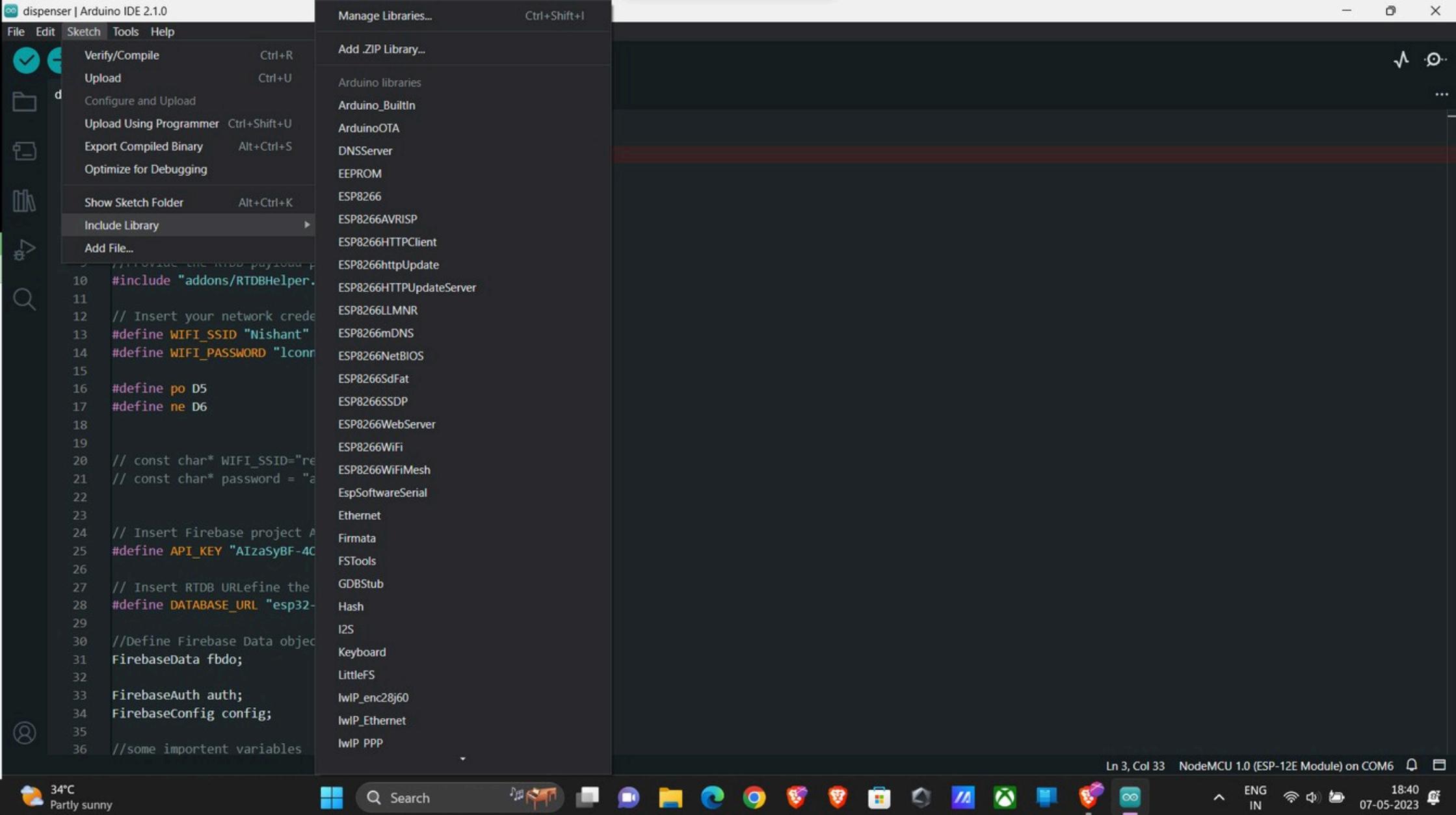
CANCEL

OK

BLUR

[https://arduino.esp8266.com/stable/package\\_esp8266com\\_index.json](https://arduino.esp8266.com/stable/package_esp8266com_index.json)

preference ->additional board manager->paste link and click ok



sketch->include library->add zip library->and select **Firebase-ESP-Client.zip** library given in the file

**CREATING GOOGLE SHEET , FORM AND GETTING LINK  
FOR FETCHING AND WRITING DATA FROM APP**

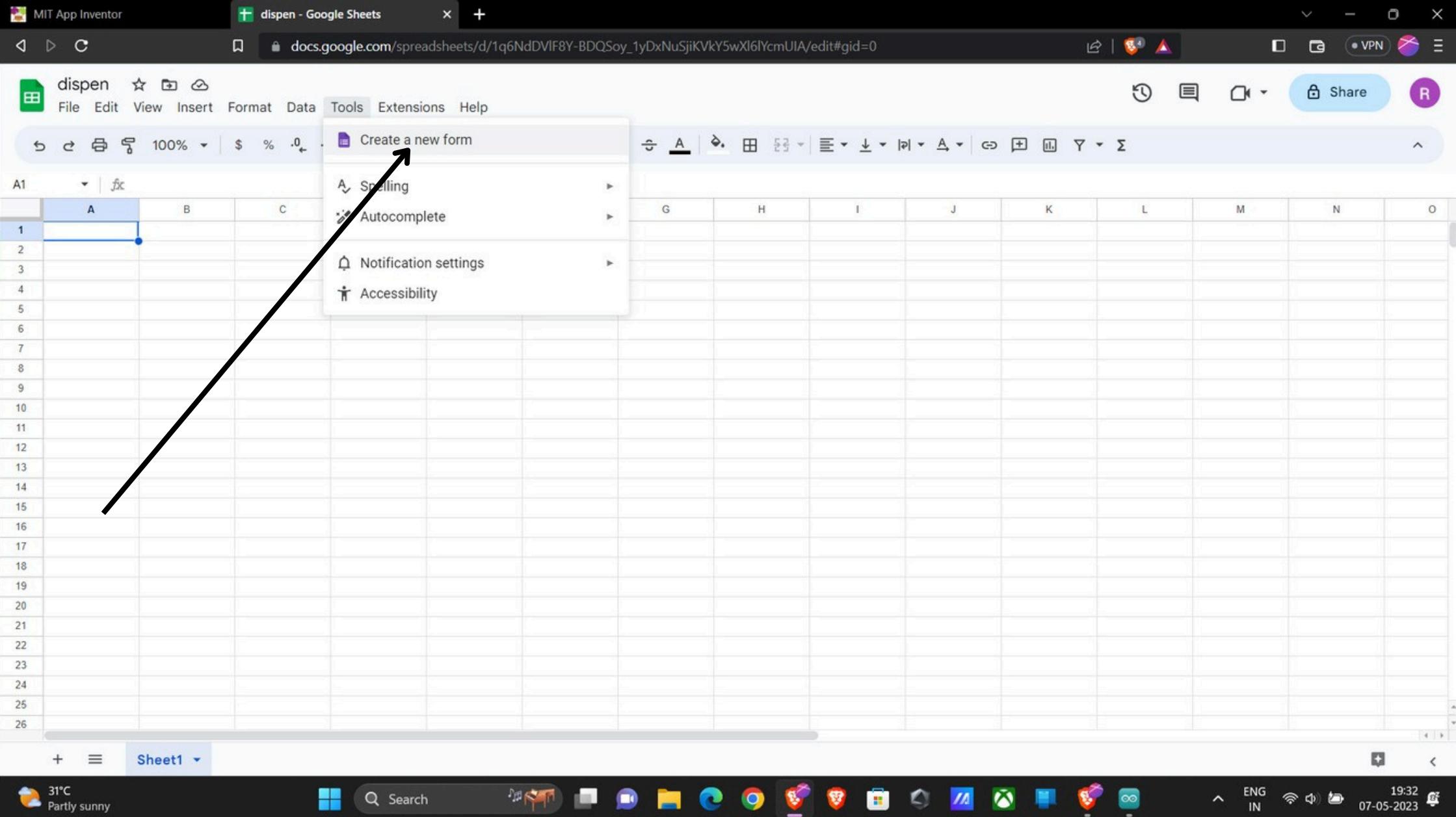
MIT App Inventor dispen - Google Sheets docs.google.com/spreadsheets/d/1q6NdDVf8Y-BDQSo\_1yDxNuSjiKVkY5wXl6lYcmUIA/edit#gid=0

File Edit View Insert Format Data Tools Extensions Help

A1 A B C G H I J K L M N O

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

Sheet1 31°C Partly sunny Search ENG IN 19:32 07-05-2023



open google sheet->create a new form

MIT App Inventor dispen - Google Sheets dispen - Google Forms x + docs.google.com/forms/d/1fYuv1A66jyQCj-FyWzJ7bwbs9Fur2OxV6pQQEOjKHj4/edit

Send R

Questions Responses Settings

dispen

Form description

Untitled Question

Option 1

Add option or add "Other"

Short answer

Paragraph

Multiple choice

Checkboxes

Dropdown

File upload

Linear scale

Multiple choice grid

Checkbox grid

Date

Time

31°C Partly sunny

Search

19:33 07-05-2023

choose short answer from menu and click '+' icon for one more field

MIT App Inventor dispen - Google Sheets dispen - Google Forms docs.google.com/forms/d/1fYuv1A66jyQCj-FyWzJ7bwbs9Fur2OxV6pQQEOjKHj4/edit

VPN R

dispen All changes saved in Drive Questions Responses Settings

dispen

Form description

method

Short answer text

quantity

Short answer text

Required

?

31°C Partly sunny

Search

19:33 ENG IN 07-05-2023

change question to **method** and **quantity** respectively

MIT App Inventor dispen - Google Sheets dispen - Google Forms x https://docs.google.com/forms/d/1fYuv1A66jyQCj-FyWzJ7bwbs9Fur2OxV6pQQEOjKHj4/edit View site information Questions Responses Settings

dispen All changes saved in Drive

dispen

Form description

method

Short answer text

quantity

Short answer text

Required

+

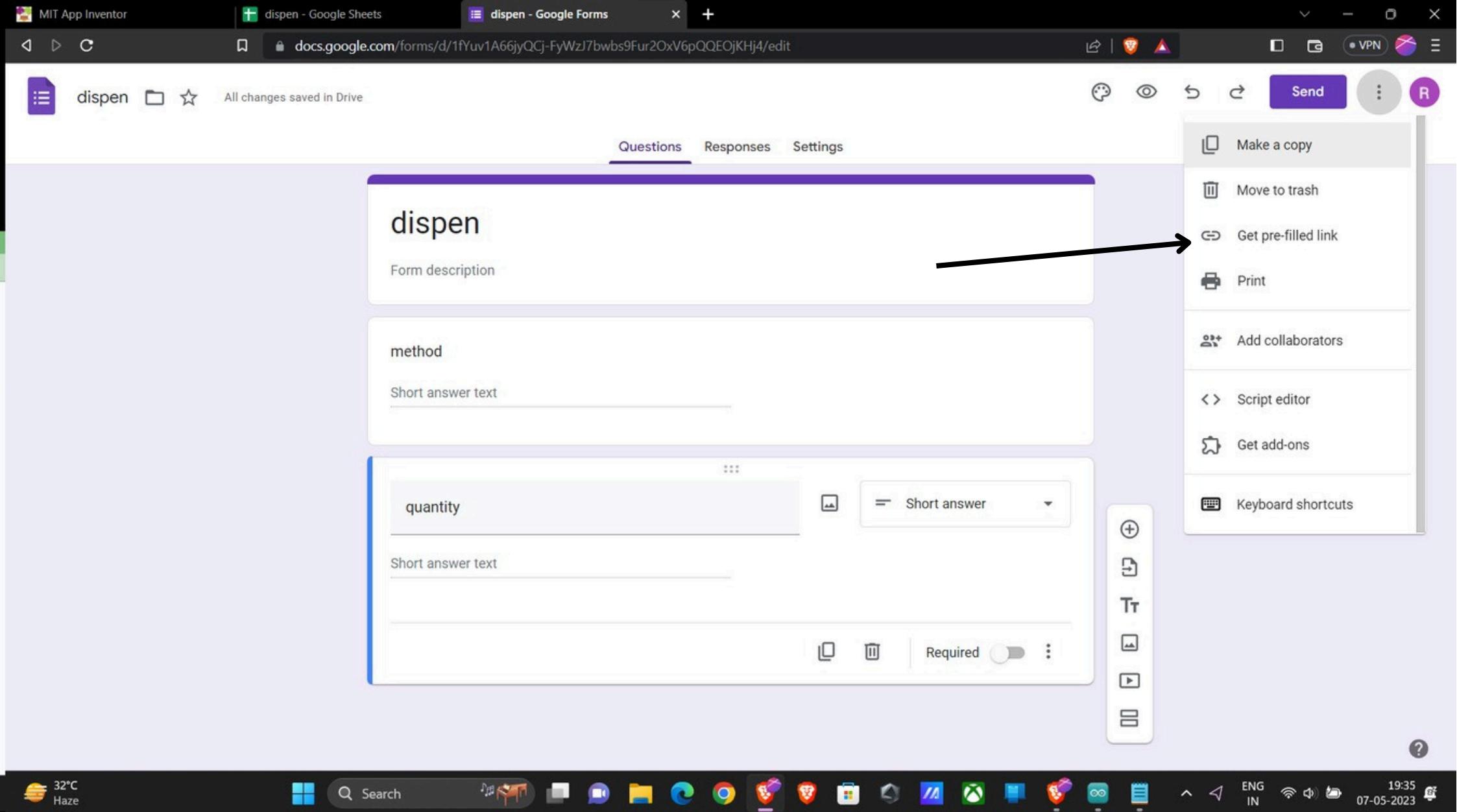
?

31°C Partly sunny

Search

19:34 07-05-2023

copy the above link from start to just before '/' and paste in the notepad



click three dot above->click get pre-filled link

MIT App Inventor dispen - Google Sheets dispen - Google Forms dispen docs.google.com/forms/d/1fYuv1A66jyQCj-FyWzJ7bwbs9Fur2OxV6pQQEOjKHj4/prefill

dispen

method

sdlkjflkdjf

quantity

sdhfdljfh

Get link

Never submit passwords through Google Forms.

This content is neither created nor endorsed by Google. [Report Abuse](#) - [Terms of Service](#) - [Privacy Policy](#)

Google Forms

Pre-fill responses, then click "Get link"

32°C Haze

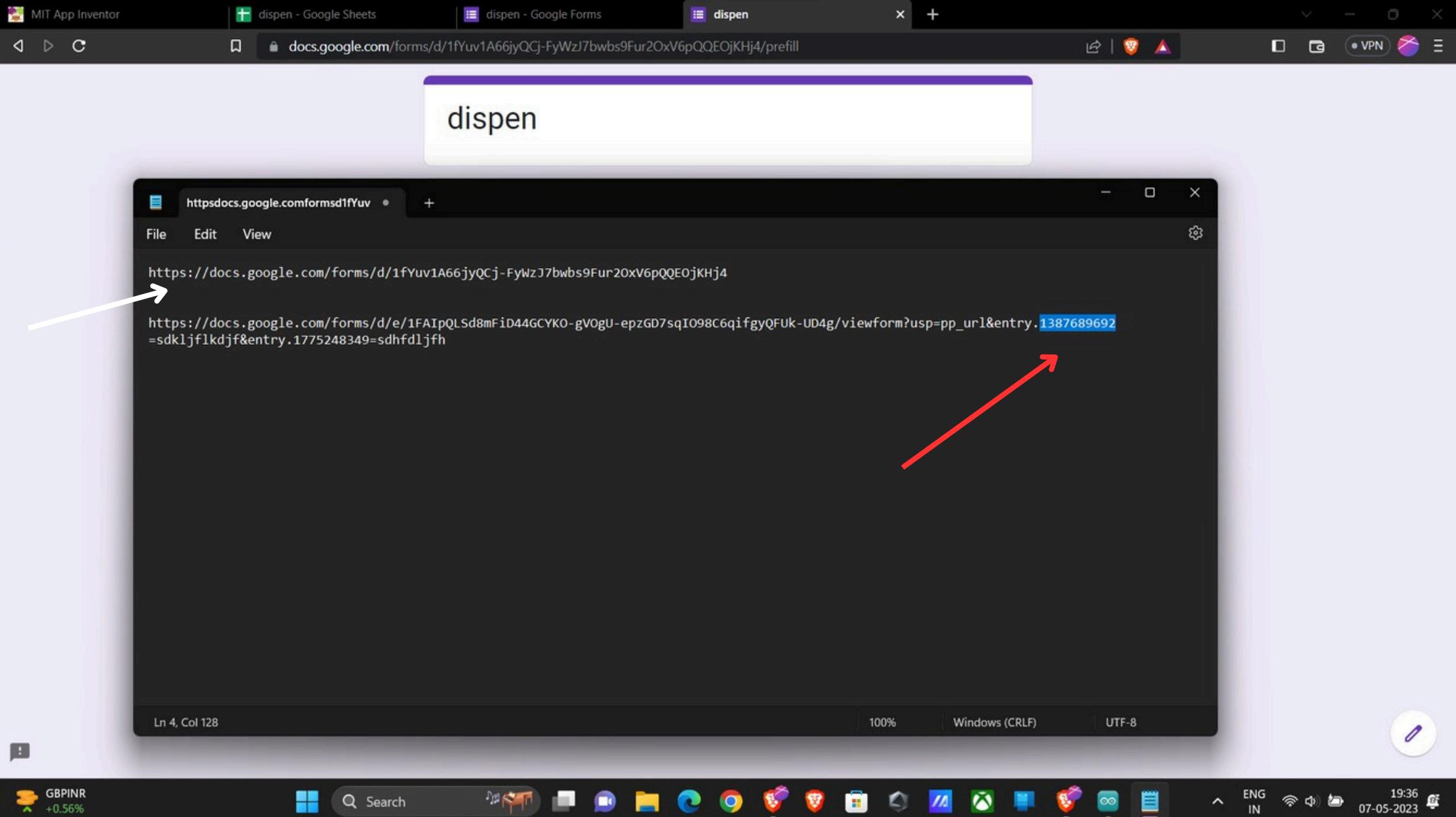
Search

19:35 07-05-2023

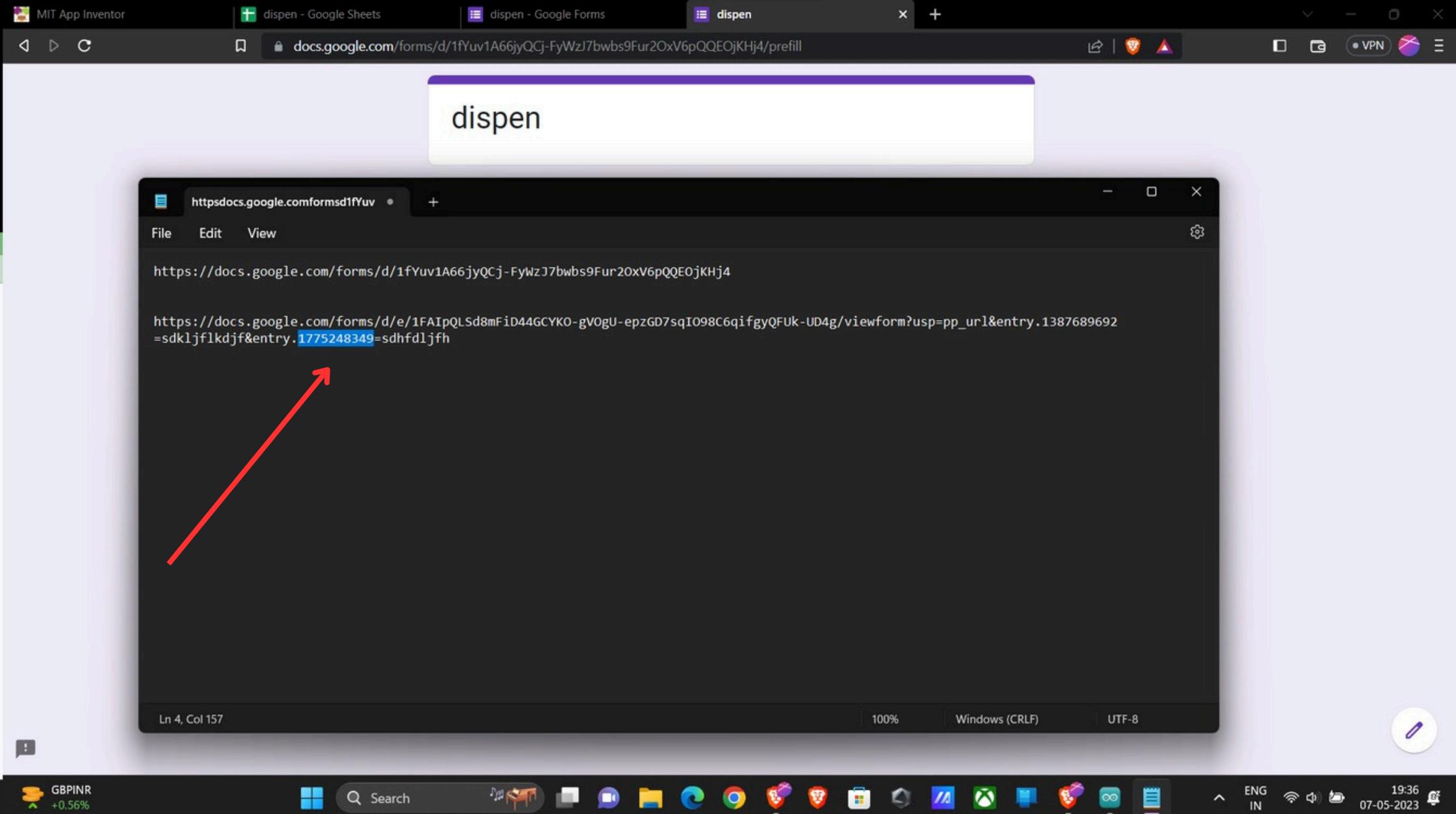
fill any random stuff and click **get link**.

MIT App Inventor dispen - Google Sheets dispen - Google Forms dispen docs.google.com/forms/d/1fYuv1A66jyQCj-FyWzJ7bwbs9Fur2OxV6pQQEOjKHj4/prefill

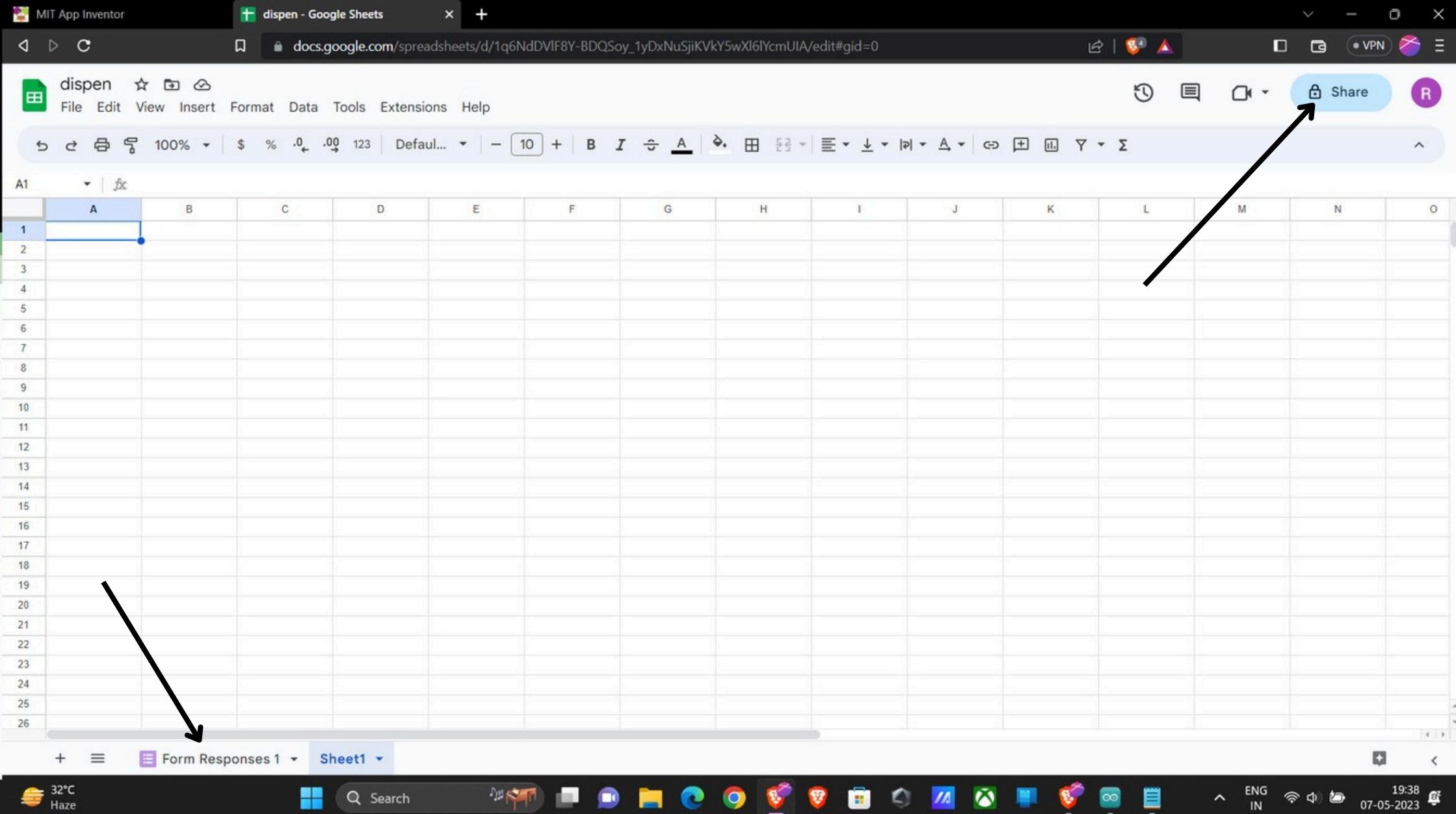
copy the link from **copy link** and paste in the notepad



white arrow indicate that it is base url for writing in sheet.  
red arrow indicate component Id we need to get both component id from the link



second component id



MIT App Inventor

dispen - Google Sheets

docs.google.com/spreadsheets/d/1q6NdDVf8Y-BDQSoj\_1yDxNuSjiKVkY5wXI6lYcmUIA/edit#gid=0

File Edit View Insert Format Data Tools Extensions Help

100% Default... 10 + B I A

A1

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

Form Responses 1 Sheet1

32°C Haze

Search

19:38 07-05-2023

goto form responses 1->share->select restricted change to anyone with the link->and copy the link and store in the notepad

MIT App Inventor

dispen - Google Sheets

docs.google.com/spreadsheets/d/1q6NdDVlF8Y-BDQSo\_1yDxNuSjiKVkY5wXl6lYcmUIA/edit#gid=1370665387

File Edit View Insert Format Data Tools Extensions Help

100% 123 Default... 10 + B I A

A1

1 Timestamp

2

3 https://docs.google.com/forms/d/1fYuv1A66jyQCj-FyWzJ7bwbs9Fur20xV6pQQEOjKHj4

4 1387689692

5 1775248349

6

7

8 https://docs.google.com/spreadsheets/d/1q6NdDVlF8Y-BDQSo\_1yDxNuSjiKVkY5wXl6lYcmUIA/edit?usp=sharing

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

Ln 7, Col 84

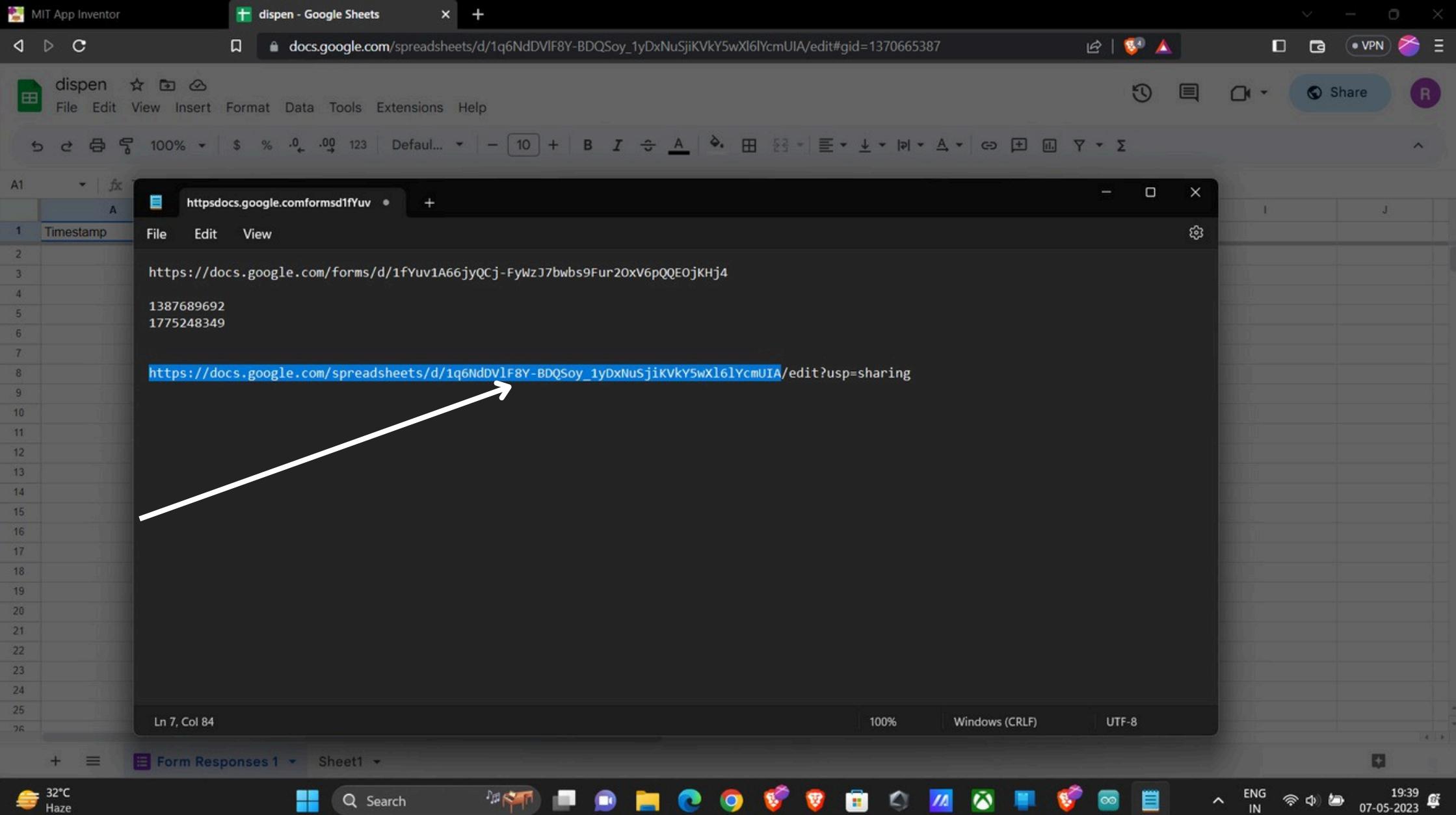
100% Windows (CRLF) UTF-8

Form Responses 1 Sheet1

32°C Haze

Search

19:39 07-05-2023



we need only link from start to just before '/'.

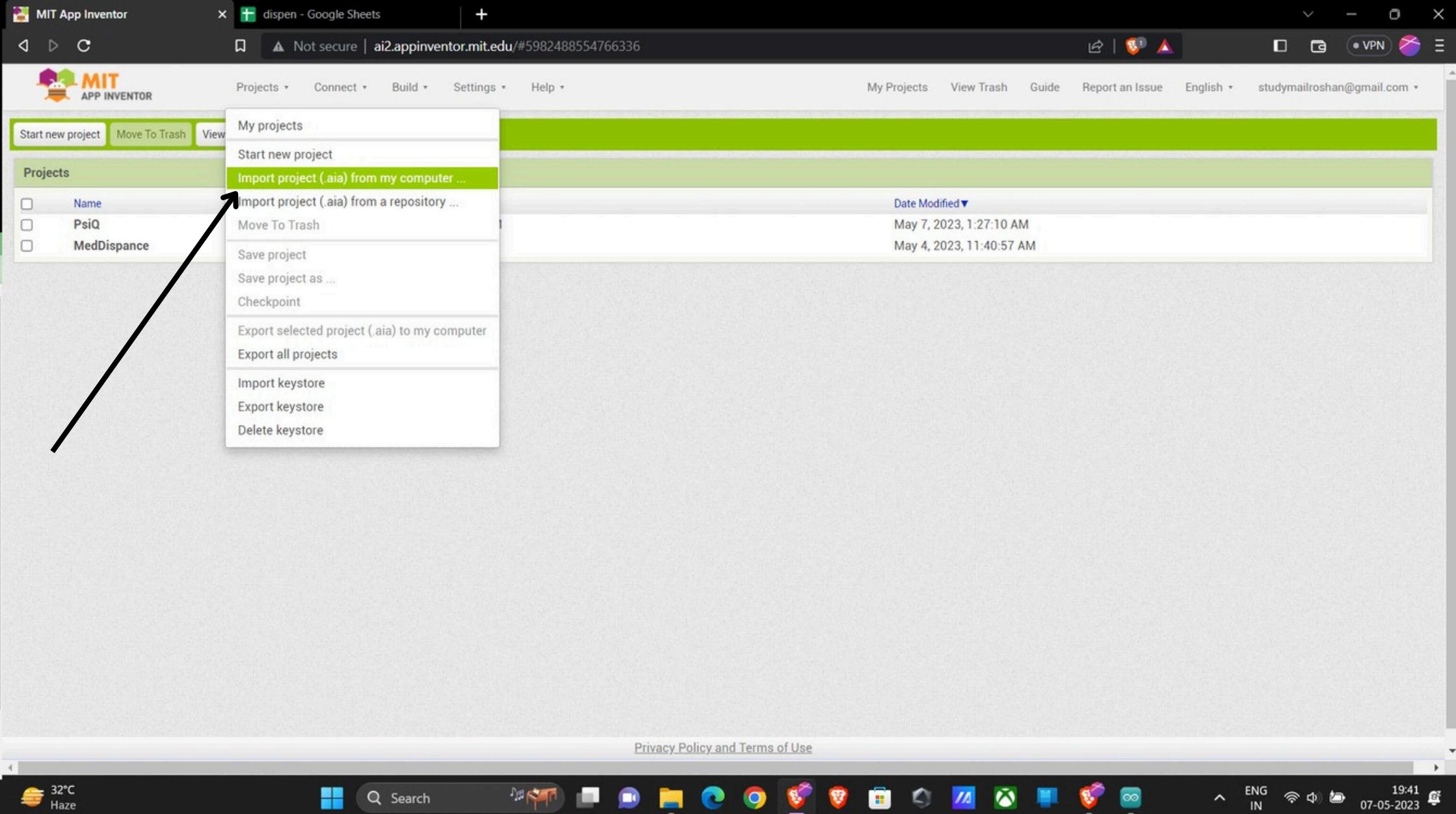


white arrow is base\_url

green arrows are component id or element id

red is the share public link for fetching data in app

# **CONNECTING APP TO GOOGLE SHEET IN MIT APP INVENTOR**



open mit app inventor ->under project select import project for my computer->choose .aia file given in the file and click ok

MIT App Inventor

dispen - Google Sheets

Not secure | ai2.appinventor.mit.edu/#4663634994003968

Projects Connect Build Settings Help My Projects View Trash Guide Report an Issue English studymailroshan@gmail.com

Roshan\_MEDapp Screen1 Add Screen ... Remove Screen Publish to Gallery Design Blocks

Palette

Search Components...

User Interface

- Button
- CheckBox
- DatePicker
- Image
- Label
- ListPicker
- ListView
- Notifier
- PasswordTextBox
- Slider
- Spinner
- Switch
- TextBox
- TimePicker
- WebViewer

Layout

Viewer

Display hidden components in Viewer

Phone size (505,320)

Components

- Screen1
  - HorizontalArrangement1
    - Image1
  - HorizontalArrangement2
    - Label4
    - Switch1
  - HorizontalArrangement3
    - Label7
    - qd1
    - Label5
    - qd2
    - Label6
    - qd3
  - HorizontalArrangement4
    - Label8

Properties

Screen1

AboutScreen

AccentColor Black

AlignHorizontal Left : 1

AlignVertical Top : 1

AppName MedDispense App

BackgroundColor Black

BackgroundImage None...

BigDefaultText

BlocksToolkit All

CloseScreenAnimation Default

DefaultFileScope App

HighContrast

Media

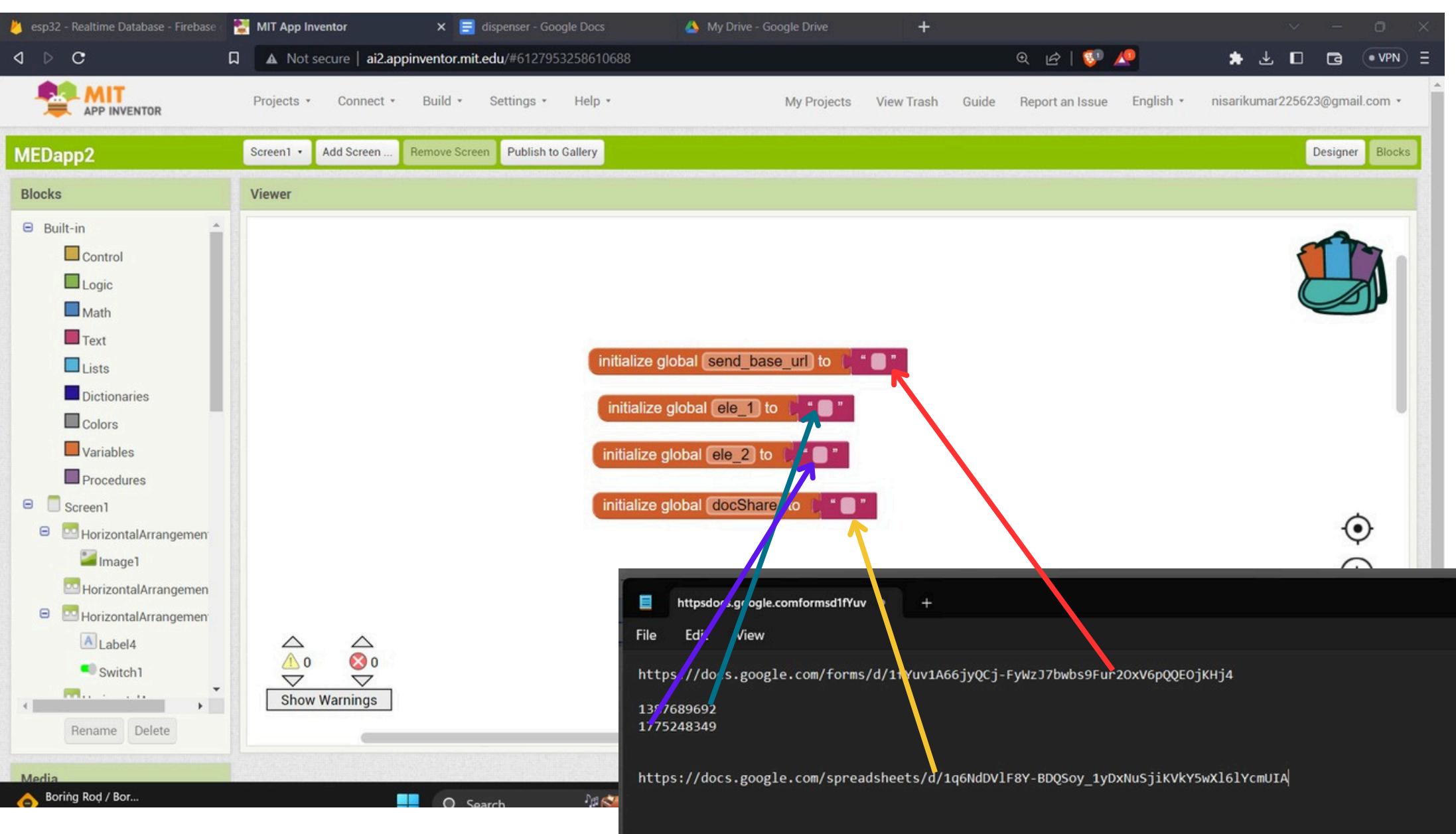
- MedDisApp.png
- Medicine\_Dispenser.png

32°C Haze

Search

19:42 07-05-2023

Add a little bit of body text



copy your link from note pad to the given block.

**MAKING FIREBASE REALTIME DATA BASE AND GETTING  
CREDENTIAL FROM THERE FOR CONNECTING APP TO  
NODEMCU**

MIT App Inventor dispen - Google Sheets **Firebase** firebase.google.com

Firebase Products Pricing Support More Search Language Go to console

Firebase is back at Google I/O on May 10! [Check out the sessions](#)

# Make your app the best it can be

Firebase is an app development platform that helps you build and grow apps and games users love. Backed by Google and trusted by millions of businesses around the world.

[Get started](#) [Try demo](#) [Watch video](#)



https://console.firebaseio.google.com

32°C Haze Search ENG IN 19:45 07-05-2023

open google firebase ->after sign in ->go to console

MIT App Inventor dispen - Google Sheets Create project - Firebase console +

console.firebaseio.google.com?pli=1

X Create a project (Step 1 of 3)

## Let's start with a name for your project <sup>?</sup>

Project name

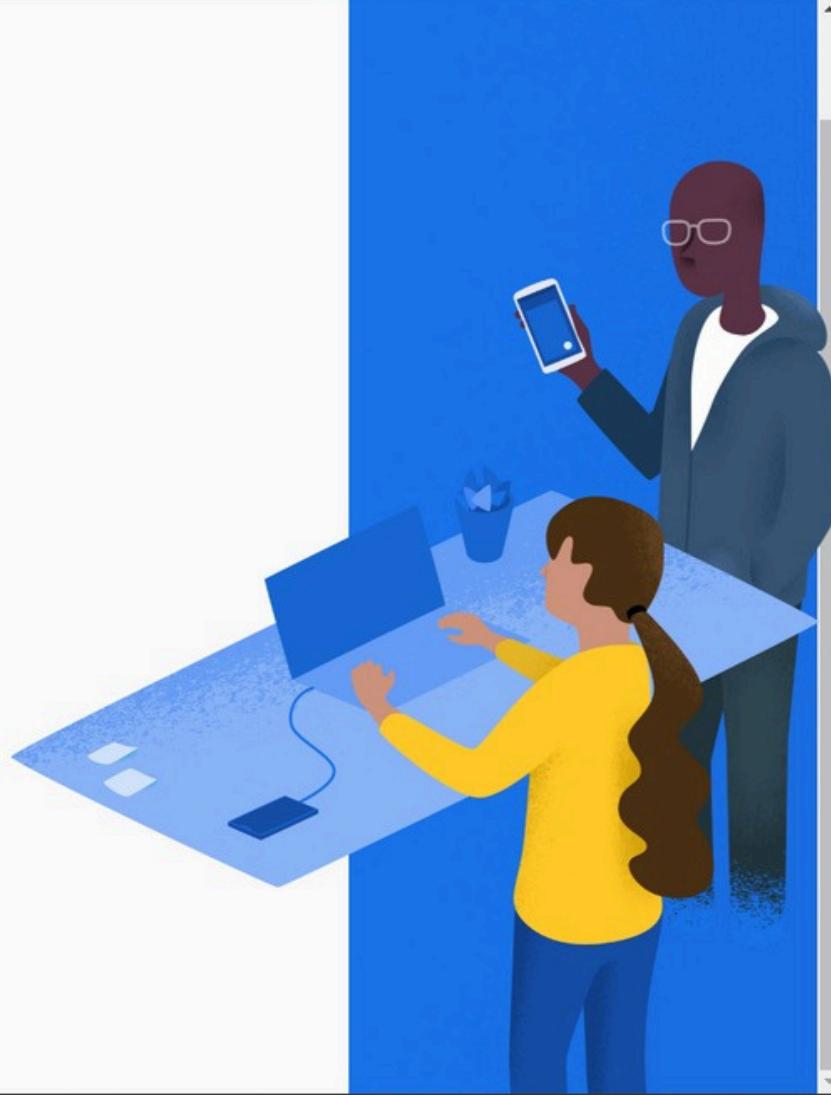
dispen

dispen-edf97

I accept the [Firebase terms](#)

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

Continue



A screenshot of a web browser showing the 'Create project - Firebase console' step 1 of 3. The page asks for a project name, which is 'dispen'. Below the name is a preview of the name followed by a unique ID. Two checkboxes are present: one for accepting the Firebase terms and another for confirming exclusive use for trade/business purposes. A large blue 'Continue' button is at the bottom. A black arrow points to the 'Continue' button. The browser's address bar shows the URL 'console.firebaseio.google.com?pli=1'. The taskbar at the bottom of the screen shows various application icons and the date '07-05-2023'.

add project name->click continue

MIT App Inventor dispen - Google Sheets dispen - Project settings - Firebase + https://console.firebaseio.google.com/project/disp.../settings/serviceaccounts/databasesecrets

Project settings

Project Overview

Product categories

Build

- Authentication
- App Check
- Firebase Database
- Realtime Database**
- Extensions
- Storage
- Hosting
- Functions
- Machine Learning
- Remote Config

Release & Monitor

Analytics

Engage

Spark No-cost \$0/month Upgrade

Manage service account permissions

Firebase Admin SDK

Legacy credentials

Database secrets

All service accounts

5 service accounts

Database Secrets

**⚠ Database secrets are currently deprecated and use a legacy Firebase token generator. Update your source code with the Firebase Admin SDK.**

Learn more

Create custom database authentication tokens using a legacy Firebase token generator. At least one secret must exist at all times. [Learn more](#)

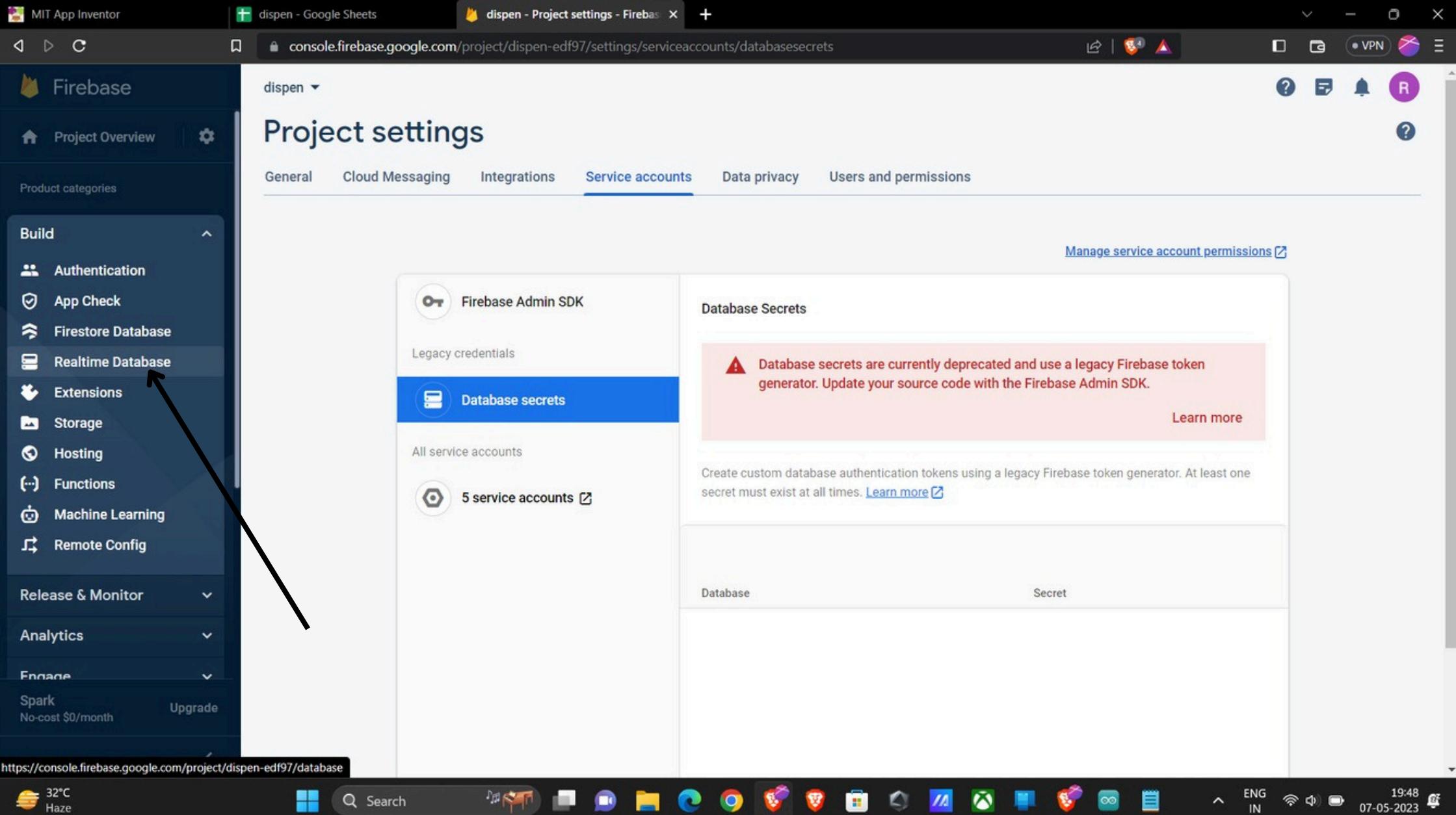
Database	Secret

https://console.firebaseio.google.com/project/disp.../database

32°C Haze

Search

19:48 07-05-2023



go to realtime database

## create data base

MIT App Inventor dispen - Google Sheets dispen - Realtime Database - Fire + console.firebaseio.google.com/project/disp... 🔍 7 3 VPN R

Firebase dispen Project Overview

Project shortcuts

Realtime Database

Product categories

Build

Release & Monitor

Analytics

Engage

All products

Customize your nav!

You can now focus your console experience by customizing your navigation

Learn more Got it

Spark No-cost \$0/month Upgrade

32°C Haze

Search

How do I get started? View the docs

Share

ENG IN 19:49 07-05-2023

**Set up database**

Database options 2 Security rules

Once you have defined your data structure you will have to write rules to secure your data. [Learn more](#)

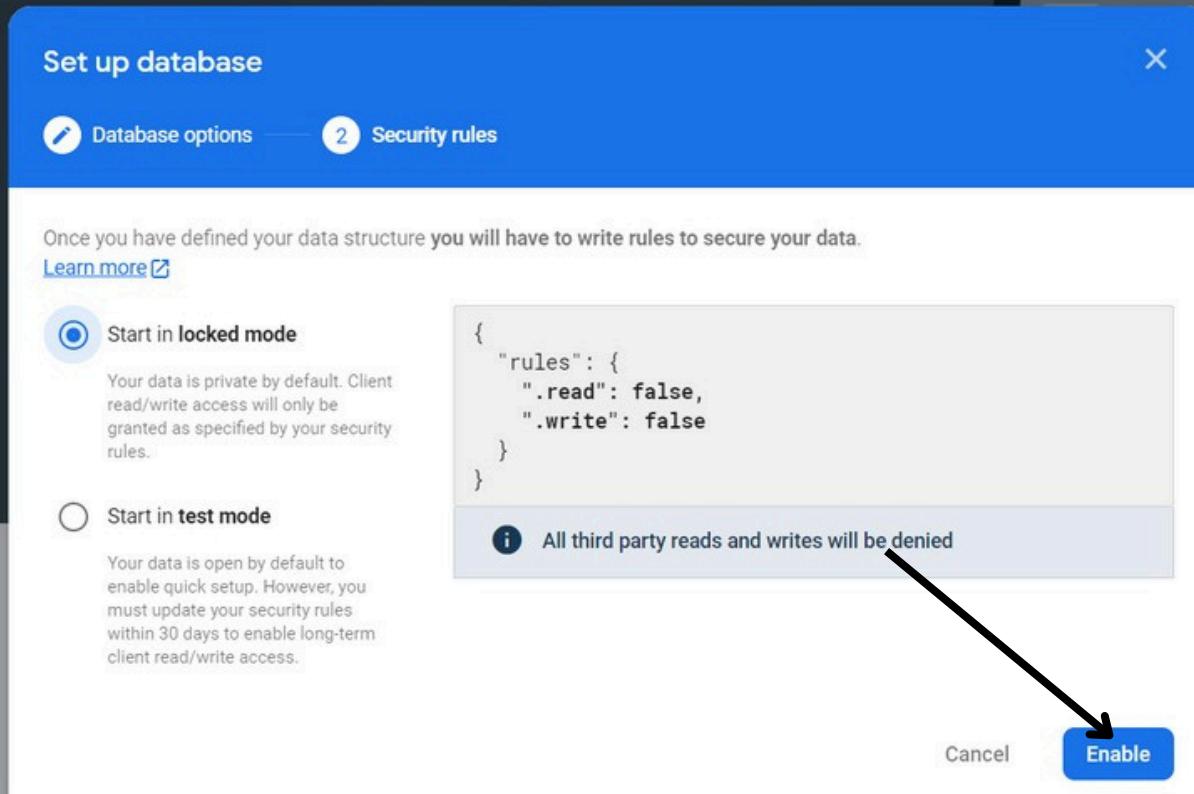
Start in **locked mode**  
Your data is private by default. Client read/write access will only be granted as specified by your security rules.

Start in **test mode**  
Your data is open by default to enable quick setup. However, you must update your security rules within 30 days to enable long-term client read/write access.

```
{ "rules": { ".read": false, ".write": false } }
```

**i** All third party reads and writes will be denied

Cancel **Enable**



click enable

MIT App Inventor dispen - Google Sheets dispen - Realtime Database - Fire + console.firebaseio.google.com/project/disp... dispen-edf97/database/disp... dispen-edf97-default-rt.../data

dispen

# Realtime Database

Data Rules Backups Usage Extensions NEW

Protect your Realtime Database resources from abuse, such as billing fraud or phishing Configure App Check X

https://disp... https://disp.../null +

Customize your nav!

You can now focus your console experience by customizing your navigation

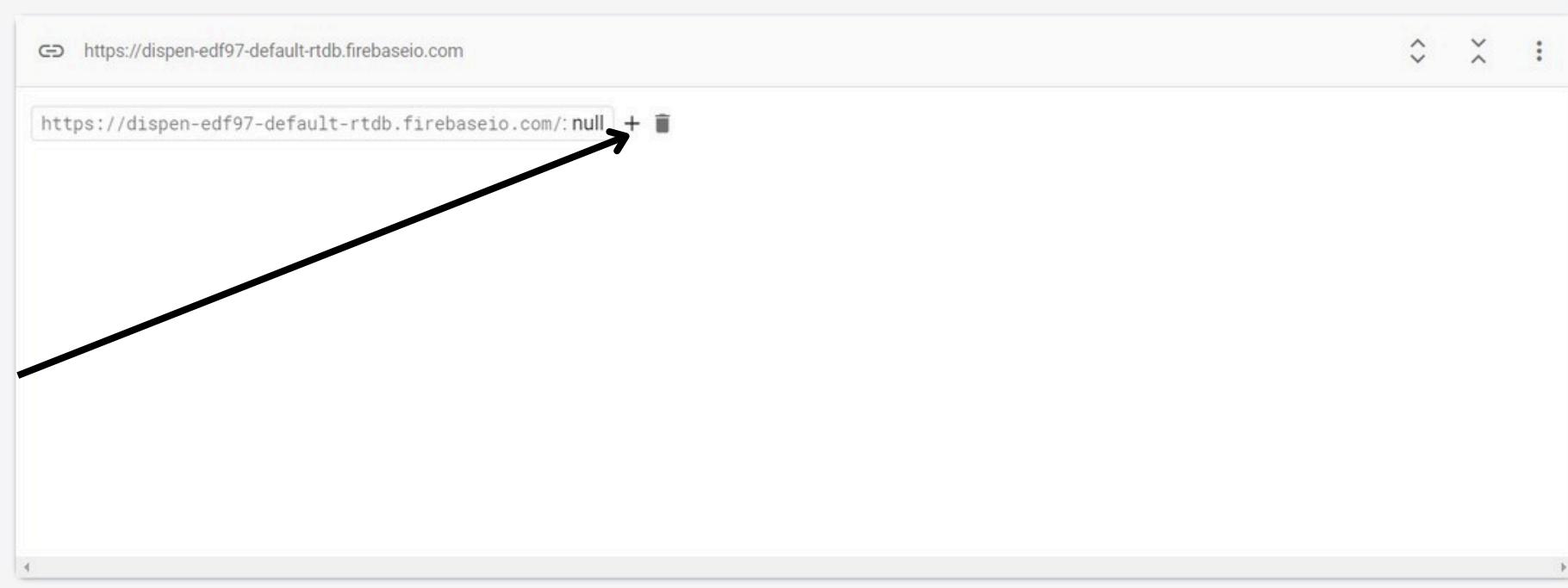
Learn more Got it

Spark No-cost \$0/month Upgrade

32°C Haze

Search

19:49 07-05-2023



click + icon to create a variable

MIT App Inventor dispen - Google Sheets dispen - Realtime Database - Fire + console.firebaseio.google.com/project/dispen-edf97/database/dispen-edf97-default-rtbd/data

?

Firebas

Project Overview

Project shortcuts

Realtime Database

Product categories

Build

Release & Monitor

Analytics

Engage

All products

Customize your nav!

You can now focus your console experience by customizing your navigation

Learn more Got it

Spark No-cost \$0/month Upgrade

32°C Haze

Search

19:51 07-05-2023

# Realtime Database

Data Rules Backups Usage Extensions NEW

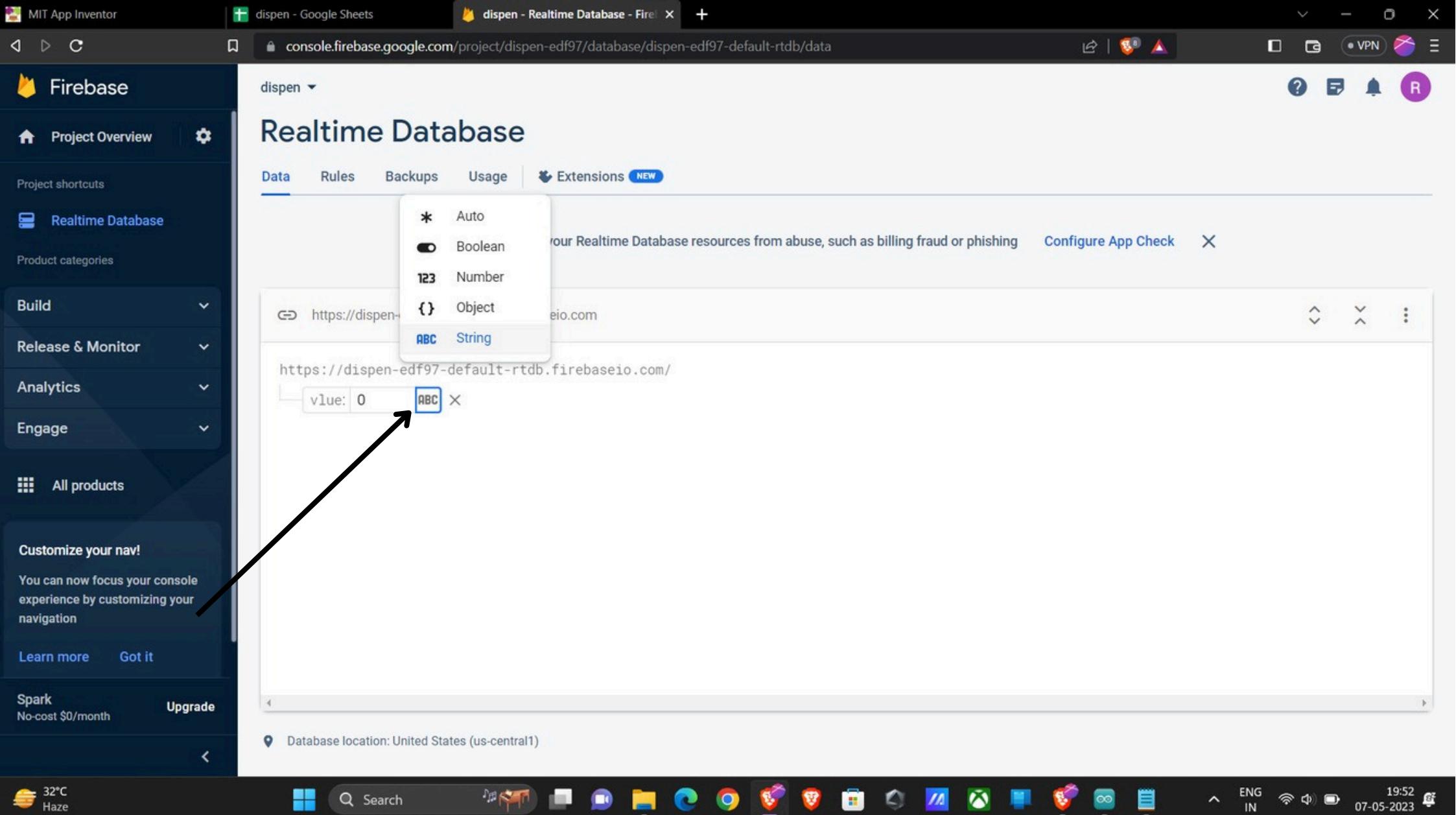
Protect your Realtime Database resources from abuse, such as billing fraud or phishing Configure App Check X

https://dispen-edf97-default-rtbd.firebaseio.com/ https://dispen-edf97-default-rtbd.firebaseio.com/ value: 0 ABC X

Database location: United States (us-central1)



name the variable **vlue** and key **0**.



MIT App Inventor dispen - Google Sheets dispen - Realtime Database - Fire + console.firebaseio.google.com/project/disp... dispen-edf97/database/disp... dispen-edf97-default-rt.../data

dispen

## Realtime Database

Data Rules Backups Usage Extensions NEW

Auto Boolean Number Object String

Configure App Check X

https://disp... https://disp... https://disp.../value: 0 ABC X

Customize your nav!

You can now focus your console experience by customizing your navigation

Learn more Got it

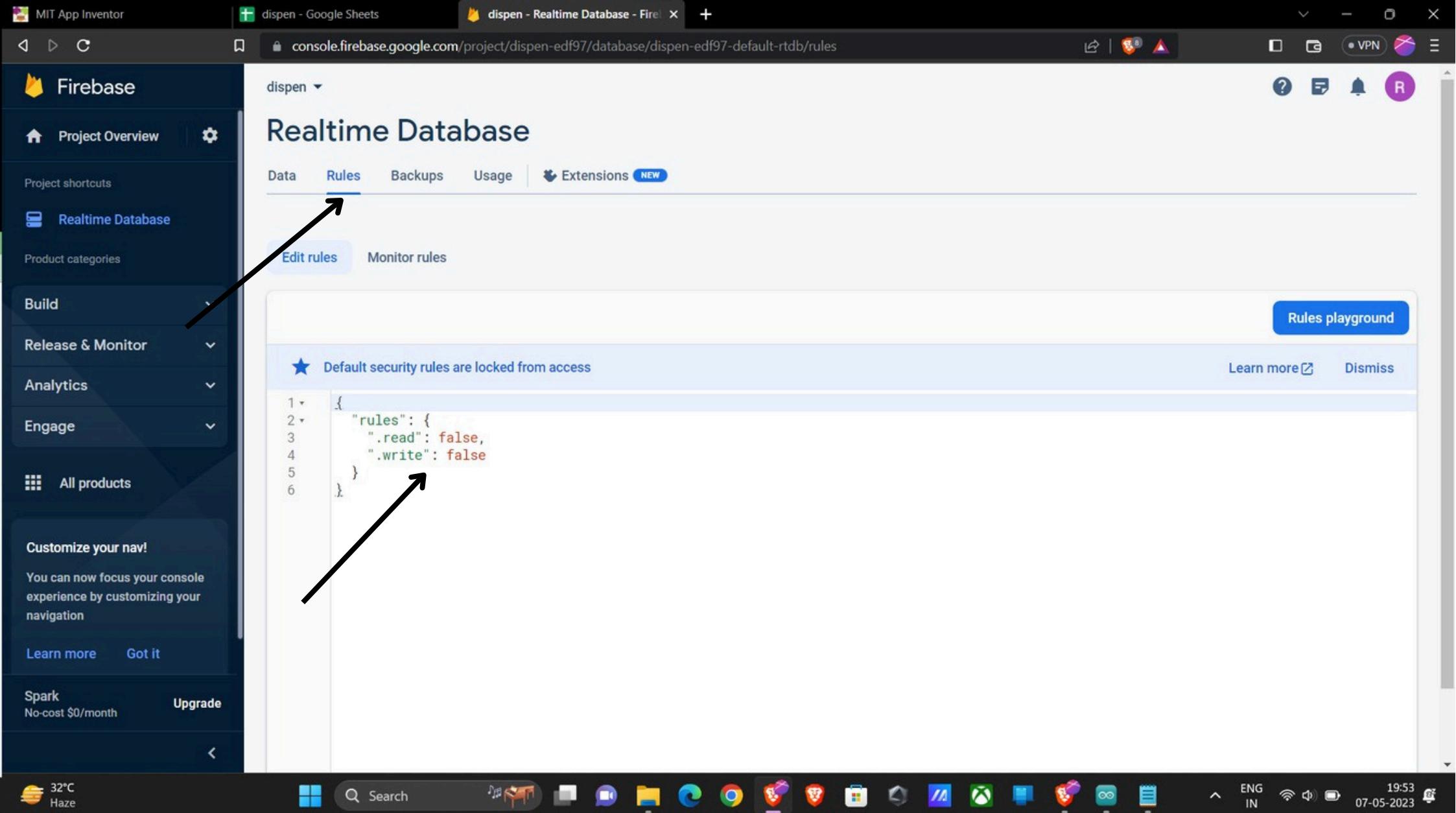
Spark No-cost \$0/month Upgrade

32°C Haze

Search

Database location: United States (us-central1)

from here select string because the value is string value



MIT App Inventor

dispen - Google Sheets

dispen - Realtime Database - Fire

console.firebaseio.google.com/project/dispen-edf97/database/dispen-edf97-default-rtbd/rules

?

VPN

R

**Firebase**

Project Overview

Project shortcuts

Realtime Database

Product categories

Build

Release & Monitor

Analytics

Engage

All products

Customize your nav!

You can now focus your console experience by customizing your navigation

Learn more Got it

Spark  
No-cost \$0/month

Upgrade

32°C Haze

Search

ENG IN

19:53 07-05-2023

## Realtime Database

Data Rules Backups Usage Extensions NEW

Edit rules Monitor rules

Rules playground

Default security rules are locked from access

Learn more Dismiss

```
1  {
2   "rules": {
3     ".read": false,
4     ".write": false
5   }
6 }
```

and go to the rules and change the **.read** and **.write** value to **true**.

MIT App Inventor dispen - Google Sheets dispen - Realtime Database - Fire + console.firebaseio.google.com/project/dispen-edf97/database/dispen-edf97-default-rtdb/rules

?

Firebase

Project Overview

Project shortcuts

Realtime Database

Product categories

Build

Release & Monitor

Analytics

Engage

All products

Customize your nav!

You can now focus your console experience by customizing your navigation

Learn more Got it

Spark No-cost \$0/month Upgrade

32°C Haze

Search

1 unpublished changes

Rules playground

Edit rules Monitor rules

unpublished changes

Publish Discard

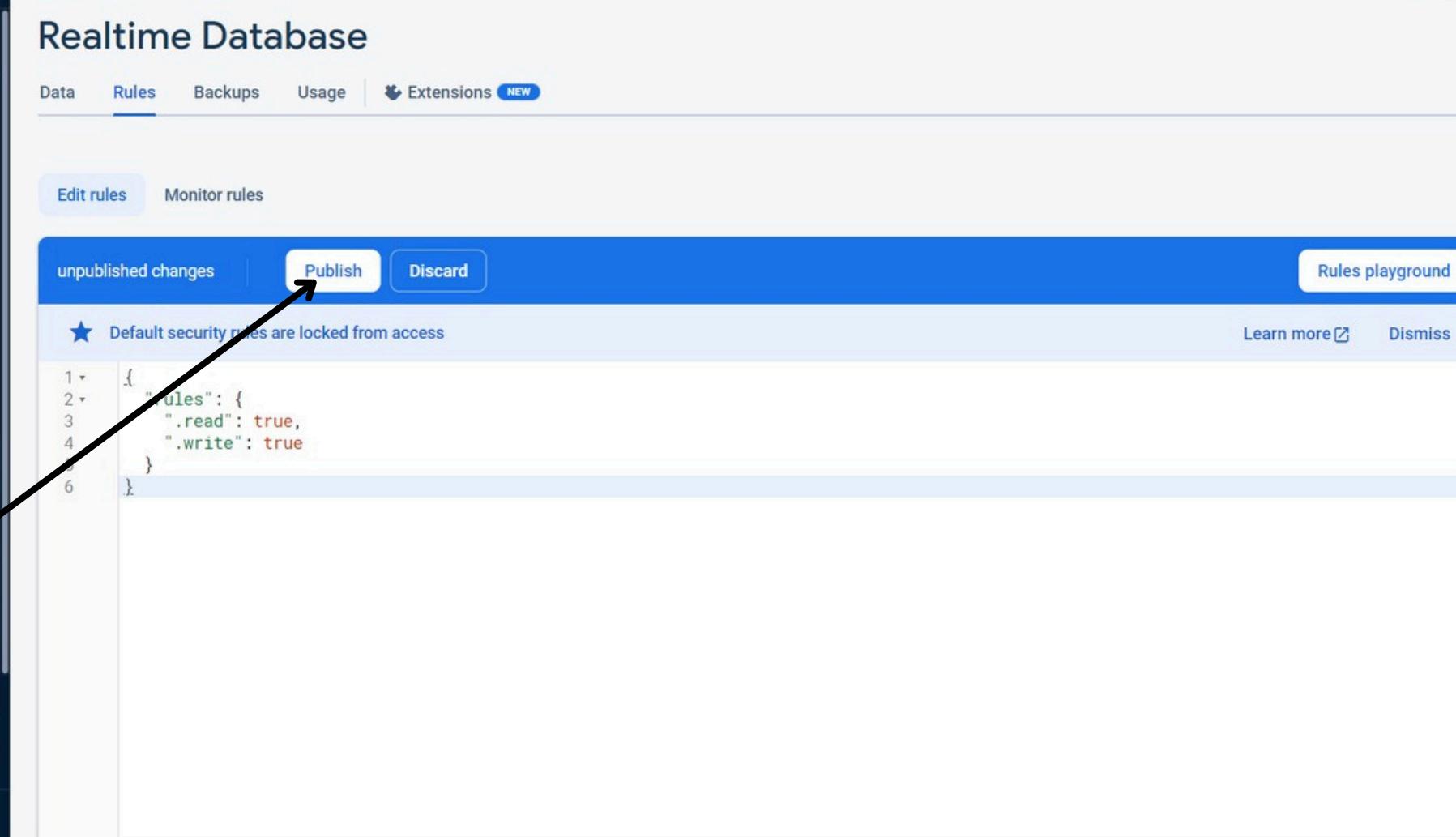
Default security rules are locked from access

Learn more Dismiss

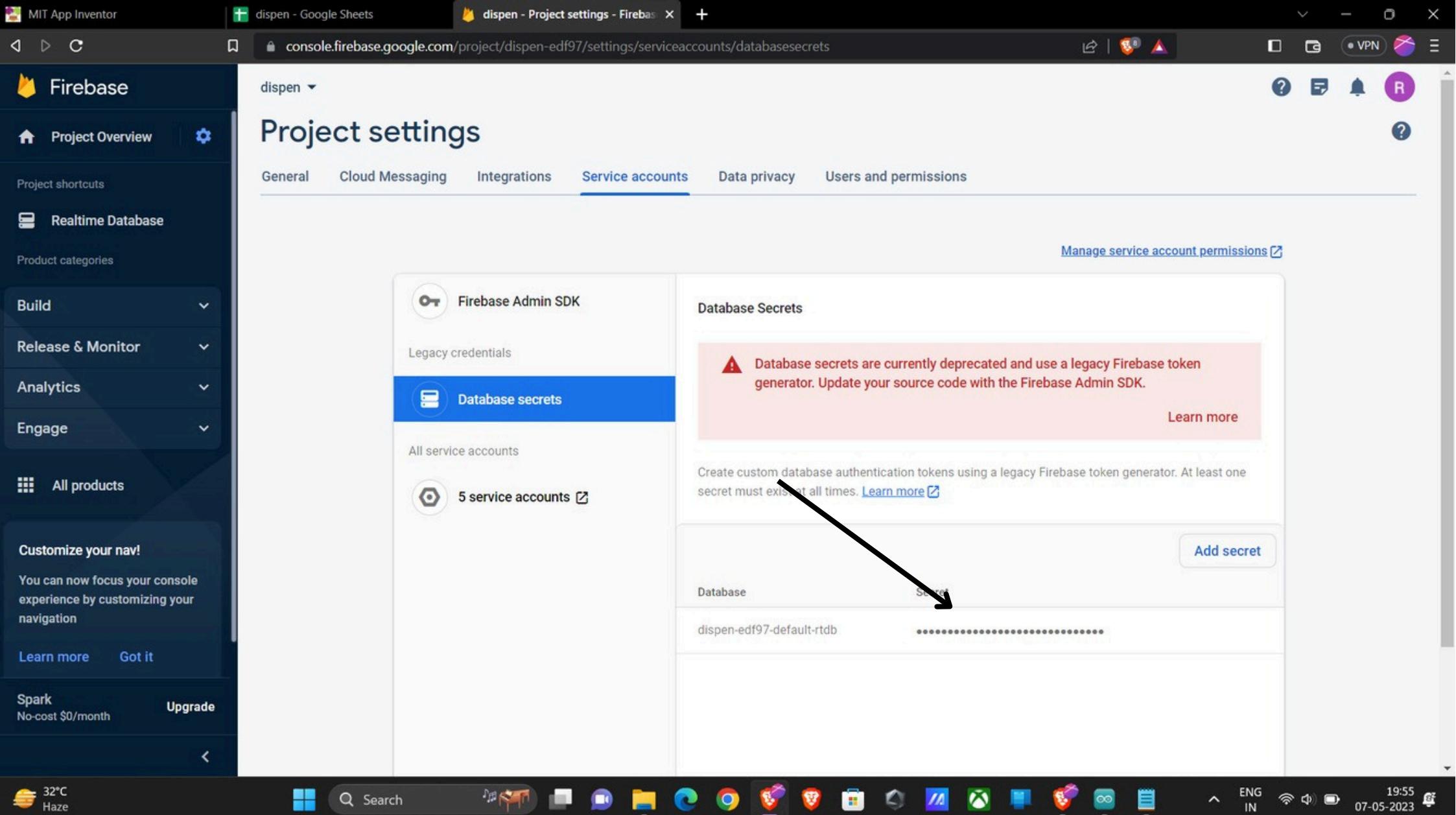
```
1  {
2    "rules": {
3      ".read": true,
4      ".write": true
5    }
6 }
```

Realtime Database

Data Rules Backups Usage Extensions NEW



and click publish



project setting -> service account -> database secret->copy the secret key and paste in note pad

MIT App Inventor dispen - Google Sheets dispen - Project settings - Firebase console.firebaseio.google.com/project/dispen-edf97/settings/serviceaccounts/databasesecrets

Project Overview

Realtime Database

Product categories

Build

Release & Monitor

Analytics

Engage

All products

Customize your nav!

You can now focus your console experience by customizing your navigation

Learn more Got it

Spark No-cost \$0/month Upgrade

32°C Haze

Search

Firebase Admin SDK

Legacy credentials

Database secrets

All service accounts

5 service accounts

Database Secrets

⚠ Database secrets are currently deprecated and use a legacy Firebase token generator. Update your source code with the Firebase Admin SDK.

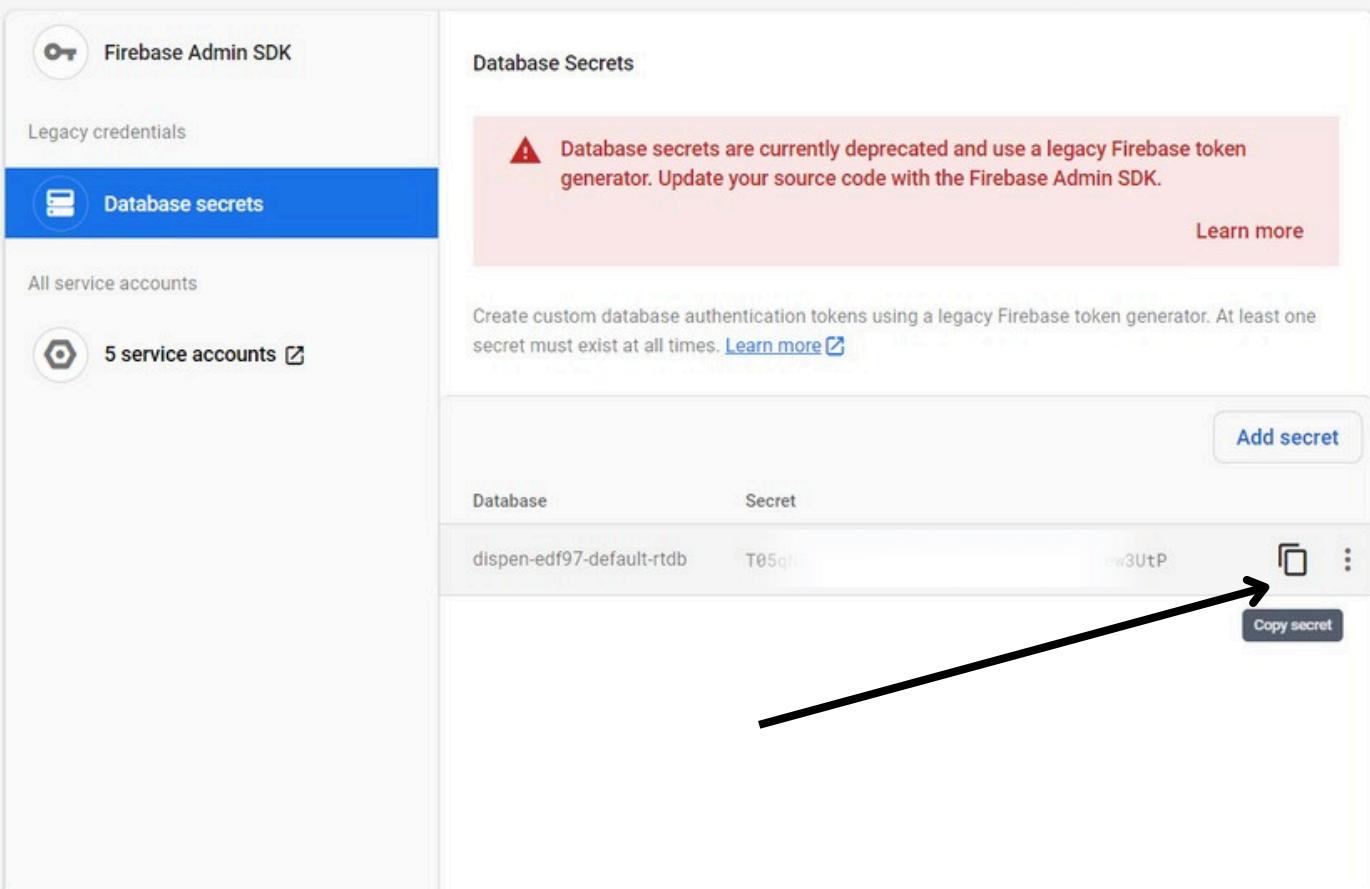
Learn more

Create custom database authentication tokens using a legacy Firebase token generator. At least one secret must exist at all times. [Learn more](#)

Add secret

Database	Secret
dispen-edf97-default-rtdb	T05qN...ew3UtP

Copy secret



copy from clicking that

MIT App Inventor dispen - Google Sheets dispen - Project settings - Firebase + console.firebaseio.google.com/project/dispense-df97/settings/general 🔍 VPN R

**Firebase** dispen Project settings

Project Overview

Project shortcuts

Realtime Database

Product categories

**Build**

- Authentication** 
- App Check
- Firestore Database
- Realtime Database
- Extensions
- Storage
- Hosting
- Functions
- Machine Learning
- Remote Config

Release & Monitor

Spark No-cost \$0/month Upgrade

Your project

Project name dispen 

Project ID dispen-edf97

Project number 1921709523

Default GCP resource location Not yet selected 

Web API Key No Web API Key for this project

Environment

This setting customizes your project for different stages of the app lifecycle

Environment type Unspecified 

Public settings

These settings control instances of your project shown to the public

Public-facing name project-1921709523 

Support email Not configured

https://console.firebaseio.google.com/project/dispense-df97/authentication/users

32°C Haze  ENG IN 19:57 07-05-2023

go to authentication

MIT App Inventor dispen - Google Sheets dispen - Authentication - Firebase + console.firebaseio.google.com/project/disp... 🔍 ⚡ VPN 🔍

**Firebase** dispen Authentication ? ⚡ 🔍 R

Project Overview

Project shortcuts

Realtime Database

Authentication

Product categories

Build

Release & Monitor

Analytics

Engage

All products

Customize your nav!

You can now focus your console experience by customizing your navigation

Spark No-cost \$0/month Upgrade

32°C Haze

Search

Advanced

Sign-in providers

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

Native providers

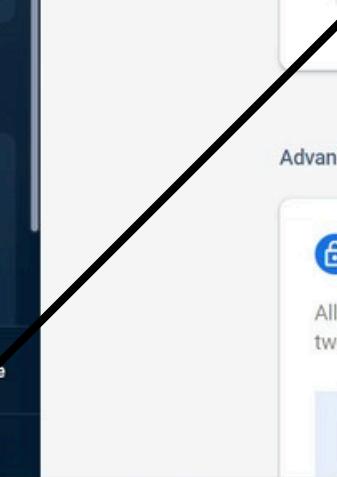
- Email/Password
- Phone
- Anonymous

Additional providers

- Google
- Facebook
- Play Games
- Game Center
- Apple
- Github
- Microsoft
- Twitter
- Yahoo

Custom providers

- OpenID Connect
- SAML



select anonymous under sign in

MIT App Inventor dispen - Google Sheets dispen - Authentication - Firebase + console.firebaseio.google.com/project/disp... 🔍 ⚡ VPN 🔍

**Firebase** dispen Authentication ? ⚡ 🔍 R

Project Overview

Realtime Database

Authentication

Project shortcuts

Anonymous

Enable

Cancel Save

Sign-in providers

Anonymous

Enable anonymous guest accounts in your application, which lets you enforce user-specific Security and Firebase Rules without requiring credentials from your users. [Learn more](#)

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 log in to your application using their phone number and a one-time code sent via SMS. [Learn more](#)

★ MFA and other advanced features are available with Identity Platform, Google Cloud's complete customer identity solution, in partnership with Firebase. This upgrade is available on both the Spark and Blaze plans. [Upgrade to enable](#)

Snipping Tool

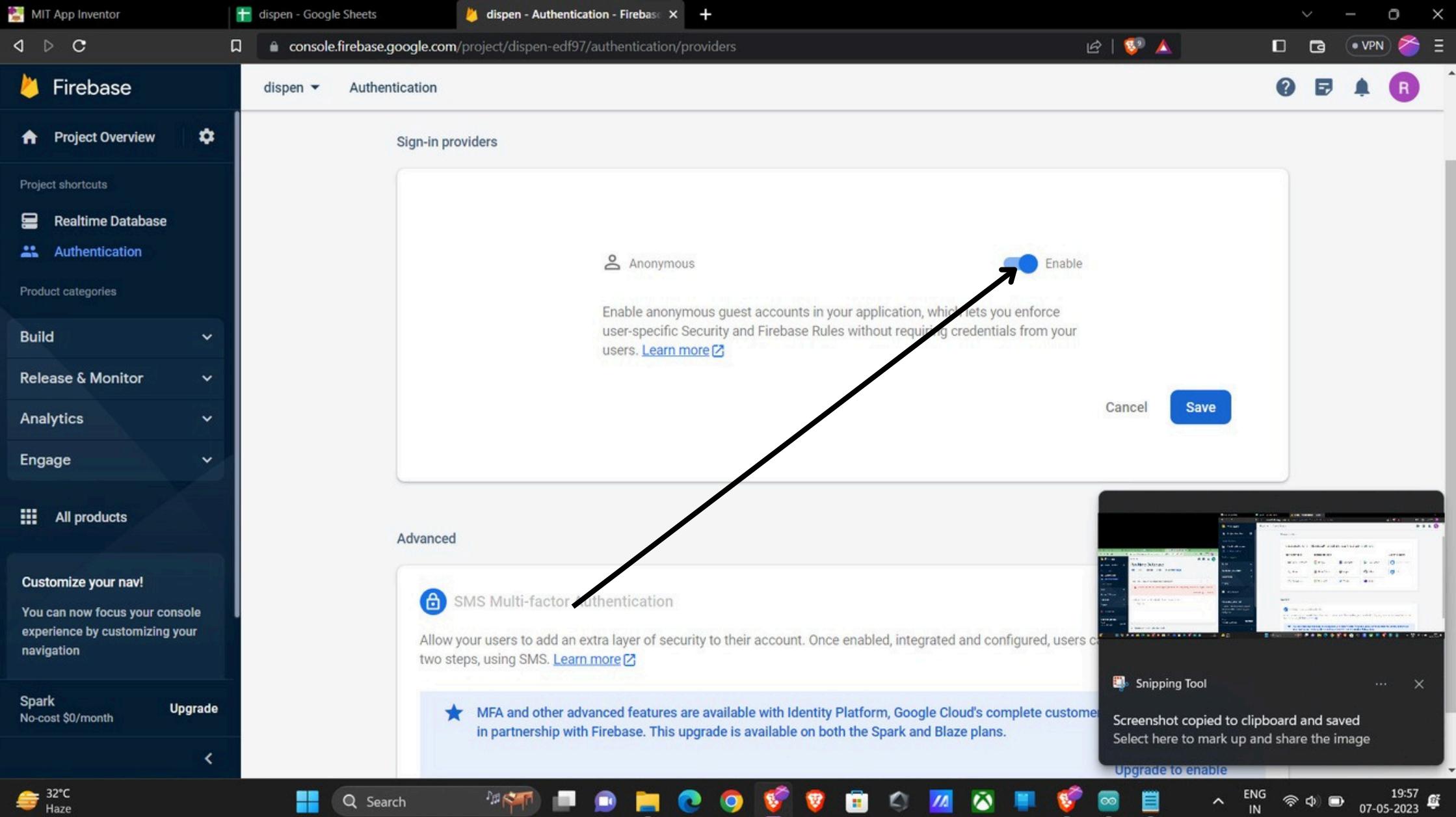
Screenshot copied to clipboard and saved

Select here to mark up and share the image

32°C Haze

Search

19:57 07-05-2023



click enable and save it

[Add new provider](#)

## Provider

## Status

 Email/Password Enabled Anonymous Enabled

Cross origin redirect sign-in on Google Chrome M115+ is no longer supported, and will stop working on June 24, 2024.



Search by email address, phone number, or user UID

[Add user](#)

## Identifier

## Providers

Created 

## Signed In

## User UID

nishantshekharsoni@g...



May 15, 2024

Jul 29, 2024

ZeLZqSzCX8VcUgiiMLsuHwrt...

and also enable email/password Anonymous for app and email for node mcu

MIT App Inventor dispen - Google Sheets dispen - Project settings - Firebase + console.firebaseio.google.com/project/dispensedf97/settings/general 🔍 ⚡ ⚡ VPN ⚡

**Firebase** dispen Project settings ? ⚡ ⚡ ⚡ ⚡

**Project Overview** 🔍

Project shortcuts

Realtime Database

Authentication

Product categories

Build

Release & Monitor

Analytics

Engage

All products

Customize your nav!

You can now focus your console experience by customizing your navigation

Spark No-cost \$0/month Upgrade

32°C Haze

Search

19:58 07-05-2023

Your project

Project name dispen

Project ID dispensedf97

Project number 1921709523

Default GCP resource location Not yet selected

Web API Key AlzaSy... YSnisDg

Environment

This setting customizes your project for different stages of the app lifecycle

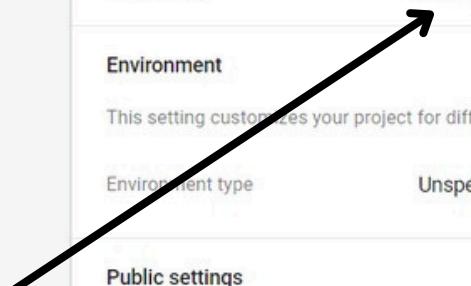
Environment type Unspecified

Public settings

These settings control instances of your project shown to the public

Public-facing name project-1921709523

Support email Not configured



go to project setting and copy web API key

# CONNECTING FIREBASE TO APP

MIT App Inventor

Not secure | ai2.appinventor.mit.edu/#4663634994003968

Switch1

HorizontalArrangement

HorizontalArrangement

Label7

qd1

Label5

qd2

Label6

qd3

HorizontalArrangement

HorizontalArrangement

BackgroundImage

None...

BigDefaultText

BlocksToolkit

All

Rename Delete

Media

MedDisApp.png

Medicine...enser.png

Upload File ...

Non-visible components

Notifier1

Notifier1

firebaseDB1

Web1Read

Web2Send

FirebaseDB1

Left: 1

AlignVertical

Top: 1

AppName

MedDispense App

BackgroundColor

Black

BackgroundImage

None...

BigDefaultText

BlocksToolkit

All

CloseScreenAnimation

Default

DefaultFileScope

App

HighContrast

Icon

MedicineDispenser.png...

OpenScreenAnimation

Default

PrimaryColor

Default

PrimaryColorDark

Default

ScreenOrientation

Portrait

Scalable

32°C Haze

Search

19:59

07-05-2023

goto firebaseDB1

MIT App Inventor

dispen - Google Sheets

dispen - Realtime Database - Firebase

Not secure | ai2.appinventor.mit.edu/#4663634994003968

Projects Connect Build Settings Help My Projects View Trash Guide Report an Issue English studymailroshan@gmail.com

Roshan\_MEDapp

Screen1 Add Screen ... Remove Screen Publish to Gallery Designer Blocks

Palette

User Interface

- Button
- CheckBox
- DatePicker
- Image
- Label
- ListPicker
- ListView
- Notifier
- PasswordTextBox
- Slider
- Spinner
- Switch
- TextBox
- TimePicker
- WebViewer

Layout

Viewer

Display hidden components in Viewer

Phone size (505,320)

9:48

Medicine Dispenser

Medicine Dispenser

On/Off

Components

- Screen1
  - HorizontalArrangement1
    - Image1
  - HorizontalArrangement2
    - Label4
    - Switch1
  - HorizontalArrangement3
    - Label7
    - qd1
    - Label5
    - qd2
    - Label6
    - qd3
  - HorizontalArrangement4
    - HorizontalArrangement5
      - HorizontalArrangement6

Properties

FirebaseDB1

FirebaseToken

T05qNBhjVmUgUnKGpgBli

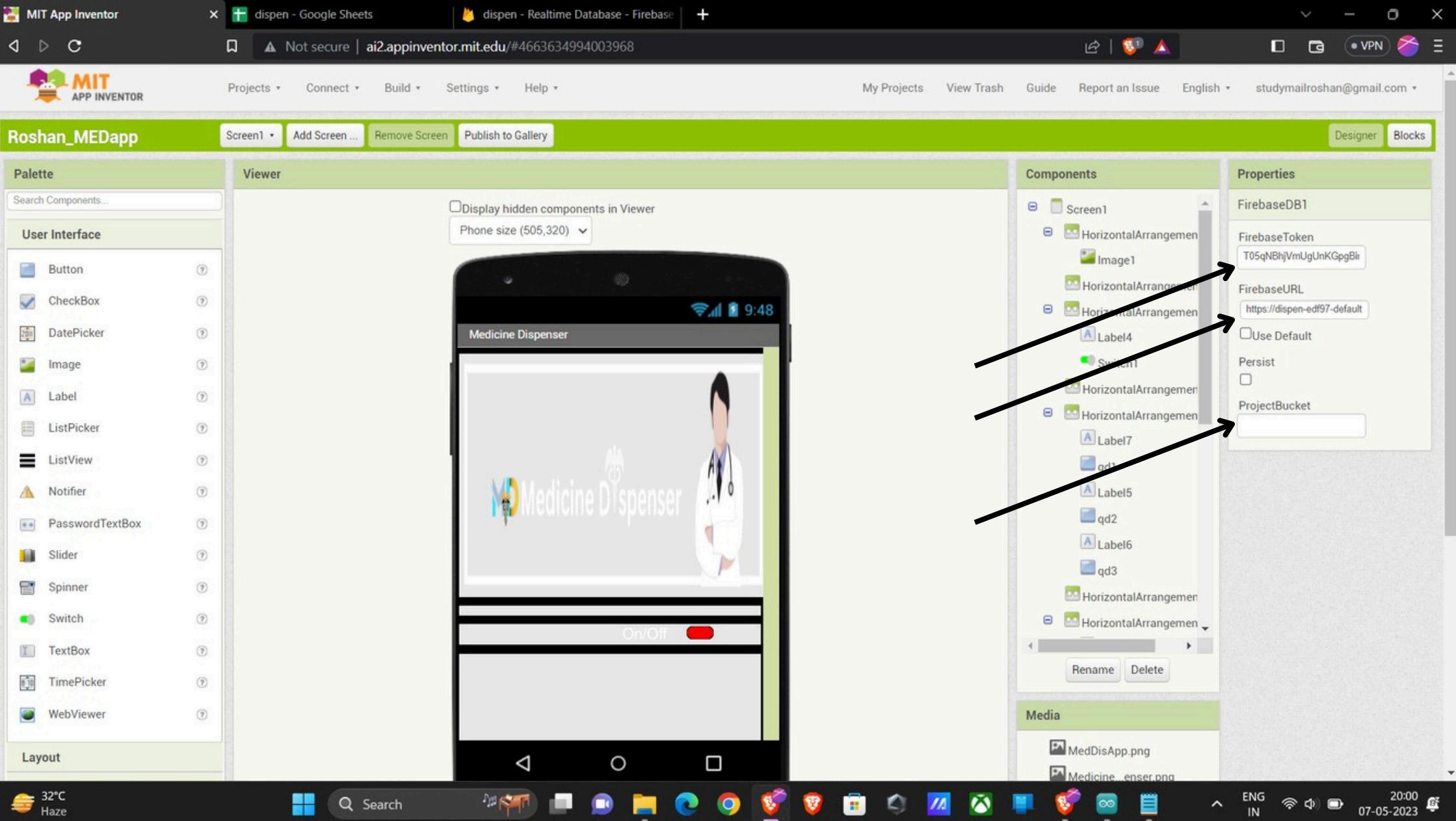
FirebaseURL

https://dispen-edf97-default

Use Default

Persist

ProjectBucket



paste firebase secret in the token field  
paste firebase database url in the url field  
**make sure that projectBucket is empty.**

MIT App Inventor

dispen - Google Sheets

dispen - Realtime Database - Firebase

Not secure | ai2.appinventor.mit.edu/#4663634994003968

Projects Connect Build Settings Help My Projects View Trash Guide Report an Issue English studymailroshan@gmail.com

VPN

MIT APP INVENTOR

Roshan\_MEDapp

Screen1 Add Screen ...

Android App (.apk)  
Android App Bundle (.aab)

Palette

Search Components...

User Interface

- Button
- CheckBox
- DatePicker
- Image
- Label
- ListPicker
- ListView
- Notifier
- PasswordTextBox
- Slider
- Spinner
- Switch
- TextBox
- TimePicker
- WebViewer

Layout

Viewer

Display hidden components in Viewer

Phone size (505,320)

9:48

Medicine Dispenser

MD Medicine Dispenser

On/Off

Components

- Screen1
  - HorizontalArrangement
    - Image1
  - HorizontalArrangement
    - Label4
    - Switch1
  - HorizontalArrangement
    - Label7
    - qd1
    - Label5
    - qd2
    - Label6
    - qd3
  - HorizontalArrangement
    - HorizontalArrangement
      - Label8

Properties

FirebaseDB1

FirebaseToken T05qNBhjVmUgUnKGpgBli

FirebaseURL https://dispen-edf97-default

Use Default

Persist

ProjectBucket

Rename Delete

Media

- MedDisApp.png
- Medicine\_Dispenser.png

32°C Haze

Search

20:01

ENG IN

07-05-2023

goto build and download android apk

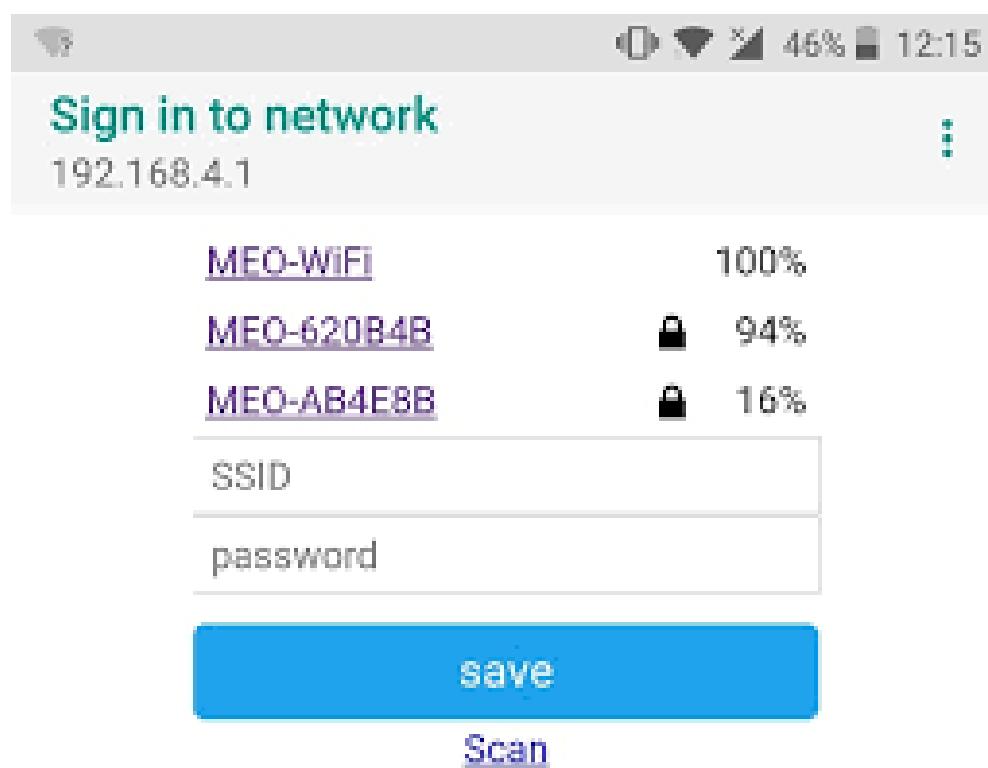
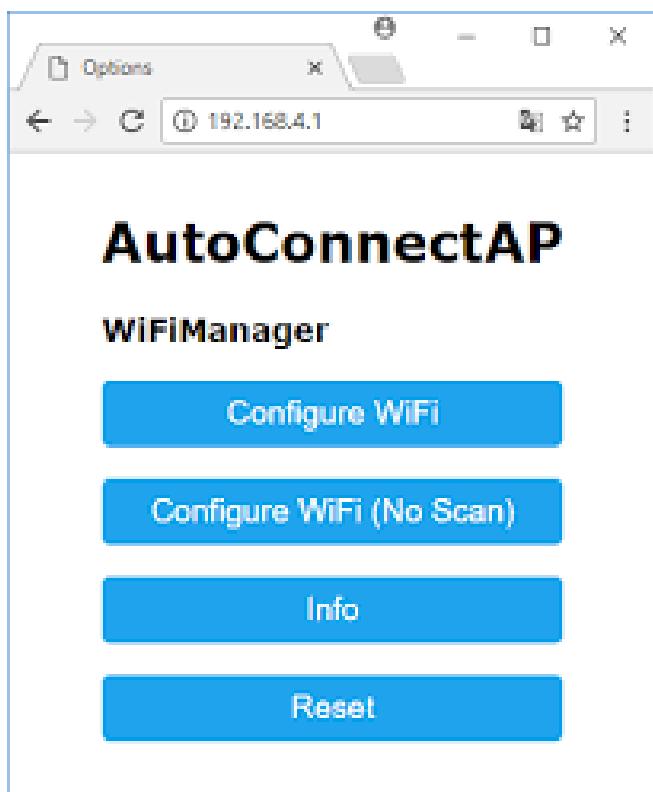
# **ADDING WIFI SSID , PASSWORD AND CONNECTING APP TO FIREBASE REALTIME DATABASE**

```
/* 3. Define the RTDB URL */
#define DATABASE_URL "https://esp32-7d944-default.firebaseio.com"

/* 4. Define the user Email and password that already registered */
#define USER_EMAIL "ni...@gmail.com"
#define USER_PASSWORD "123456"
/* ----- */
```

add your email id and password  
which you make in firebase sign in  
method.

- when switch on and wifi is searching then open wifi and connect to “AutoConnectAP”.
- after connect it automatically open wifi configuration or if not the go to 198.168.4.1.
- select wifi(2.5 ghz) which you want to connect your device after that your wifi is connected and you are ready to dispense medecine.



```
21 // const char* password = "abcd1234";
22
23
24 // Insert Firebase project API Key
25 #define API_KEY "AIzaSyBF-40EwUg3sZNPbZjKMSRZGg2_BSAUfs8"
26
27 // Insert RTDB URL define the RTDB URL */
28 #define DATABASE_URL "esp32-6348b-default-rtdb.firebaseio.com/"
29
30 // Define Firebase Data object
31 FirebaseData fbdo;
32
33 FirebaseAuth auth;
34 FirebaseConfig config;
35
36 // some important initial
37 String sValue;
38 int value;
39
40
41 bool signupOK = false;
42
43
44 void connectWIFI() {
45   Serial.println();
46   Serial.print("Wifi connecting to ");
47   Serial.println(WIFI_SSID);
48
49   WiFi.begin(WIFI_SSID, WIFI_PASSWORD);
```

Ln 25, Col 1 NodeMCU 1.0 (ESP-12E Module) [not connected] 3

32°C  
Haze

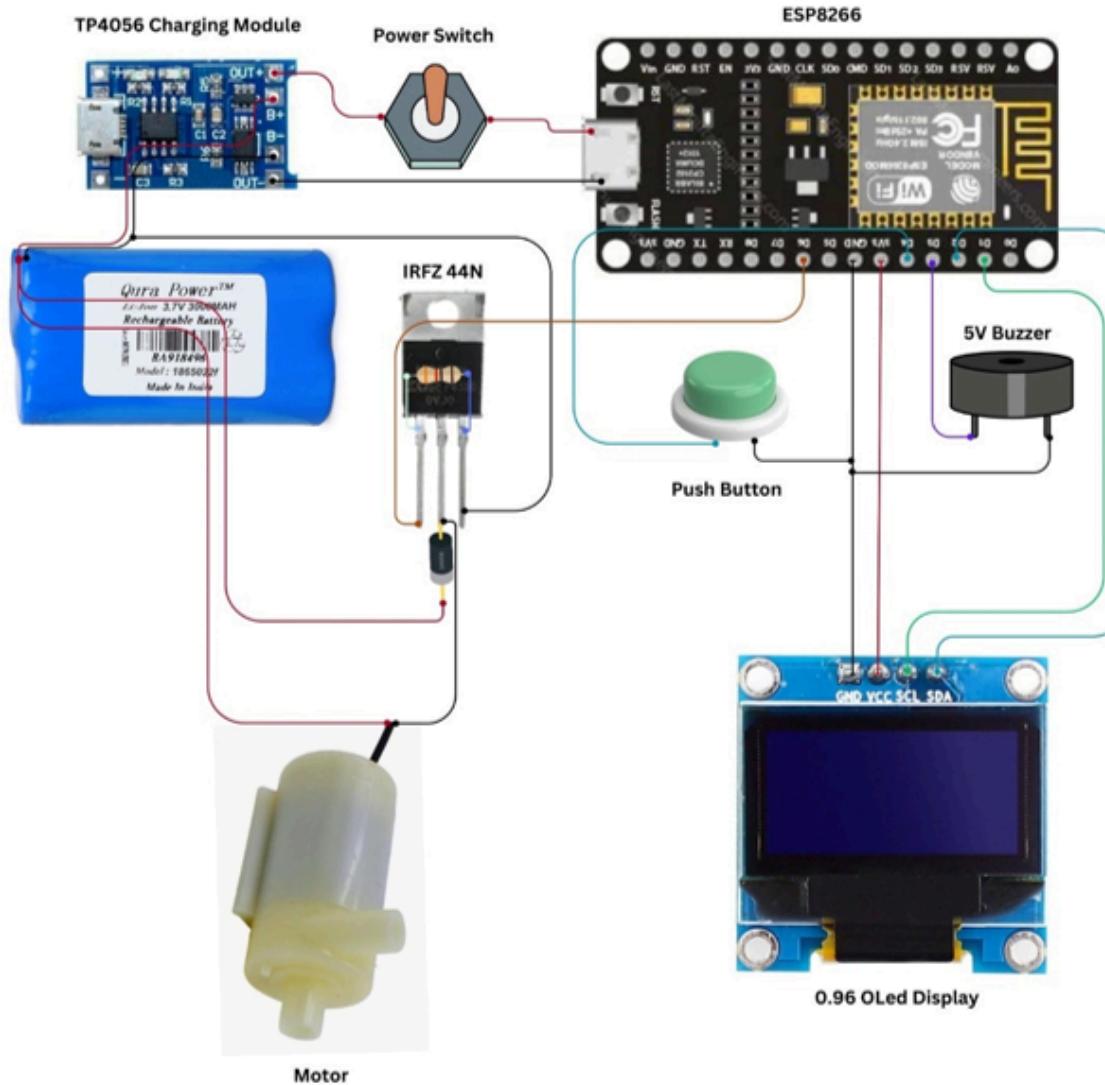


20:03 07-05-2023

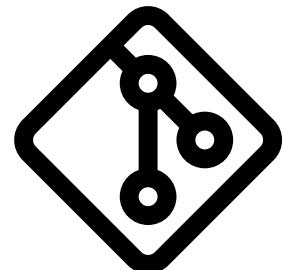
add your web API key and database url here

e.g : <https://esp-default-rtdb.firebaseio.com/>

hit upload and connect device according to  
circuit diagram



# Thank You



[github.com/nishantssonii](https://github.com/nishantssonii)