Remote IoT Control

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1. OBJECTIVE

To control devices using IoT

2. REQUIREMENTS

- Computer.
- Arduino Circuit
- Data transfer cable

3. STEP BY STEP

- 1. Connect a device and assign functions.
- 1.1. Open the website https://iot-control-convex.vercel.app/ and click "Create an account". (fig.1).



Fig. 1. Connection website

1.2. Create your username and password. Then click "Start". (fig.2).

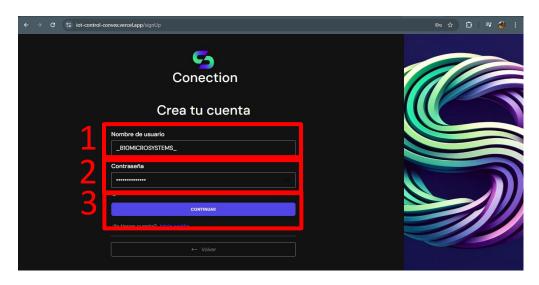


Fig. 2. Create an account in the Connection website

1.3. Assign a name and a description of the device to it. (fig. 3).



Fig. 3. Join a device to the Connection website

1.4. Add a new device (fig.4) and accredit it with a name, that tells you which device you are working with, and a description, which specifies the work of it. (fig.5). Make sure your device is kicking in as Admin, if it is not click on "usuario" and change it.



Fig. 4. Create a device



Fig. 5. Assing a name to the device

1.5. Click "Add new function" (fig. 6). Give it a name and a description. (fig. 7). Funciones del dispositivo

Oprime el botón para crear una nueva función de tu dispositivo



Fig. 6. Create a new function

Funciones del dispositivo

Oprime el botón para crear una nueva función de tu dispositivo

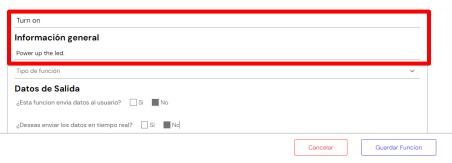


Fig. 7. Assing function description

1.6. In "Tipo de función" select "Por comandos". (fig.8). Then set the run command according to the code and choose whether it will be a numeric or text command. Finally, save the function. (fig.9). Establish more tasks if it is required.

Funciones del dispositivo

Oprime el botón para crear una nueva función de tu dispositivo



Fig. 8. Assing function parameters

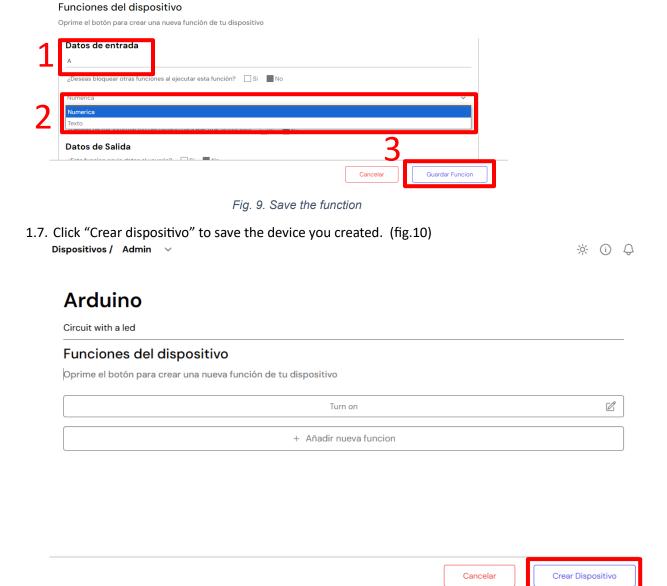


Fig. 10. Save the circuit

1.8. With the Data transfer cable connect the circuit (fig. 11) and upload the serial code. (fig. 12)

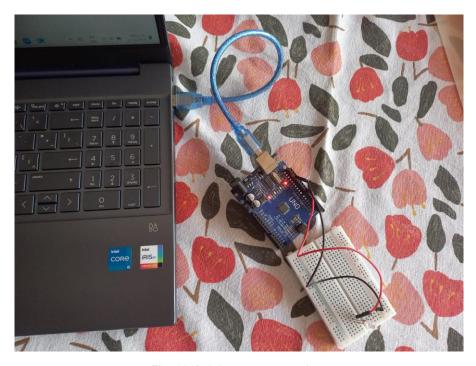


Fig. 11. Arduino connects to the computer.

Fig. 12. Arduino software.

1.9. click on "Conectar" and select the serial port (USB) where your circuit is connected. (fig. 13)

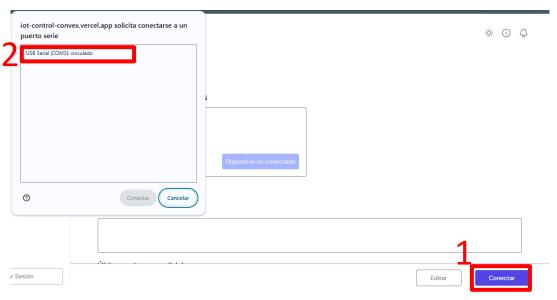


Fig. 13. Serial ports

1.10. If you want to carry out the function, choose the button "Ejecutar localmente" and ensure that it is working looking what appears in the command console. (fig.14) Dispositivos / Admin



Fig. 14. Local taste of the circuit

- 2. Operate the circuit from another device.
 - 2.1. In the device where you have connected the circuit stand in Members space and click in "Añadir nuevo integrante". (fig. 15)

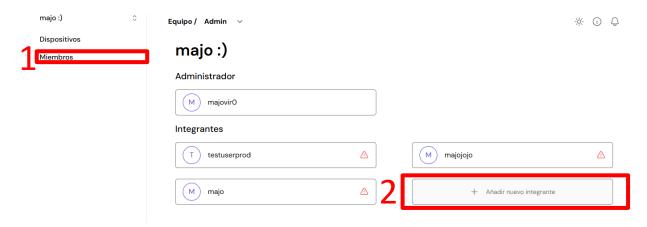


Fig. 15. Connect with another user

2.2. Then write the username of the other person and send the invitation. (fig. 16)

Busca a nuevos miembros por nombre de usuario



Fig. 16. Send an invitation to another user

2.3. Now, in the other device, login the account to which the invitation was sent and click in the bell icon in the top corner (fig. 17). There will appear a message with the invitation, accept it pressing the green button (fig. 18). Make sure your device is kicking in as Usuario, if it is not click in "Admin" and change it.



Fig. 17. Receive a notification



Fig. 18. Accept an invitation

2.4. Tap the device name and substitute it to the device you want to control. (fig.19) In this way it will appear all the circuits connect in the other device. (fig.20)

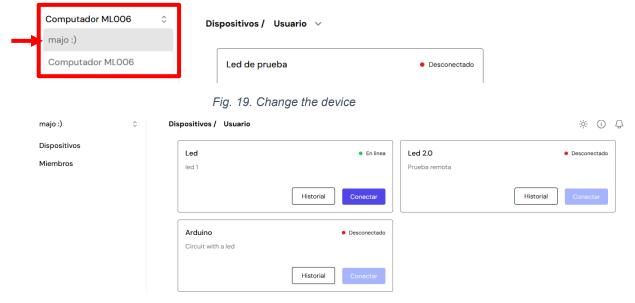


Fig. 20. Possible circuits

2.5. Press in "Conectar" (fig. 21) and "Ejecutar" to interact with the device functions at a distance. (fig. 22)



Fig. 21. Connect to a distance circuit

o conectado, verificado hace 6 minutos

Led

led 1

Funciones del dispositivo



Fig. 22. Carry out different functions at the distance