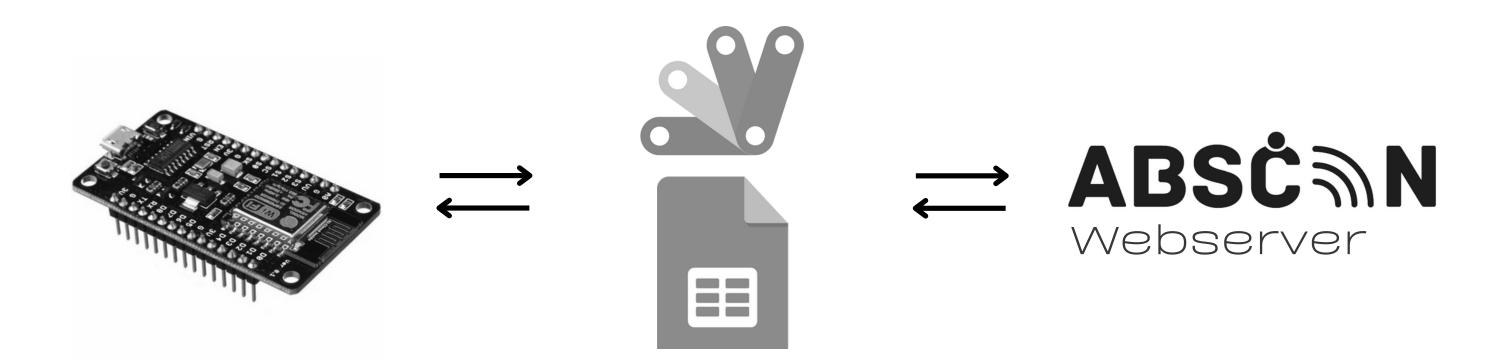
ABSCAN

An independent learning project

What is ABSCAN?

ABSCAN is a remotely monitored RFID-based attendance system for various purposes. Created with the integration of NodeMCU v3, Google Apps Script and an independent webserver to utilize its functionalities.

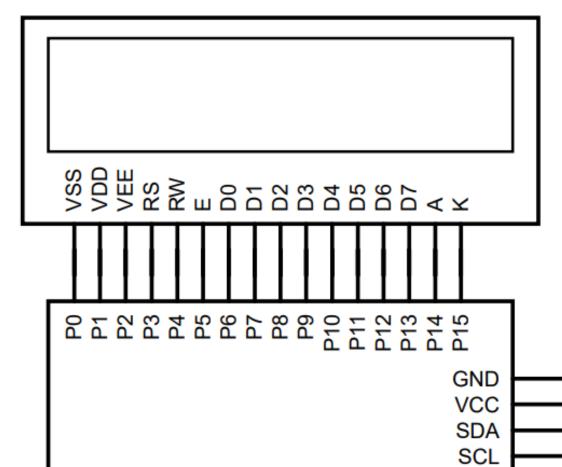


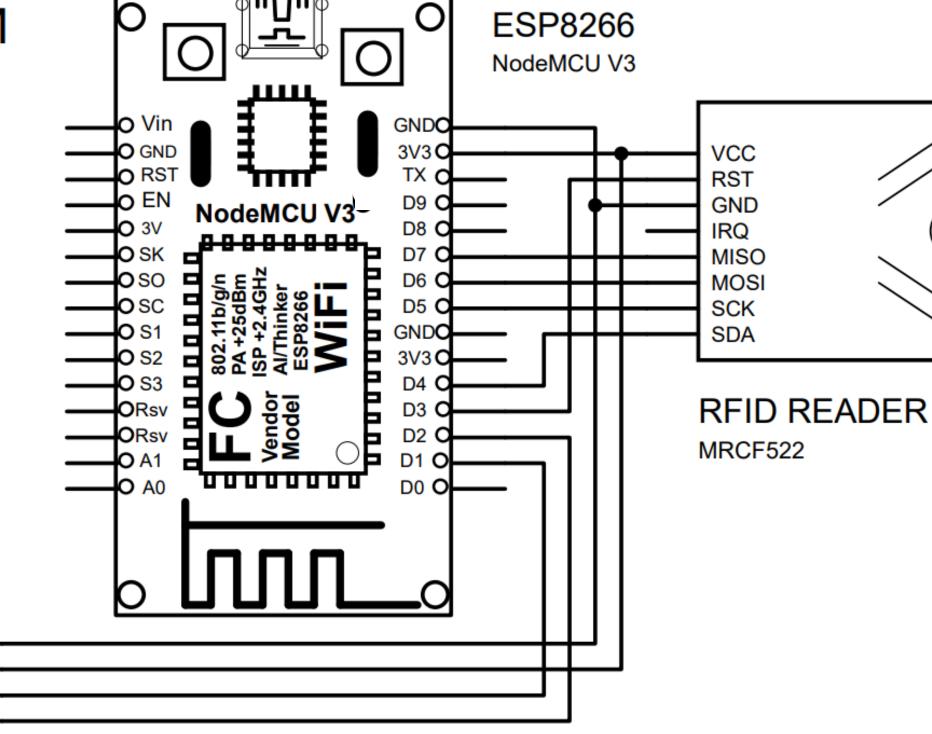
Code & Authors

- https://github.com/javendzk/Abscan-Iot-Project
- https://bit.ly/abscan-git-repo (alternative)
- https://github.com/javendzk
- https://github.com/lilznug
- https://github.com/dhafinhs

REMOTE RFID-BASED ATTENDANCE SYSTEM

By Javana Muhammad Dzaki Dhafin Hamizan Setiawan Nugroho Ulil Abshar

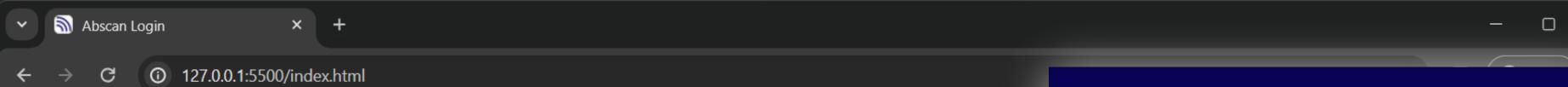




LCD 16 x 2

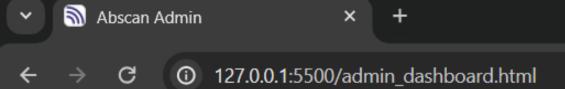
I2C Interfaced

Qty	Item		Price
1	NodeMCU v3 ESP8266	Rp	28,500
1	MFRC522 RFID Reader & Cards	Rp	13,000
1	I2C Interfaced 16x2 LCD	Rp	23,000
1	Breadboard / PCB Dot Matrix	Rp	5,000
-	Wires & Solder	Rp	2,000
		Rp	71,500



Login Page





Admin Dashboard

ABSĊ N

Dashboard

Manage

Log Out

Tanggal Mon Jan 22 2024 Waktu 4:08:15 PM

Status Absen: Dibuka

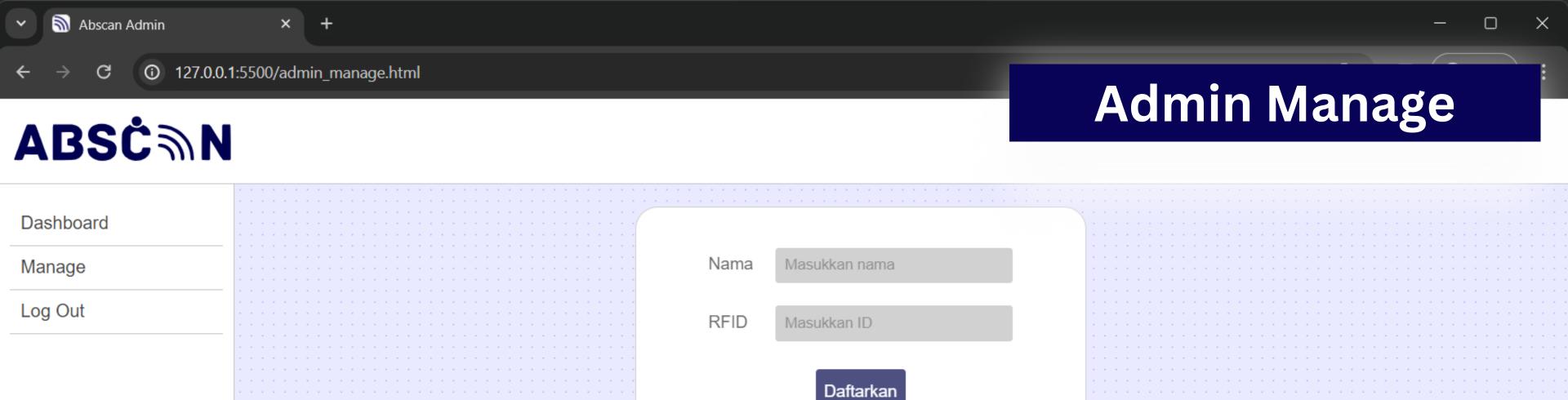
Toggle Absen

Clear Absen

Export to .XLSX

X

No	Tanggal	Jam	Nama
1	11/13/2023	07:49:55	Javana Muhammad Dzaki
2	11/13/2023	07:50:44	Nugroho Ulil Abshar
3	11/13/2023	07:57:09	Dhafin Hamizan Setiawan



Dashboard Features

ABSĊ N

Dashboard

Manage

Log Out

Table fetches
registered session
amount every 2
seconds. If amount
changes, the table
is updated



Tanggal Mon Jan 22 2024 Waktu 4:08:15 PM Status Absen: Dibuka

Presence Toggle

Toggle Absen

Clear Absen

Session Export

Export to .XLSX

Session Reset

No	Tanggal	Jam	Nama
1	11/13/2023	07:49:55	Javana Muhammad Dzaki
2	11/13/2023	07:50:44	Nugroho Ulil Abshar
3	11/13/2023	07:57:09	Dhafin Hamizan Setiawan

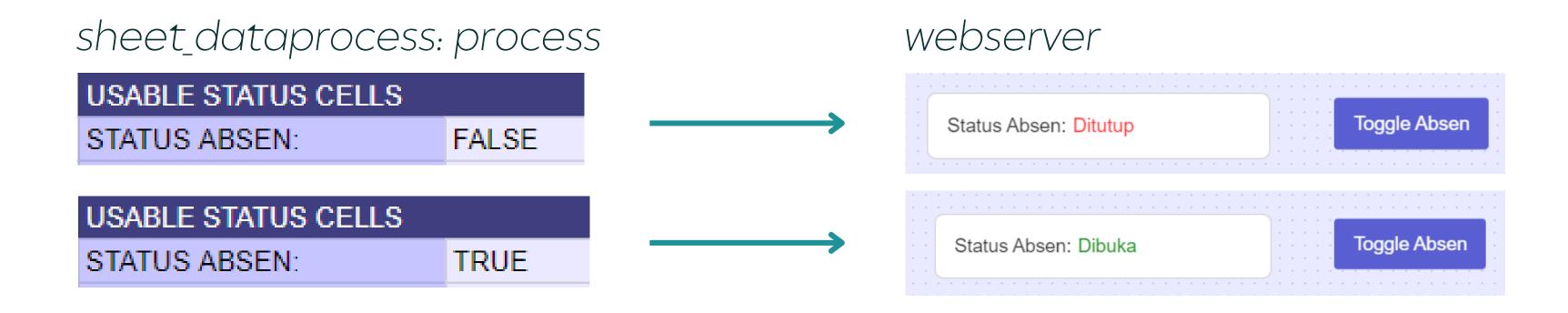


2 seconds after number 4 is registered into the session

No : : : : : : : : : : : : : : : : : : :	Tanggal	Jam	Nama Nama
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11/13/2023	07:49:55	Javana Muhammad Dzaki
2	11/13/2023	07:50:44	Nugroho Ulil Abshar
3	11/13/2023	07:57:09	Dhafin Hamizan Setiawan
4	11/13/2023	07:59:44	Abscan Example Profile

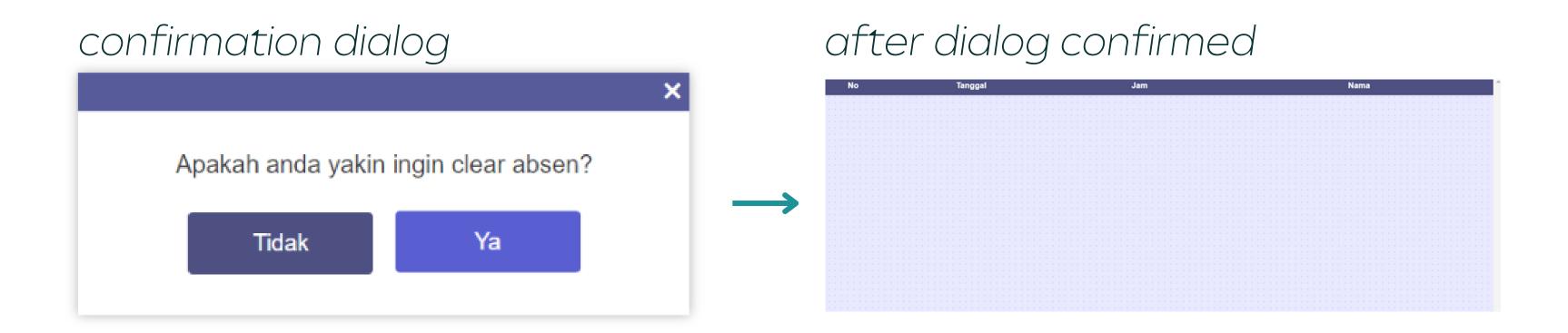
Presence Toggle

On page load, the current session status is immediately fetched with getStatus. The status can be changed with the toggle button, activating postStatus. This status will determine whether presenceHandler will accept or refuse incoming request.



Session Reset

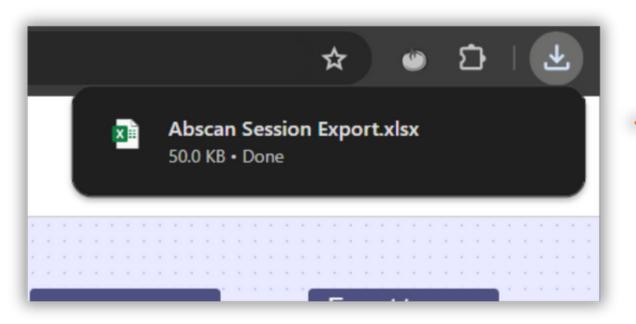
After clicking the "Reset Absen" button, a confirmation dialog will appear. If confirmed, the "doClear" function will be triggered, wiping any registered attendance for the current session.



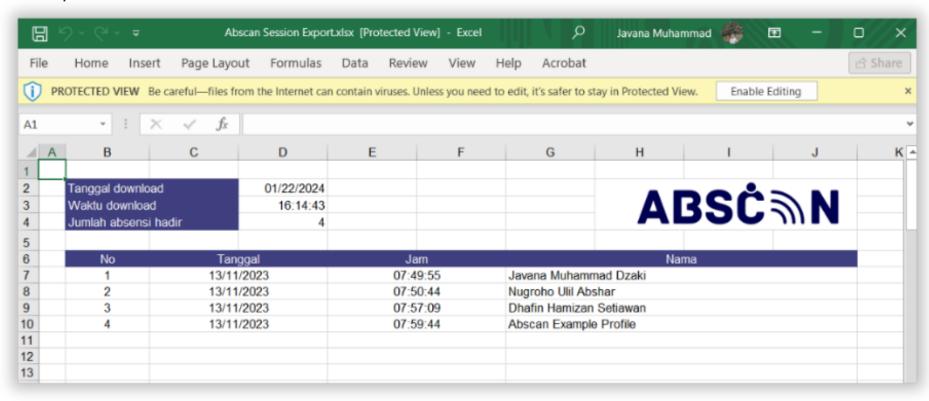
Session Export

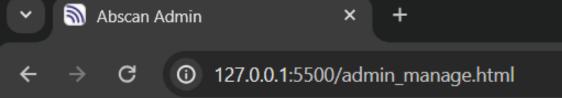
Upon clicking "Export to .xlsx" button, export time, date, and registered user count of the session will be updated in sheet_session. The sheet is then be automatically downloaded in .xlsx format

auto download



exported session in .xlsx





Manage Features

ABSĊ⋒N

Dashboard

Manage

Log Out

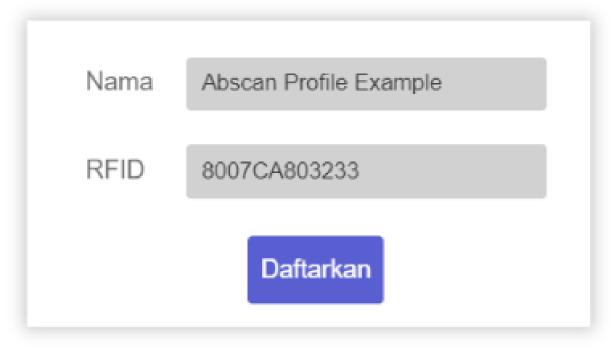
After clicking
'Daftarkan', it will
check the 'Nama' and
RFID inputs. If either
or both of them are
empty, the system
will alert the user to
fill in the form



Post to Database

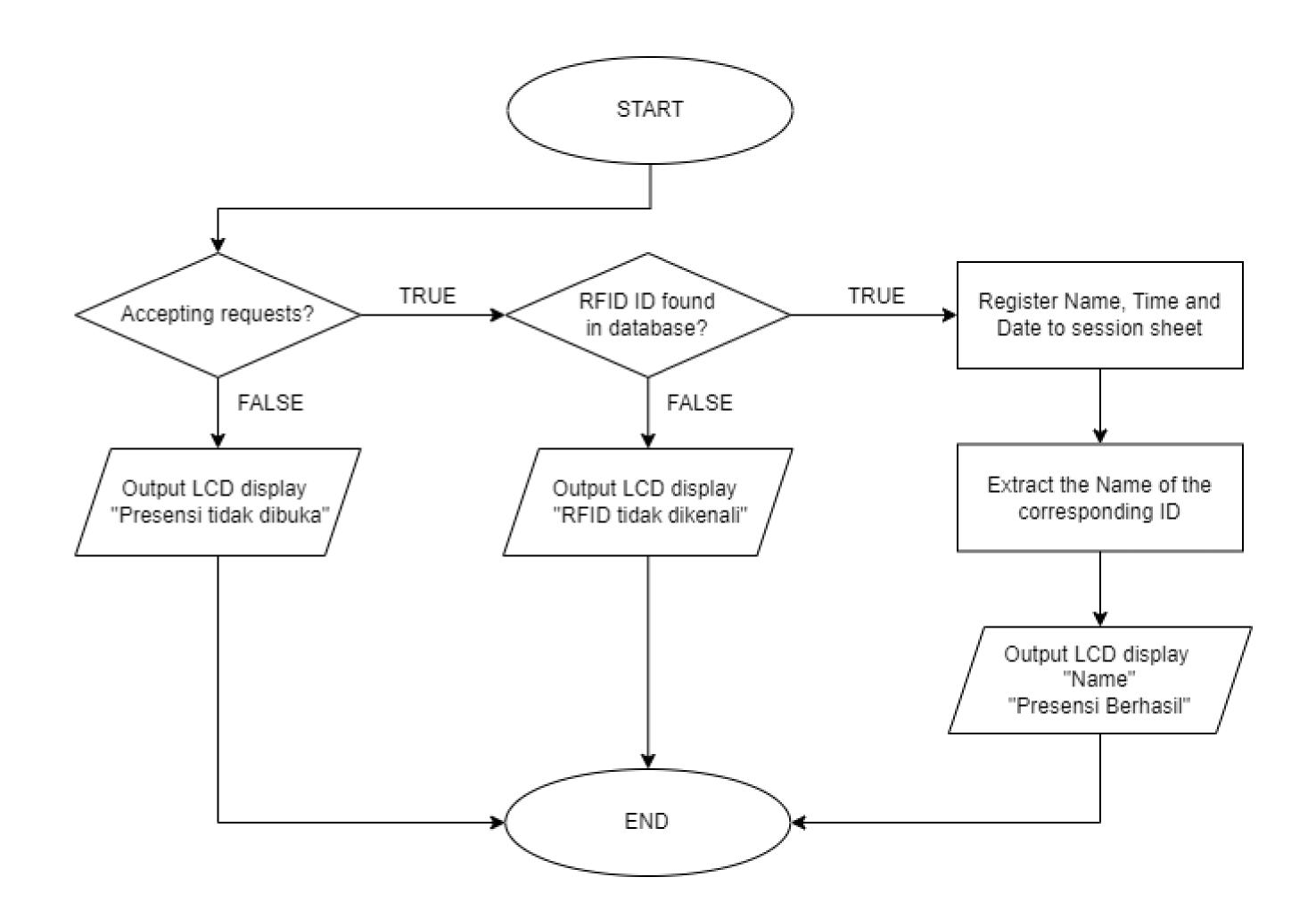
If the form has been filled, Name and RFID ID will be posted to database by postData. After this process, the RFID card can be used. The name of that RFID number will appear at Dashboard and LCD, if detected by the sensor

add new ID form



sheet_dataprocess: database

3	8007 CA803235	Siapa Kan ini Profile
4	9A3F8E2D471B	Nama Keren Banget
5	E65C1D9A0B7F	Javana Muhammad Dzaki
6	2B6F4C1E8A3D	Nugroho Ulil Abshar
7	D0A7B9F5C382	Sampel Contoh Orang
8	7E4D3F8A1C6B	Sebuah Profile Contoh
→ 9	8007CA803233	Abscan Profile Example



Thank You