CAR LICENSE PLATE DETECTION

Using Image Processing

Team

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Hardware

- Raspberry Pi-3B (Processing board)

- Pi-camera

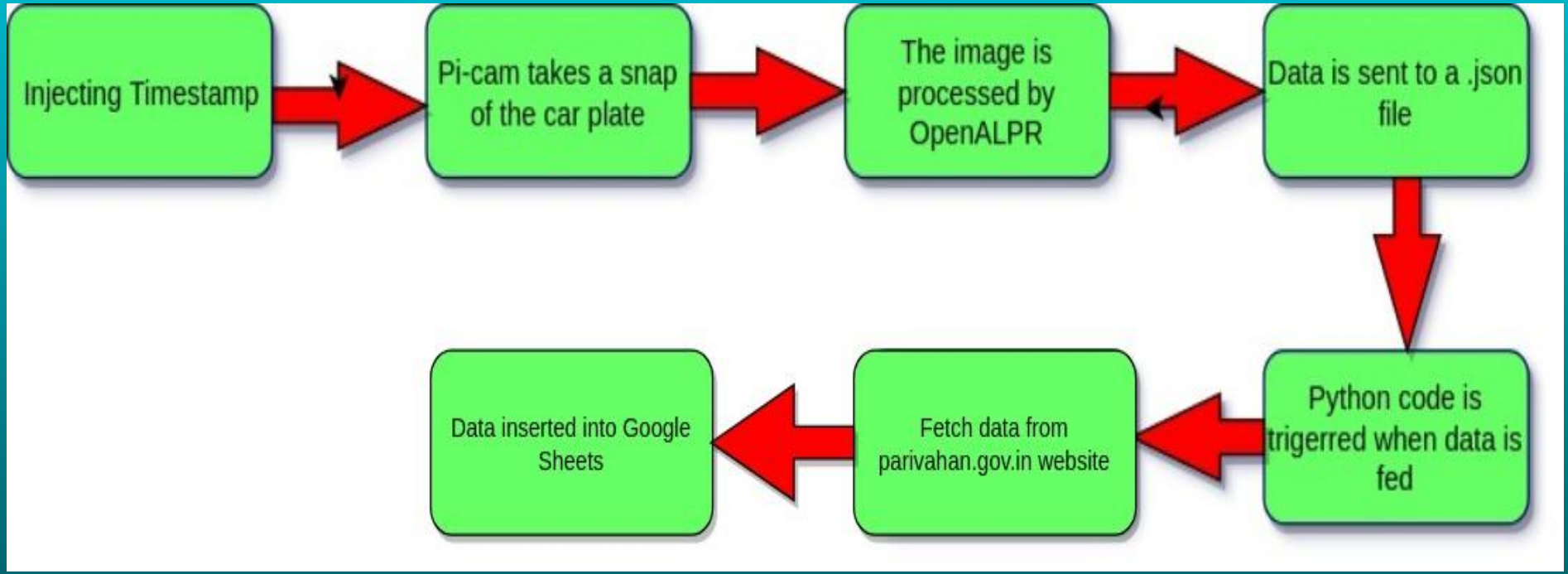
Software tools

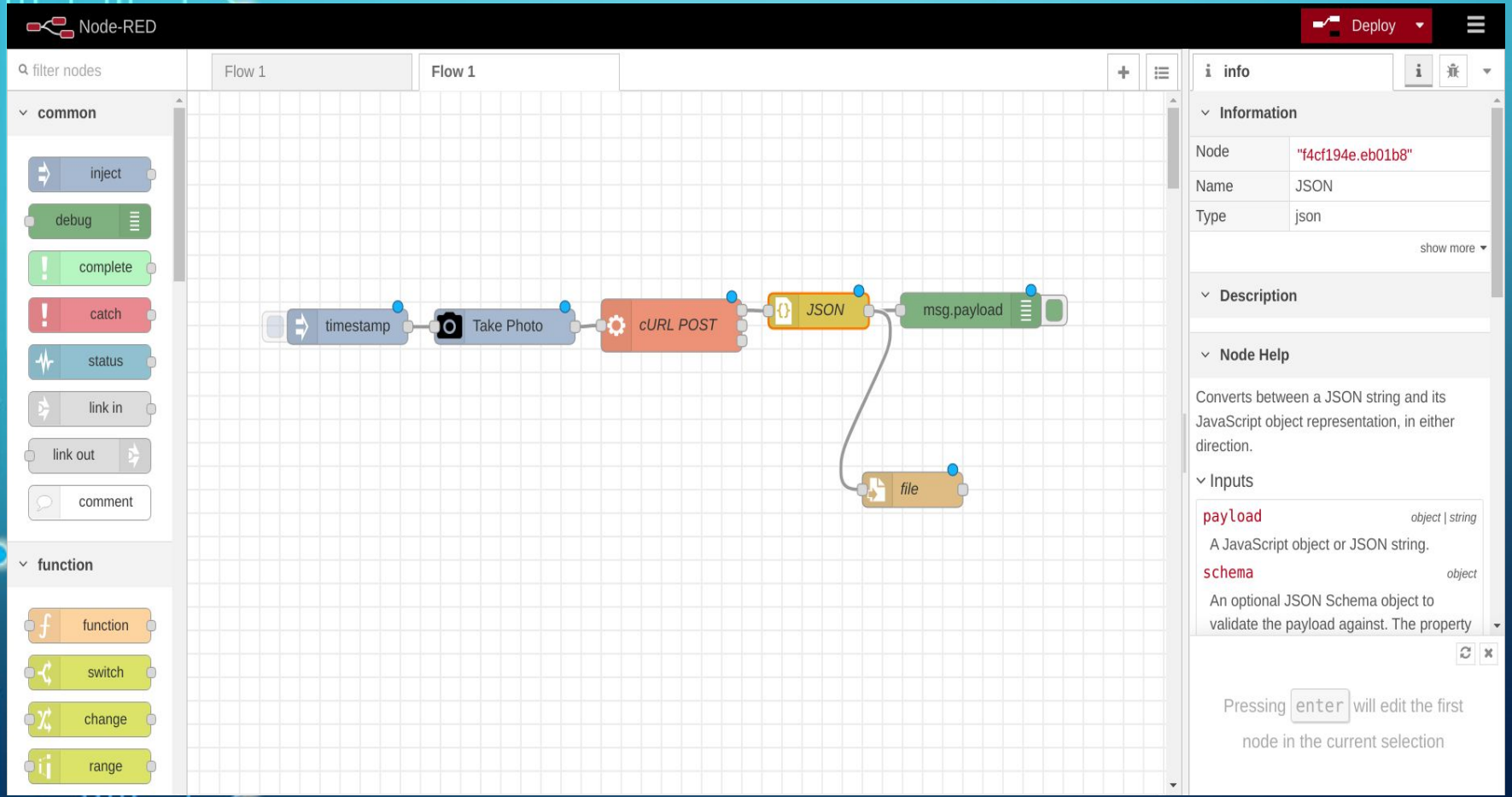
NODE-RED (to configure the flow of the process)

Python 3 (back-end)

OpenALPR (processing tool)

Process


Injecting Timestamp
Pi-cam takes a snap of the car plate
The image is processed by OpenALPR
Data is sent to a .json file
Python code is trigerred when data is fed
Fetch data from parivahan.gov.in website
Data inserted into Google Sheets


Node-RED
Deploy
filter nodes
Flow 1
Flow 1
common
inject
debug
complete
catch
status
link in
link out
comment
function
function
switch
change
range
timestamp
Take Photo
cURL POST
JSON
msg.payload
file
info
Information
Node
"f4cf194e.eb01b8"
Name
JSON
Type
json
show more
Description
Node Help
Converts between a JSON string and its JavaScript object representation, in either direction.
Inputs
payload
object | string
A JavaScript object or JSON string.
schema
object
An optional JSON Schema object to validate the payload against. The property
Pressing enter will edit the first node in the current selection

Video

To watch the working video, please click the link below:

https://drive.google.com/file/d/1JDDyt0JZl_MeYN-aajDgSmRaQ4pY9zfW/view?usp=sharing


THANK YOU