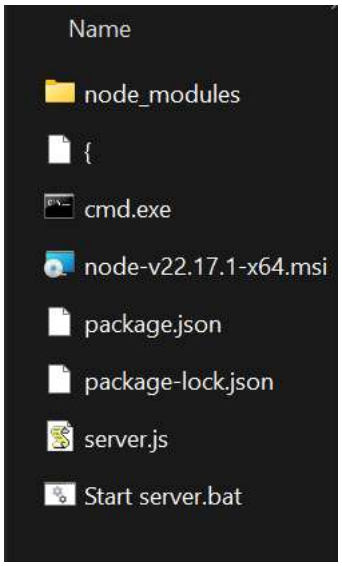
Local Server Setup for soifdesign (ESP8266)

1. Starting the Local Server

To set up a local server, run the `Start server.bat` file located in:

`ESP8266_json\Server\Start server.bat`



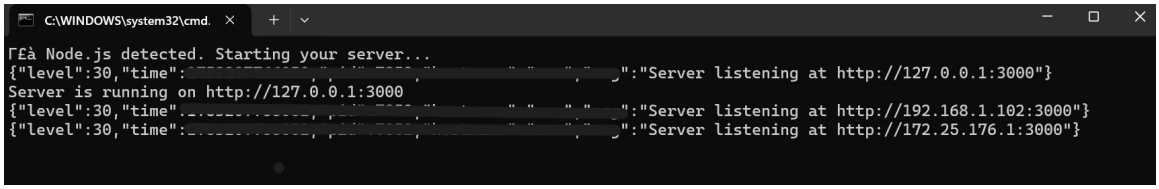
If Node.js is already installed on your system, a lightweight local server will be launched specifically for SwiffDesign. Otherwise, you'll be redirected to the Node.js installer. You can either proceed with installation from there or manually download the latest version from the Node.js website.

2. Server Launch and Access Information

After executing `Start server.bat`, the server will start and display the communication address in the initial lines, for example:

```

listening at http://192.168.1.102:3000
```




```

This is your local server URL for both sending and receiving data:

**http://192.168.1.102:3000**

Visiting this address in your browser will show something like:

```

{"message":"Welcome to the Fastify server!"}

```

This is the root path of the server. We won't be using this default endpoint for operations.

### 🔁 Working with Custom Subpaths

You'll be creating and using subpaths under the main server address. For example, if you choose a button for data submission, assign it a custom endpoint like:

- `http://192.168.1.102:3000/user1`

Here, `user1` is a custom path name. You can create multiple subpaths as needed:

- `http://192.168.1.102:3000/user1`
```

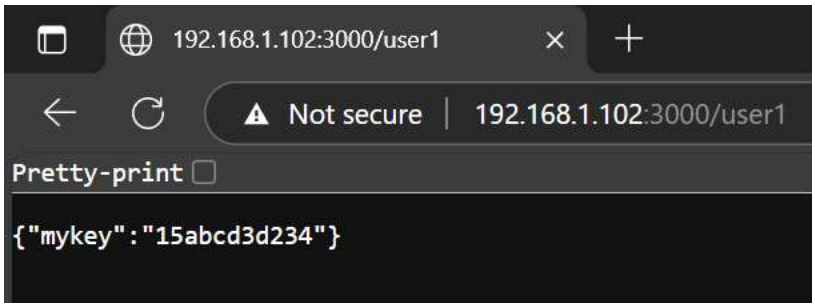
- `http://192.168.1.102:3000/user2`

- `http://192.168.1.102:3000/abcd`

Each path will display a data structure similar to:

```

{"mykey":"15abcd3d243"}




```

- **Server URL:** `http://192.168.1.102:3000/user1`

- **Value (or Text):** `15abcd3d243`

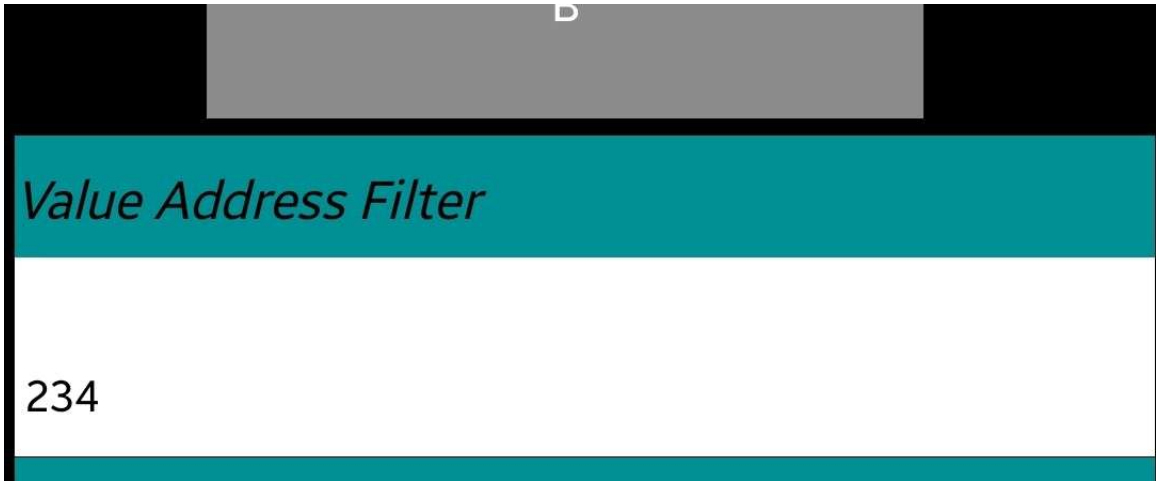
- **Key Name:** `mykey`

These values are defined inside SoifDesign.

📥 Data Retrieval and Filtering

For retrieving data, configure the corresponding button to request values using the URL and key name.

The **address filter** allows trimming the ending segment of a received value, enabling endpoint separation. Filter values range from 100 to 999.



Example:

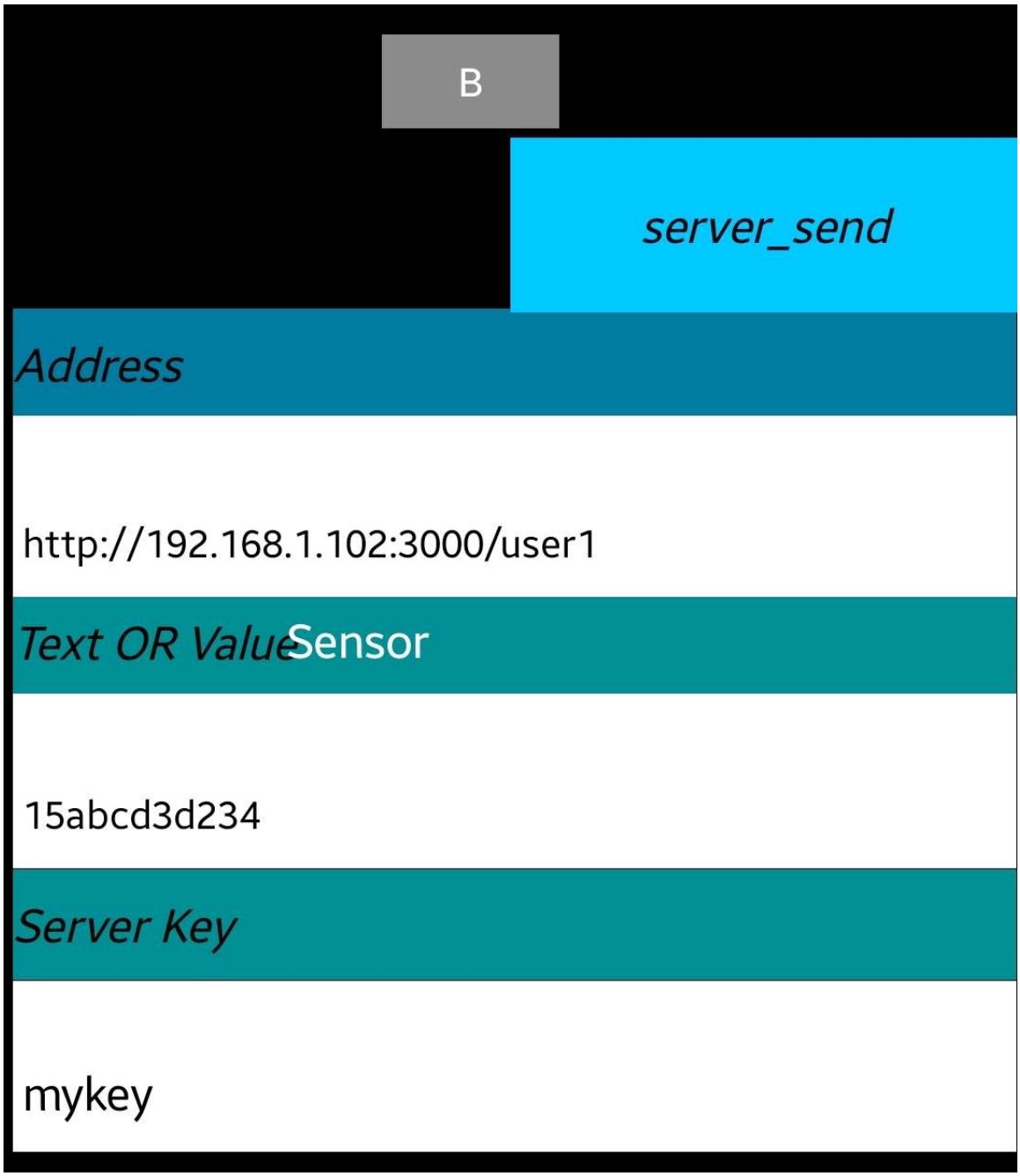
- Sent value: `15abcd3d243`

- Address filter: `243`

- Resulting value after filter: `15abcd3d`

This allows up to **800 distinct endpoints** using a single key pattern.

send:

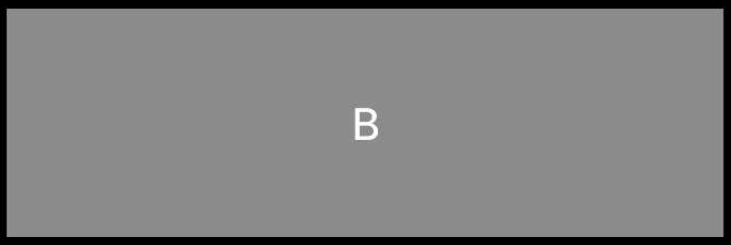

B
server_send
Address
http://192.168.1.102:3000/user1
Text OR Value
Sensor
15abcd3d234
Server Key
mykey

receive:

recive_server_text

Server Address

http://192.168.1.102:3000/user1



Value Address Filter

234

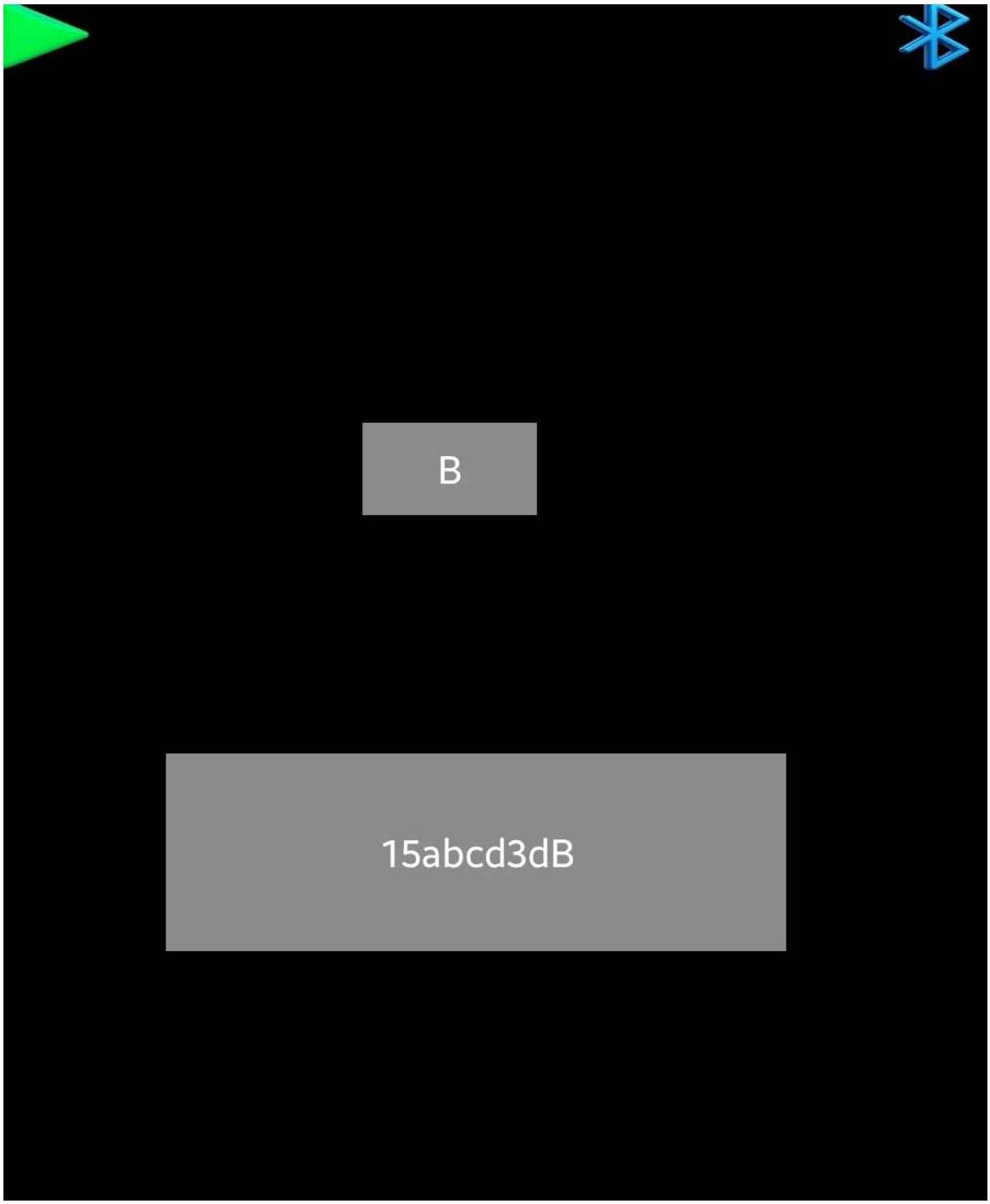
Server Key

mykey

Start Word for Value

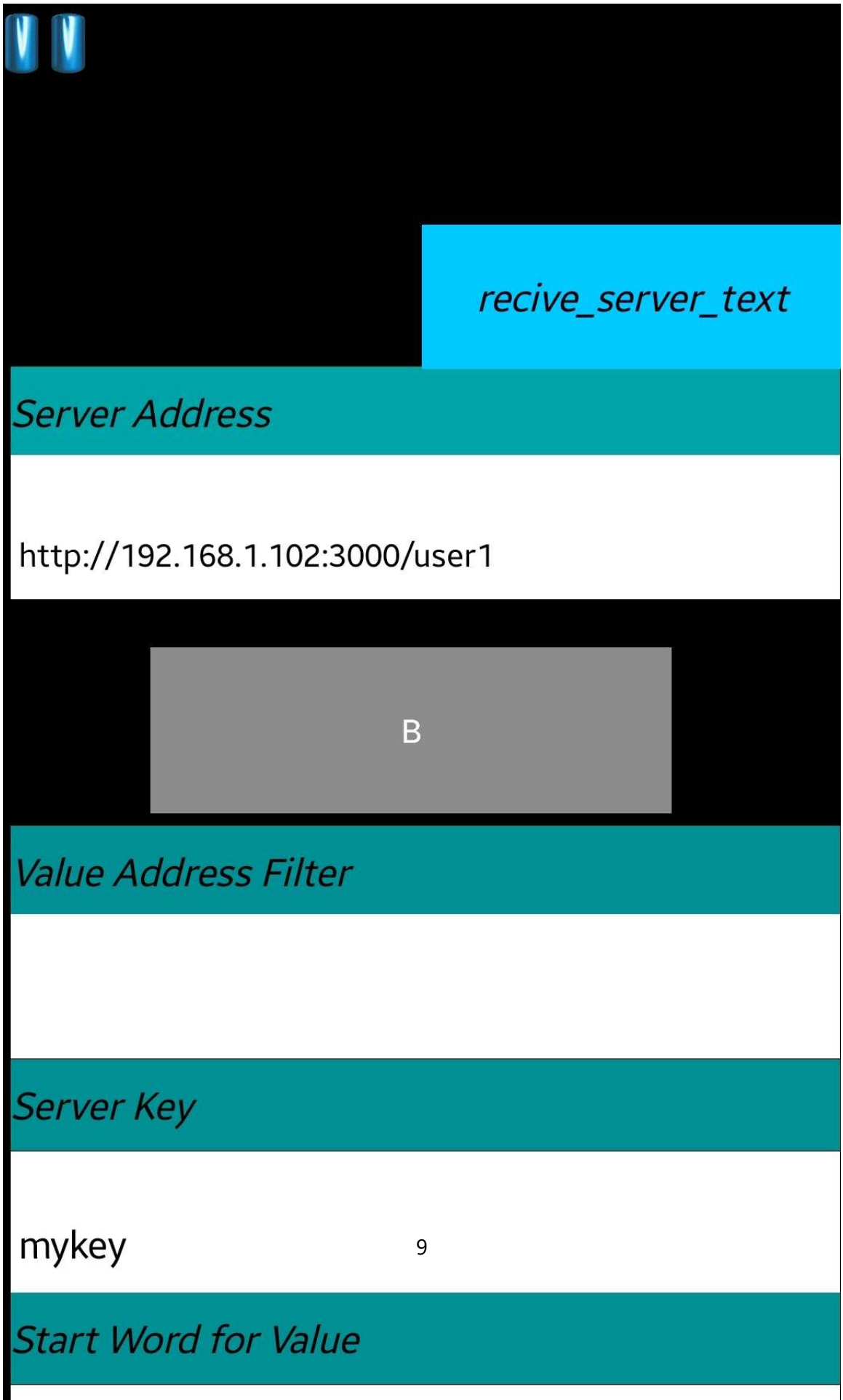
End Word for Value

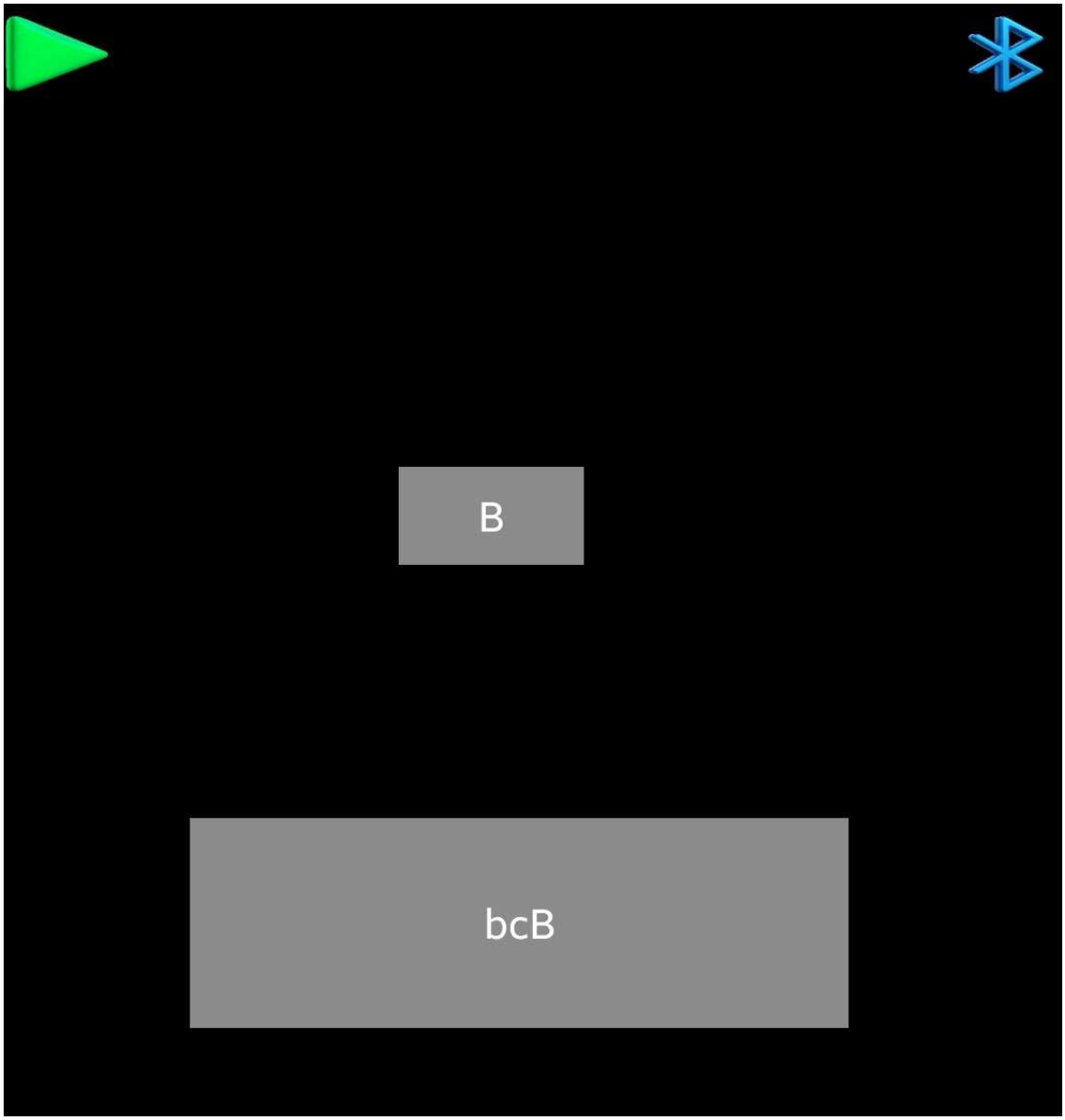
play:



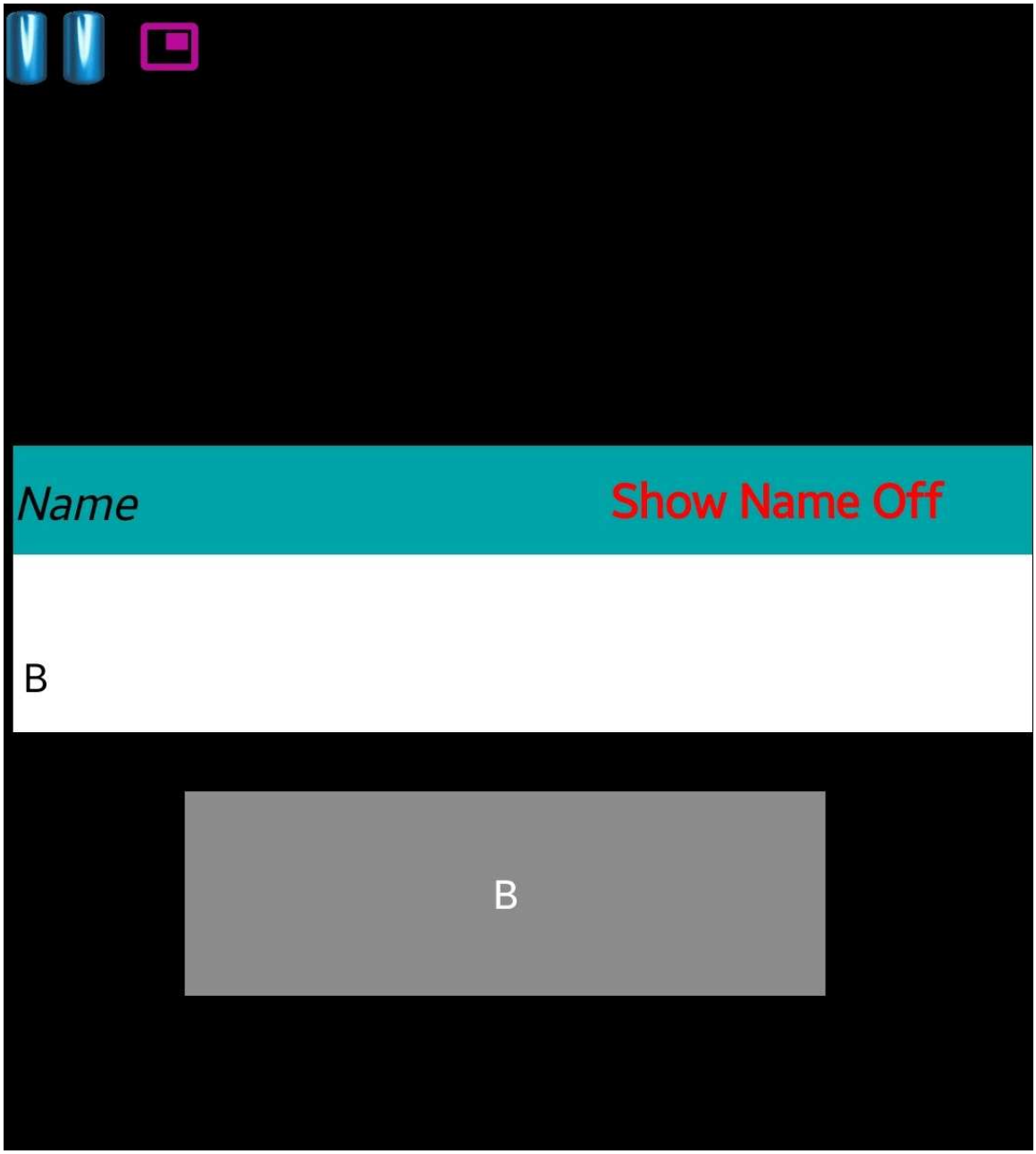
"If you want to show a specific part when receiving data, you can use the 'Receive Filter' keyword. Just specify the starting and ending letters, and only words between those letters will

be displayed."


recive_server_text
Server Address
http://192.168.1.102:3000/user1
B
Value Address Filter
Server Key
mykey
Start Word for Value



You can also hide the button name from being displayed.


Name
Show Name Off
B
B

B
bc