

**DRIVER IDENTIFICATION SYSTEM**

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**Revision Records:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Version** | **Document History** | **Prepared by** | **Reviewed by** | **Approved by** | **Date** |
| 1 | Driver Identification System | Pooja  and  Rutuja |  |  | 3/12/24 |

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# **Driver Identification System-**

“The purpose of the documentation for a **Driver Identification System** is to give a clear and good explanation of the system. It should be easy to understand and provide useful information for testers and developers.”

## **Objective:**

To design and implement Driver Identification System that utilizes facial recognition to authenticate drivers.

The system will:

1. **Face Registration and Management:** Allow for registering and managing driver facial profiles in the database.
2. **Real-time Identification:** Capture and compare live facial images with registered profiles using a connected camera.
3. **Multimodal Feedback:** Provide identification results via:
   * **Visual Feedback:** Display the driver's identification status (success or failure) on a window with text output.
   * **Physical Feedback:** Blink an LED on a Raspberry Pi to indicate identification success or failure (e.g., green for success, red for failure).
   * **Auditory Feedback:** Announce the identification status via a connected Camera, stating whether the driver is identified or not.
4. **Security and Reliability:** Ensure accurate and secure driver identification to prevent unauthorized vehicle use.

# **DIS System Overview:**

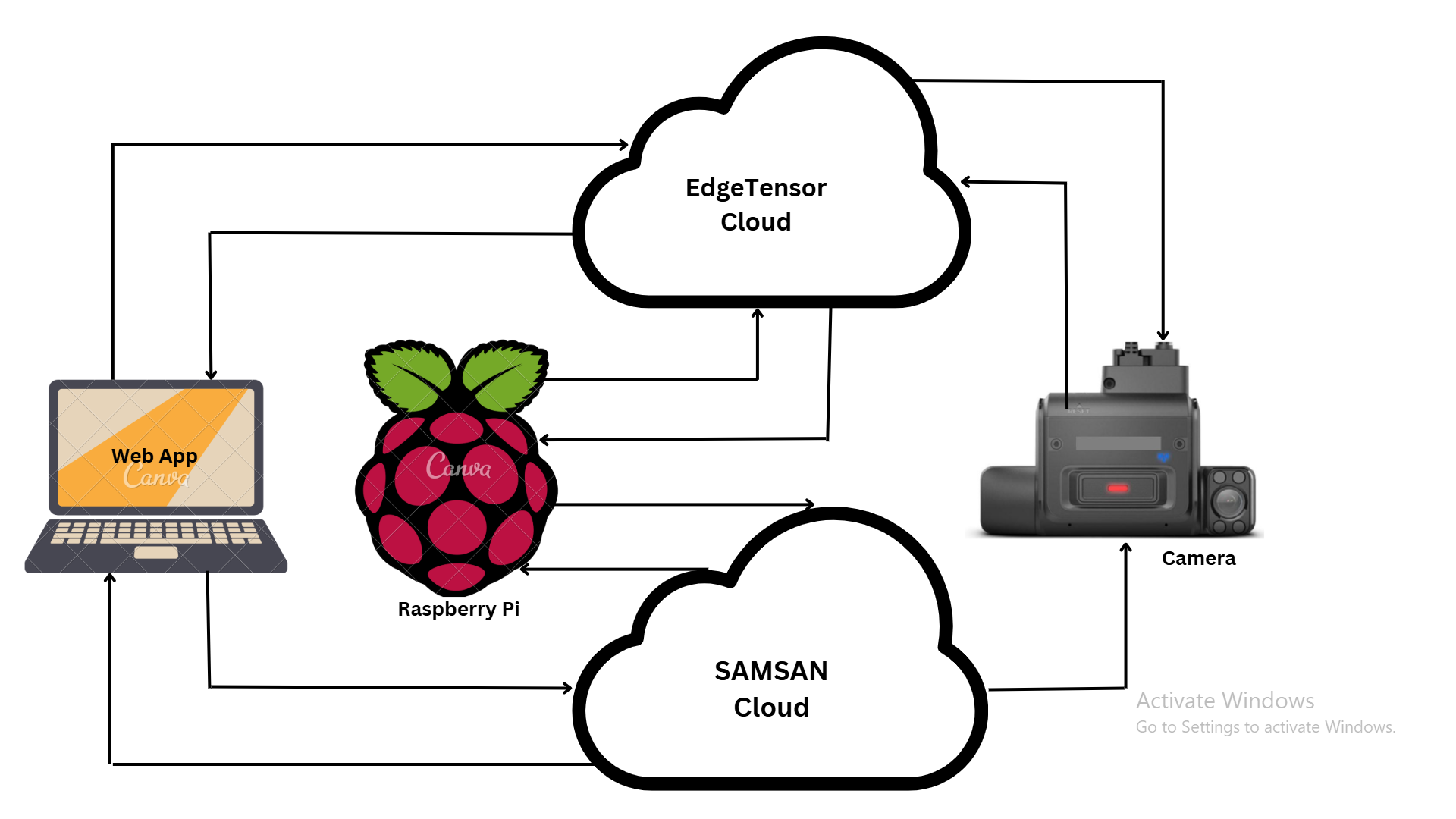
****

Figure 1: System Overview

# **DIS Flow Chart:**

## **Automated Server Flow Chart:**

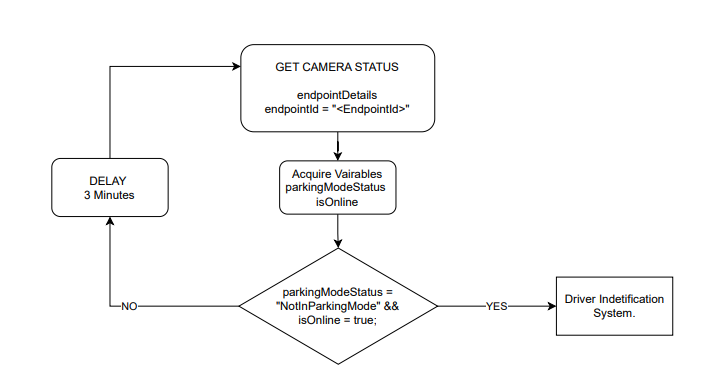
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Figure 2: Automated server flow chart

## **Driver Identification Process Using Camera and FaceSet APIs**

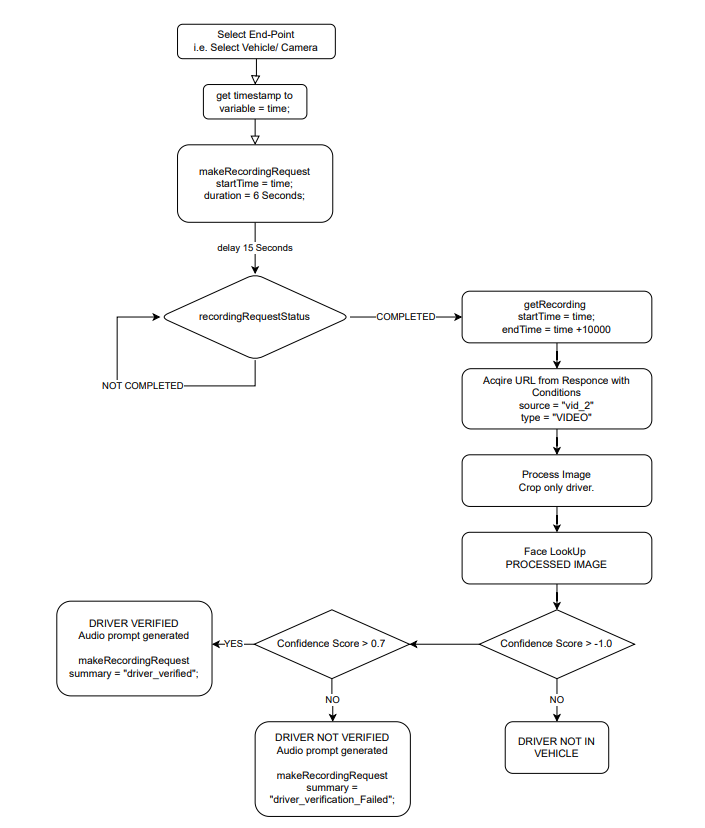


Figure 3: Driver Identification Process using camera and face API flow chart

# **Task List:**

## **Driver Identification :**

1. Video Fetching and Frame Capturing.
2. Driver Image isolation and cropping.
3. Faceset Identification via Faseset API.
4. Result processing and result promts and Blink LED of Rasberry pi audio output.

## **Server :**

1. Generating automated server with triggers for every 3 minutes.
2. Creating GUI for operating the server.
3. Exception Handling Logic.

## **Driver CRUD :**

1. Select Driver List.
2. Driver Registration.
3. Delete Driver.

# **Basic Requirements:**

## **For the set-up of Web App:**

Python version – 3.11.3

Pip Version – 24.0

Github link – https://github.com/nbangar75/Driver\_ID.git

Python Package Installation – pip install -r Driver\_ID-main\Driver\_ID\requirements.txt OR

Python Package Installation - pip install requests== 2.32.3,pip install opencv-python==4.10.0.84,pip install flask==3.1.0,pip install

Run Coments = python demo.py or python faceapi3.py

## **For the set-up of Raspberry Pi:**

## 

**Bookworm image flash on a Raspberry Pi:**

To flash the Bookworm image onto a Raspberry Pi using Etcher, follow these steps:

1. Download the Bookworm Image

1.1)url:” <https://downloads.raspberrypi.com/raspios_armhf/images/raspios_armhf-2024-11-19/2024-11-19-raspios-bookworm-armhf.img.xz>”

1.2)Download the (unzip).img file for the Bookworm release.

2. Prepare the SD Card

2.1)Insert an SD card (at least 8GB recommended) into your computer.

2.2)Make sure the SD card is clean and properly formatted:

2.3)You can format it using SD Formatter if needed.

3. Download and Install Etcher

3.1)If you don’t have Etcher installed, download it from the official website: Etcher Download.

3.2)Install and open Etcher on your computer.

4. Flash the Bookworm Image Using Etcher

4.1)Launch Etcher and you will see three options:

4.2)Flash from file: Click this button to browse for the Bookworm .img file you downloaded.

4.3)Select target: Select the SD card that you have inserted into your computer.

4.4)Flash!: Click this button to begin the flashing process.

4.5)Etcher will verify the image after flashing to ensure there are no errors.

5. Wait for the Flashing Process to Complete

5.1)The flashing process may take a few minutes depending on the size of the image and the speed of your SD card.

5.2)Once completed, Etcher will notify you that the process is done and the SD card is ready to use.

6. Eject the SD Card

6.1)Once the flashing process is finished, safely eject the SD card from your computer.

7. Insert the SD Card into Raspberry Pi

7.1)Insert the SD card into your Raspberry Pi's SD card slot.

**DIS Project Set-up:**

Install git step:1) sudo apt update

2) sudo apt install git

Create folder DIS\_ID : mkdir DIS\_ID

Git clone : git clone <https://github.com/nbangar75/Driver_ID.git>

To install Liabrary:

1)pip install requests

2) pip install RPi.GPIO

3) pip install opencv-python-headless== 4.9.0.80

5) pip install numpy== 1.26.4

To run Manually:

python scriptrelay.py

For Automate Raspberrypi:

* 1. sudo nano /etc/systemd/system/DIS.service
  2. coppy this line in file”

[Service]

Type=simple

User=pi

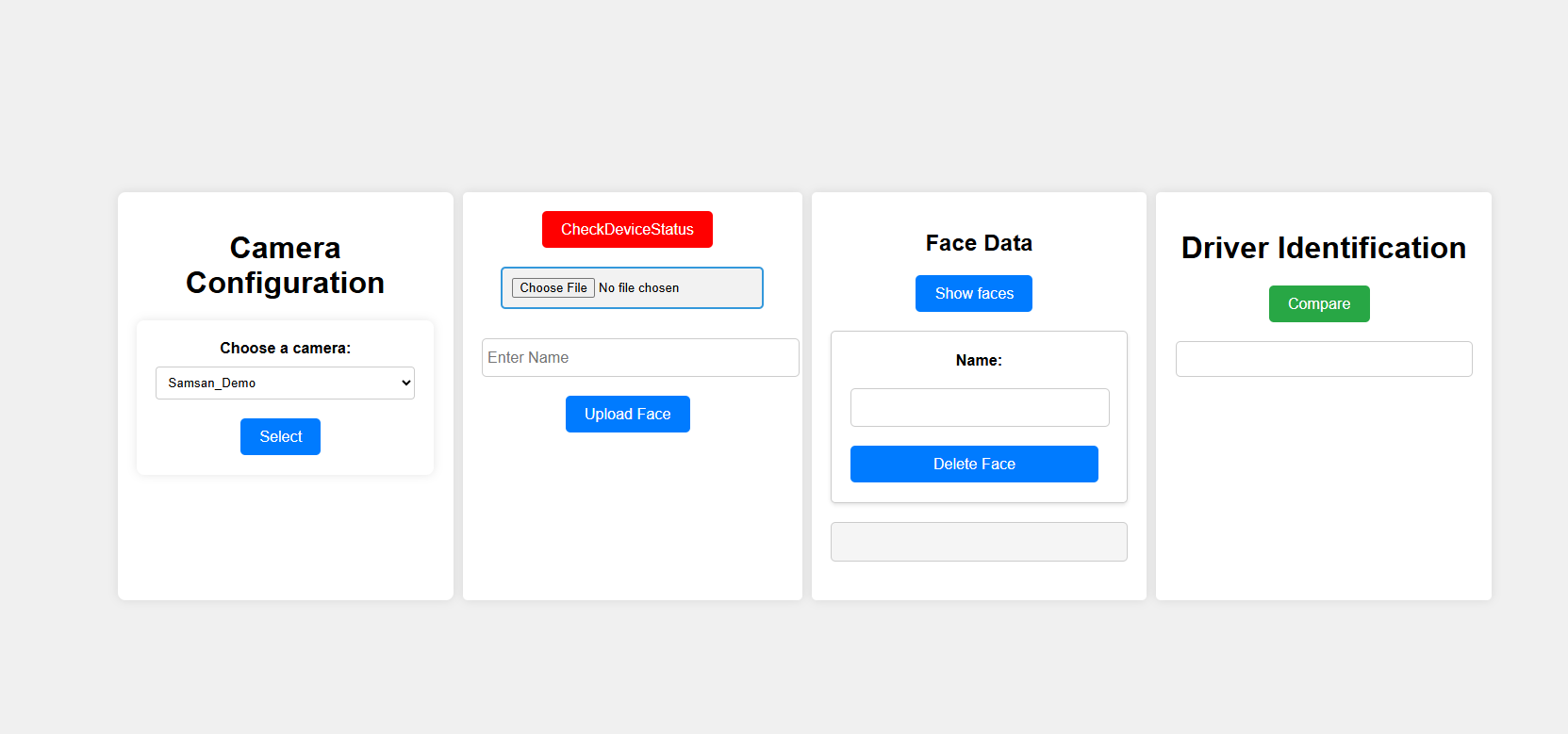
WorkingDirectory=/home/pi/DIS\_ID

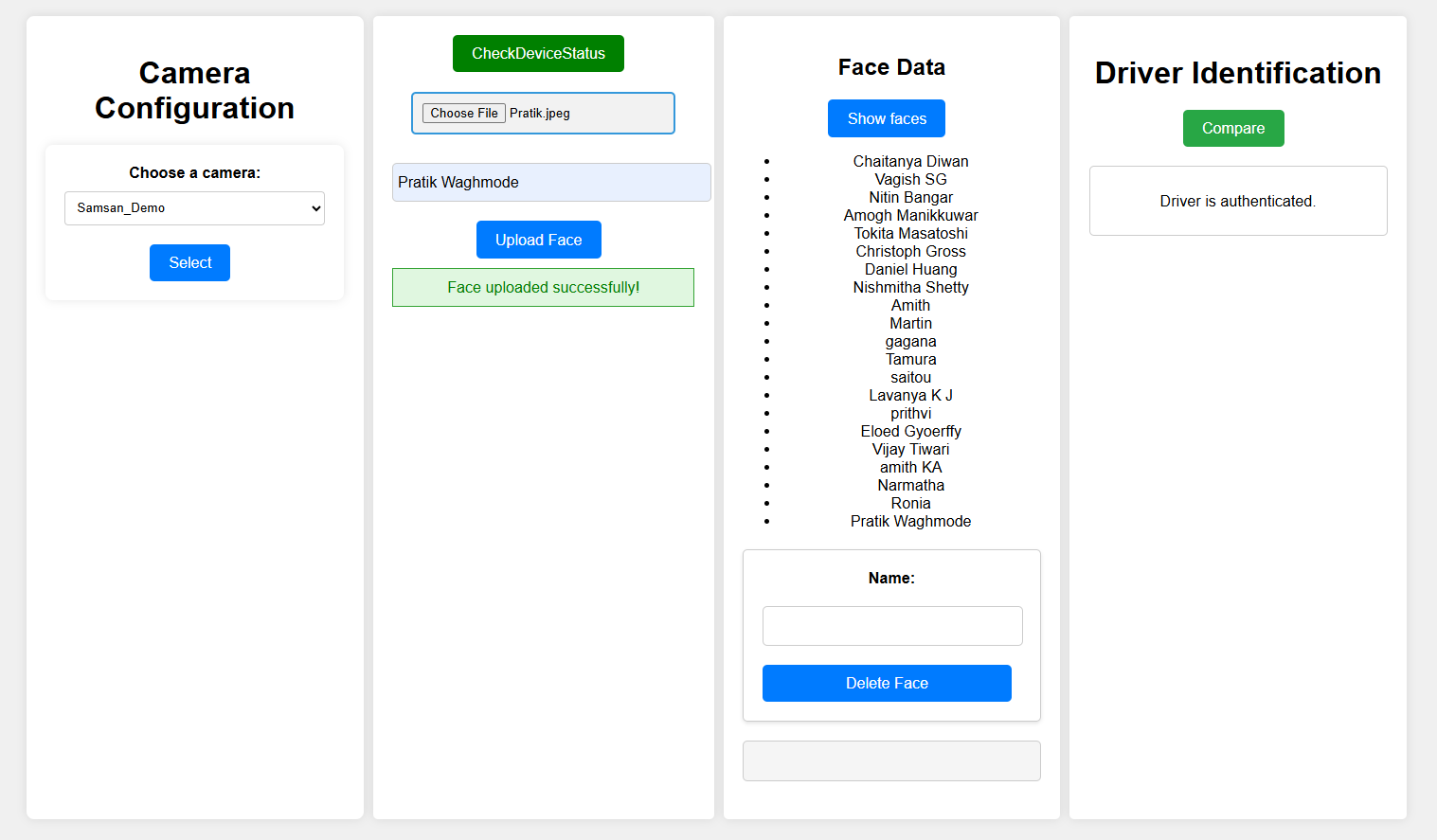
ExecStart=/bin/bash -c 'source /home/pi/DIS\_ID/myenv/bin/activate && python /home/pi/DIS\_ID/scriptrelay.py'

Restart=always”

* 1. sudo systemctl daemon-reload
  2. sudo systemctl restart DIS.service
  3. sudo systemctl status DIS.service
  4. cheak log: journalctl -u DIS.service

# **Screenshot of Web App:**





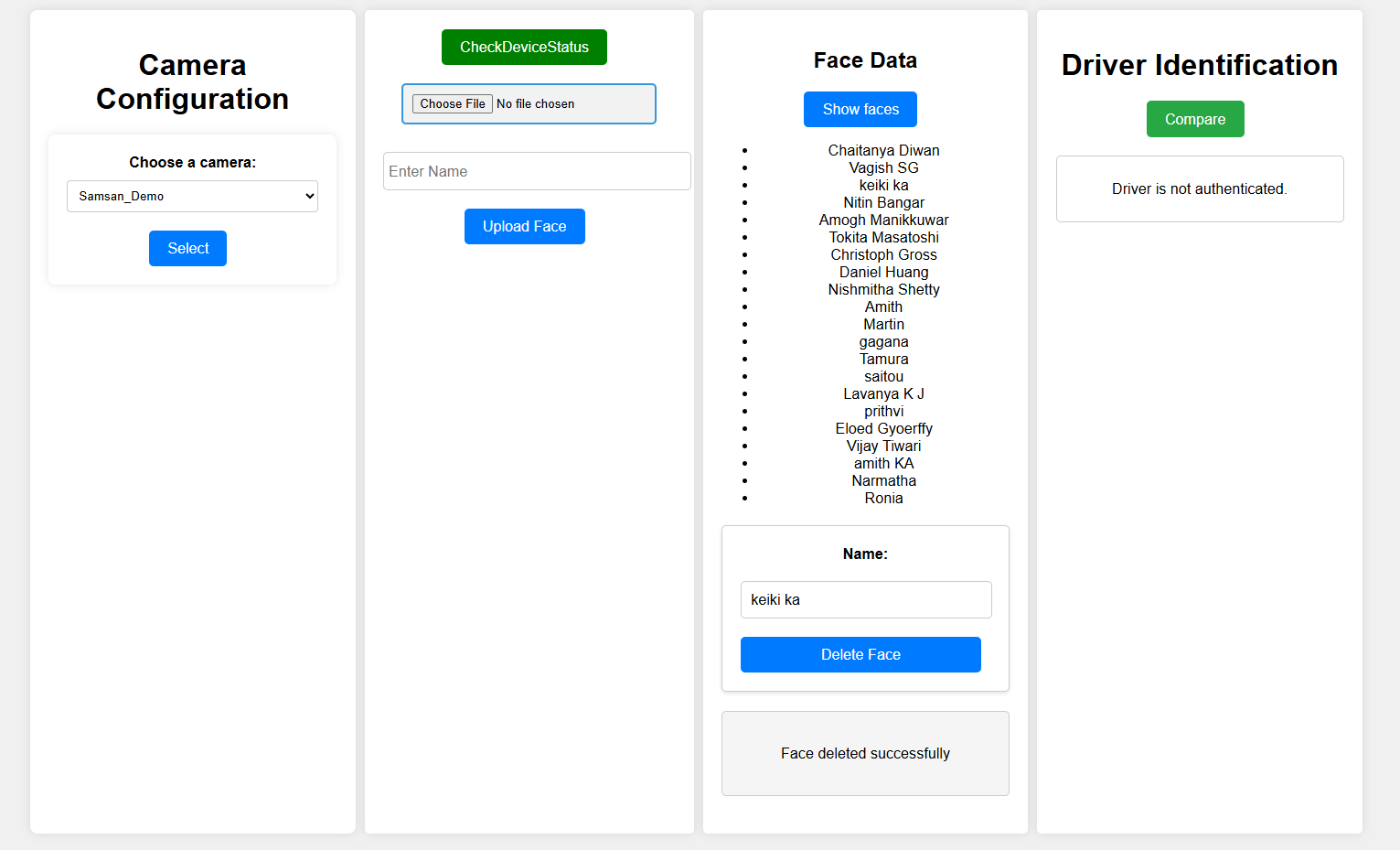
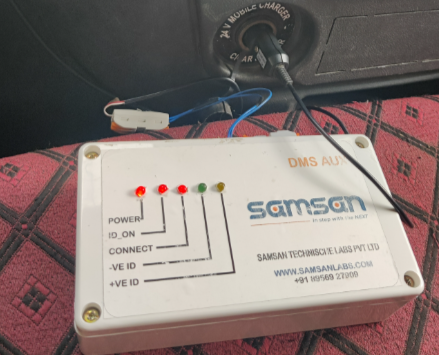
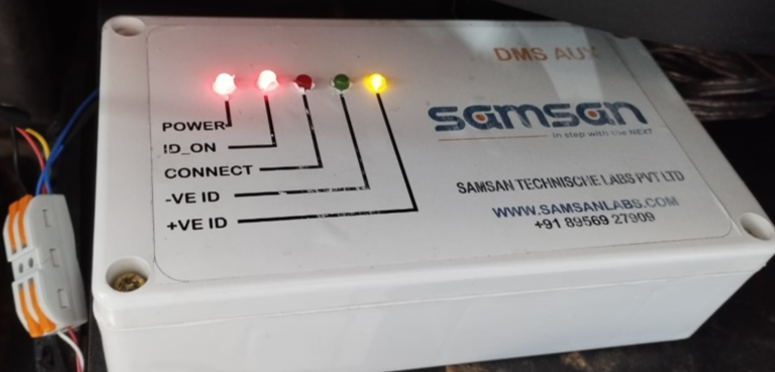


Figure 4 : Driver Identification Process using camera and face API flow chart

# **Result of Raspberry Pi:**





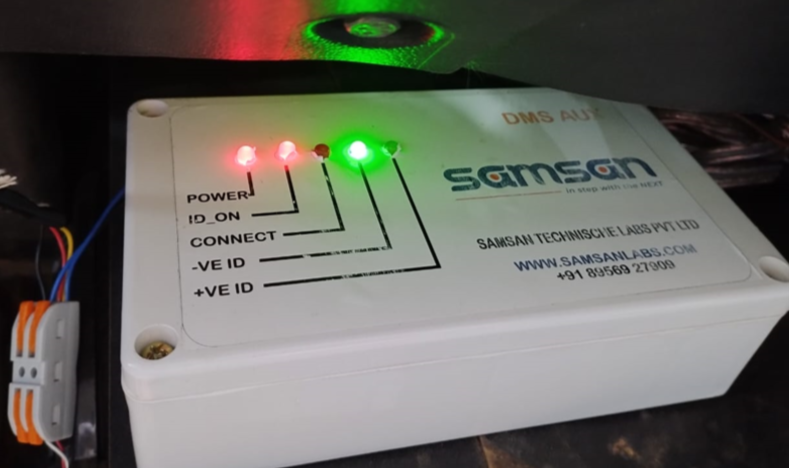


Figure 5 : Result of Raspberry Pi

# **Architecture of Raspberry Pi:**

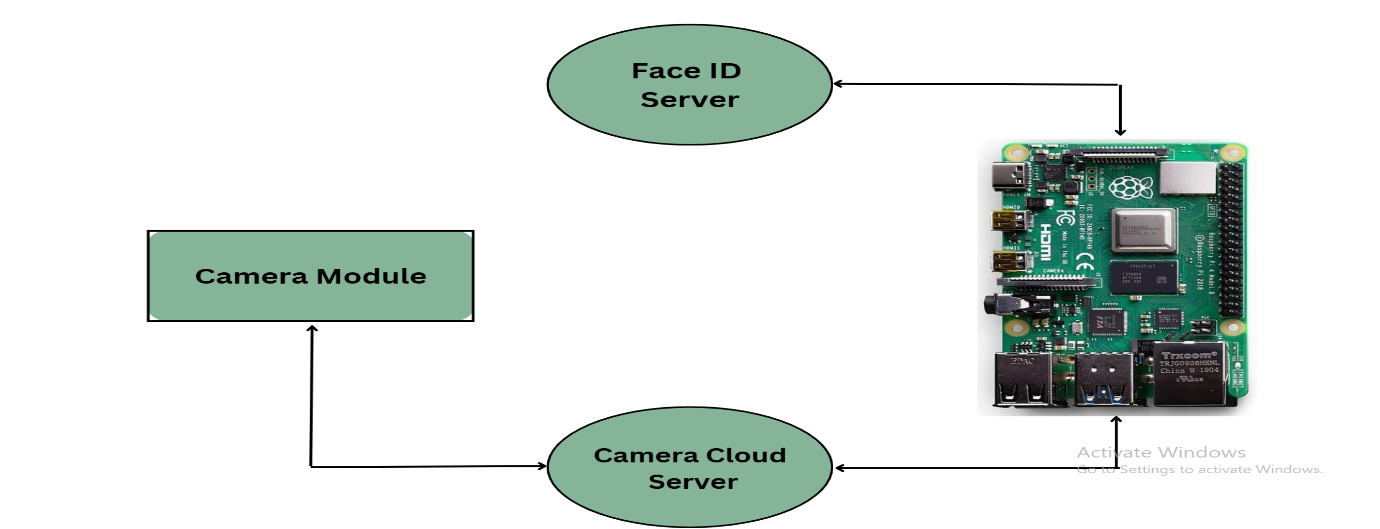
****

Figure 6 : Architecture of Raspberry Pi

# **LED Indication of DMS ID:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Event** | **LED 1 (Red)** | **LED 2 (Red)** | **LED 3 (Yellow)** | **LED 4(Green)** |
| **Start** | ON | OFF | OFF | OFF |
| **Test Start** | ON | Blink | OFF | OFF |
| **Positive ID** | ON | OFF | OFF | ON |
| **Negative ID** | ON | OFF | ON | OFF |
| **No Response** | ON | OFF | ON | ON |
| **No Internet** | Blink | Blink | OFF | OFF |

Table 2: LED indication of DMS ID

# **GPIO PIN for LED and Switch:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Component** | **LED 1 (Red)** | **LED 2 (Red)** | **LED 3 (Yellow)** | **LED 4**  **(Green)** | **Switch 1** | **Switch 2** | **Switch 3** | **Switch 4** | **Switch 5** |
| **GPIO #** | 4 | 17 | 18 | 27 | 5 | 6 | 13 | 19 | 26 |
| **PIN #** | 7 | 11 | 12 | 13 | 29 | 31 | 33 | 35 | 37 |

Table 3: GPIO & PIN for LED’s and Switches

# **Logs of Web App:**

## **Select Camera-**

127.0.0.1 - - [02/Dec/2024 14:25:39] "GET / HTTP/1.1" 200 -

123682

123682

123682

127.0.0.1 - - [02/Dec/2024 14:25:42] "POST /choosecamera HTTP/1.1" 200 -

123682

## **Checking device is Online or Offline-**

Online

127.0.0.1 - - [02/Dec/2024 14:25:45] "GET /check\_status HTTP/1.1" 200 –

## **Authorized Driver List-**

ID: a26c0760-05f0-4958-82a7-9b48e5bcf7a1, Name: Chaitanya Diwan

ID: d410d2c3-dd41-42ae-b0be-ef6cc0c52f88, Name: Vagish SG

ID: 0a409065-a071-4827-8a1b-3df0c0a667dc, Name: keiki ka

ID: 022eeed6-e372-4942-ac53-3085d306a67d, Name: Nitin Bangar

ID: 70381d44-72c3-4637-a105-02472687eaa3, Name: Amogh Manikkuwar

ID: 31bb1341-529f-4d4c-b240-8b5cb468f6d4, Name: Tokita Masatoshi

ID: 560fefc9-a949-4a0c-8f68-a91828f9ce29, Name: Christoph Gross

ID: 05c00a4c-66cf-44fe-970d-6329ad8a7c0e, Name: Daniel Huang

ID: 4faee9c6-91b7-4263-8621-39c52462d01e, Name: Nishmitha Shetty

ID: d7d343d5-c134-4203-8fb6-1a9379d96a97, Name: Amith

ID: aee9b547-c8bb-4737-adc9-b925d75b3600, Name: Martin

ID: 2e3990d7-d86c-40ce-bd1d-145cb9cac177, Name: gagana

ID: 01053063-ddea-4ff0-88c7-1420b9120218, Name: Tamura

ID: 6f9debc4-2b36-499b-97b3-a53b4e9a36d5, Name: saitou

ID: ff5d5b2b-a10b-4bd9-8949-f52ff77d8a3b, Name: Lavanya K J

ID: dbaf2e60-287f-4bb5-8876-d169cabd1c57, Name: prithvi

ID: a9fd7c46-7d9c-4558-8ac3-4f2a59ee510b, Name: Eloed Gyoerffy

ID: 575863ce-c3cc-482b-8f70-359fcf2dcf23, Name: Vijay Tiwari

ID: 597b6034-44e6-4dd1-b710-4d0af4f3f104, Name: amith KA

ID: 5c6491f9-4d12-4cab-ae2f-68a634722c6b, Name: Narmatha

ID: a0e20103-9039-4ef2-aa92-68c6e941f737, Name: Ronia

127.0.0.1 - - [02/Dec/2024 14:26:03] "GET /display\_faces HTTP/1.1" 200 –

## **Delete Face-**

127.0.0.1 - - [02/Dec/2024 14:26:27] "POST /delete\_face HTTP/1.1" 200

current\_timestamp 1733129797853

end\_timestamp 1733129812853

Endpoint ID in /compare: 123682

123682

## **For Unauthorized User -**

WITHIN send recording EVQETDNIPSVHUN31S59G4N0JEHGGE3APQGHHMEIAOLBWXVGSAAD25GEZWZ4MGSZ0ZJXC4KBKRXTSPBRC97RHCTQ5IYWEQABK0NLCP1TY37PXEOARABGQRKXADWPOKV2R 6 ALL 123682 None 1733129797853

Response Data: {'status': True, 'requestStatus': 'SENT', 'requestId': '6e122761-528d-418f-a4f1-3b136423d1a4', 'failureReason': None}

Requested ID: 6e122761-528d-418f-a4f1-3b136423d1a4

Result: {'Request ID': '6e122761-528d-418f-a4f1-3b136423d1a4', 'Endpoint ID': 123682, 'Status': 'SENT', 'Summary': '', 'Start Time': 1733129798890, 'Length': 6, 'Content': 'ALL'}

Status: SENT

Result: {'Request ID': '6e122761-528d-418f-a4f1-3b136423d1a4', 'Endpoint ID': 123682, 'Status': 'COMPLETED', 'Summary': '', 'Start Time': 1733129798890, 'Length': 6, 'Content': 'ALL'}

Status: COMPLETED

Start Time: 1733129798890

endpoint\_id = 123682

https://api.smarterai.com/v4

BASE\_@@@@@@@@@@@@ https://api.smarterai.com/v4/endpoints/123682/recordings

Recording ID: 37766468

Start Timestamp: 1733129797699

End Timestamp: 1733129800632

Source: vid\_2

Type: VIDEO

URL: https://api.smarterai.com/url/redirect/v5/MEDIA/599d671c-b667-4f82-a36a-60e557e5ecec

----------------------------------------

Saved the third frame as ./Driver\_ID/tempimage\first\_frame.jpg

ENDPOINT https://frec.edgetensor.ai/v3/lookups/face

Face Lookup Result: {

    "lookup\_results": [

        {

            "best\_matched\_face\_token": "a26c0760-05f0-4958-82a7-9b48e5bcf7a1",

            "best\_matched\_face\_image\_url": "https://frec-prod-files.s3.amazonaws.com/faces/3581d0ca-2ad2-423d-980e-a5dc681faaea/67616902-2903-4c7d-836e-3d4b18dfb6a3/enrollment/20240222T081037372280?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAVP22FU4PJS5MWJPE%2F20241202%2Fus-east-2%2Fs3%2Faws4\_request&X-Amz-Date=20241202T085658Z&X-Amz-Expires=3600&X-Amz-SignedHeaders=host&X-Amz-Signature=aa1a325ee0dbeda1760d6367a7083a4d865649764c345d8ef6973677aece9d37",

            "sequence\_number": 0,

            "confidence\_score": 0.5771

        }

    ],

    "project\_id": "3581d0ca-2ad2-423d-980e-a5dc681faaea",

    "faceset\_id": "67616902-2903-4c7d-836e-3d4b18dfb6a3"

}

Face Landmark Lookup Result: {

    "lookup\_results": [

        {

            "best\_matched\_face\_token": "a26c0760-05f0-4958-82a7-9b48e5bcf7a1",

            "best\_matched\_face\_image\_url": "https://frec-prod-files.s3.amazonaws.com/faces/3581d0ca-2ad2-423d-980e-a5dc681faaea/67616902-2903-4c7d-836e-3d4b18dfb6a3/enrollment/20240222T081037372280?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAVP22FU4PJS5MWJPE%2F20241202%2Fus-east-2%2Fs3%2Faws4\_request&X-Amz-Date=20241202T085701Z&X-Amz-Expires=3600&X-Amz-SignedHeaders=host&X-Amz-Signature=ec5fbc7203b25a35ca8f8fbf15953f5bf1049c066c585230fc6ef8c862c302b2",

            "sequence\_number": 0,

            "confidence\_score": 0.5801

        }

    ],

    "project\_id": "3581d0ca-2ad2-423d-980e-a5dc681faaea",

    "faceset\_id": "67616902-2903-4c7d-836e-3d4b18dfb6a3"

}

Unknown face. Confidence: 0.5801

127.0.0.1 - - [02/Dec/2024 14:40:36] "GET /check\_status HTTP/1.1" 200 –

## **Upload face-**

image\_path = ./Driver\_ID/selectedimage/Pratik.jpeg

image\_file <FileStorage: 'Pratik.jpeg' ('image/jpeg')>

name = Pratik Waghmode

Response Content: b'{"id\_": "833622e6-1bcf-40d5-9333-a67b3eb0d5e2", "duplicate\_status": 0, "name": "Pratik Waghmode", "project\_id": "3581d0ca-2ad2-423d-980e-a5dc681faaea", "images": [{"image\_url": "https://frec.edgetensor.ai/v2/faces/image/9eb50b92-53bc-4a7a-8e94-a8cb7a35cedd-040a0385-100c-45b8-ad24-28cada3e6612", "created\_on": "2024-12-02 09:10:47.178570"}], "face\_token": "833622e6-1bcf-40d5-9333-a67b3eb0d5e2", "created\_on": "2024-12-02 09:10:47.178619", "faceset\_id": "67616902-2903-4c7d-836e-3d4b18dfb6a3"}'

Response Status Code: 200

## **For Authorized User-**

WITHIN send recording EVQETDNIPSVHUN31S59G4N0JEHGGE3APQGHHMEIAOLBWXVGSAAD25GEZWZ4MGSZ0ZJXC4KBKRXTSPBRC97RHCTQ5IYWEQABK0NLCP1TY37PXEOARABGQRKXADWPOKV2R 6 ALL 123682 driver\_verification\_failed 1733130667606

Response Data: {'status': True, 'requestStatus': 'SENT', 'requestId': '39ab2d3b-b78b-4794-b7ca-f43fc092f901', 'failureReason': None}

Requested ID: 39ab2d3b-b78b-4794-b7ca-f43fc092f901

127.0.0.1 - - [02/Dec/2024 14:41:45] "POST /compare HTTP/1.1" 200 -

current\_timestamp 1733130738664

end\_timestamp 1733130753664

Endpoint ID in /compare: 123682

123682

WITHIN send recording EVQETDNIPSVHUN31S59G4N0JEHGGE3APQGHHMEIAOLBWXVGSAAD25GEZWZ4MGSZ0ZJXC4KBKRXTSPBRC97RHCTQ5IYWEQABK0NLCP1TY37PXEOARABGQRKXADWPOKV2R 6 ALL 123682 None 1733130738664

Response Data: {'status': True, 'requestStatus': 'SENT', 'requestId': '877f4c4a-46dd-4465-88d7-52a9e31b1f3e', 'failureReason': None}

Requested ID: 877f4c4a-46dd-4465-88d7-52a9e31b1f3e

Result: {'Request ID': '877f4c4a-46dd-4465-88d7-52a9e31b1f3e', 'Endpoint ID': 123682, 'Status': 'SENT', 'Summary': '', 'Start Time': 1733130739194, 'Length': 6, 'Content': 'ALL'}

Status: SENT

Result: {'Request ID': '877f4c4a-46dd-4465-88d7-52a9e31b1f3e', 'Endpoint ID': 123682, 'Status': 'COMPLETED', 'Summary': '', 'Start Time': 1733130739194, 'Length': 6, 'Content': 'ALL'}

Status: COMPLETED

Start Time: 1733130739194

endpoint\_id = 123682

https://api.smarterai.com/v4

BASE\_@@@@@@@@@@@@ https://api.smarterai.com/v4/endpoints/123682/recordings

Recording ID: 37769760

Start Timestamp: 1733130736699

End Timestamp: 1733130739632

Source: vid\_2

Type: VIDEO

URL: https://api.smarterai.com/url/redirect/v5/MEDIA/3938efae-3480-413b-bb4d-88d771d769e3

----------------------------------------

Saved the third frame as ./Driver\_ID/tempimage\first\_frame.jpg

ENDPOINT https://frec.edgetensor.ai/v3/lookups/face

Face Lookup Result: {

    "lookup\_results": [

        {

            "best\_matched\_face\_token": "833622e6-1bcf-40d5-9333-a67b3eb0d5e2",

            "best\_matched\_face\_image\_url": "https://frec-prod-files.s3.amazonaws.com/faces/3581d0ca-2ad2-423d-980e-a5dc681faaea/67616902-2903-4c7d-836e-3d4b18dfb6a3/enrollment/20241202T091046974248?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAVP22FU4PJS5MWJPE%2F20241202%2Fus-east-2%2Fs3%2Faws4\_request&X-Amz-Date=20241202T091237Z&X-Amz-Expires=3600&X-Amz-SignedHeaders=host&X-Amz-Signature=296c79831609c4bd2f47d9e7b0ad9bb981e8f35f15c5b9c88130fd9dbe430efc",

            "sequence\_number": 0,

            "confidence\_score": 0.8059

        }

    ],

    "project\_id": "3581d0ca-2ad2-423d-980e-a5dc681faaea",

    "faceset\_id": "67616902-2903-4c7d-836e-3d4b18dfb6a3"

}

Face Landmark Lookup Result: {

    "lookup\_results": [

        {

            "confidence\_score": 0.8083,

            "best\_matched\_face\_image\_url": "https://frec-prod-files.s3.amazonaws.com/faces/3581d0ca-2ad2-423d-980e-a5dc681faaea/67616902-2903-4c7d-836e-3d4b18dfb6a3/enrollment/20241202T091046974248?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAVP22FU4PJS5MWJPE%2F20241202%2Fus-east-2%2Fs3%2Faws4\_request&X-Amz-Date=20241202T091240Z&X-Amz-Expires=3600&X-Amz-SignedHeaders=host&X-Amz-Signature=293dd1c9c41be6a4a478ec45b5c82c0d0857b82d9caa03969020a5366039351b",

            "sequence\_number": 0,

            "best\_matched\_face\_token": "833622e6-1bcf-40d5-9333-a67b3eb0d5e2"

        }

    ],

    "project\_id": "3581d0ca-2ad2-423d-980e-a5dc681faaea",

    "faceset\_id": "67616902-2903-4c7d-836e-3d4b18dfb6a3"

}

Face recognized with confidence: 0.8083

Face Token: 833622e6-1bcf-40d5-9333-a67b3eb0d5e2

Recognized Name: Pratik Waghmode

## **For absent User-**

WITHIN send recording EVQETDNIPSVHUN31S59G4N0JEHGGE3APQGHHMEIAOLBWXVGSAAD25GEZWZ4MGSZ0ZJXC4KBKRXTSPBRC97RHCTQ5IYWEQABK0NLCP1TY37PXEOARABGQRKXADWPOKV2R 6 ALL 123682 None 1733129797853

Response Data: {'status': True, 'requestStatus': 'SENT', 'requestId': '6e122761-528d-418f-a4f1-3b136423d1a4', 'failureReason': None}

Requested ID: 6e122761-528d-418f-a4f1-3b136423d1a4

Result: {'Request ID': '6e122761-528d-418f-a4f1-3b136423d1a4', 'Endpoint ID': 123682, 'Status': 'SENT', 'Summary': '', 'Start Time': 1733129798890, 'Length': 6, 'Content': 'ALL'}

Status: SENT

Result: {'Request ID': '6e122761-528d-418f-a4f1-3b136423d1a4', 'Endpoint ID': 123682, 'Status': 'COMPLETED', 'Summary': '', 'Start Time': 1733129798890, 'Length': 6, 'Content': 'ALL'}

Status: COMPLETED

Start Time: 1733129798890

endpoint\_id = 123682

https://api.smarterai.com/v4

BASE\_@@@@@@@@@@@@ https://api.smarterai.com/v4/endpoints/123682/recordings

Recording ID: 37766468

Start Timestamp: 1733129797699

End Timestamp: 1733129800632

Source: vid\_2

Type: VIDEO

URL: https://api.smarterai.com/url/redirect/v5/MEDIA/599d671c-b667-4f82-a36a-60e557e5ecec

----------------------------------------

Saved the third frame as ./Driver\_ID/tempimage\first\_frame.jpg

ENDPOINT https://frec.edgetensor.ai/v3/lookups/face

Face Lookup Result: {

    "lookup\_results": [

        {

            "best\_matched\_face\_token": "a26c0760-05f0-4958-82a7-9b48e5bcf7a1",

            "best\_matched\_face\_image\_url": "https://frec-prod-files.s3.amazonaws.com/faces/3581d0ca-2ad2-423d-980e-a5dc681faaea/67616902-2903-4c7d-836e-3d4b18dfb6a3/enrollment/20240222T081037372280?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAVP22FU4PJS5MWJPE%2F20241202%2Fus-east-2%2Fs3%2Faws4\_request&X-Amz-Date=20241202T085658Z&X-Amz-Expires=3600&X-Amz-SignedHeaders=host&X-Amz-Signature=aa1a325ee0dbeda1760d6367a7083a4d865649764c345d8ef6973677aece9d37",

            "sequence\_number": 0,

            "confidence\_score": -1

        }

    ],

    "project\_id": "3581d0ca-2ad2-423d-980e-a5dc681faaea",

    "faceset\_id": "67616902-2903-4c7d-836e-3d4b18dfb6a3"

}

Face Landmark Lookup Result: {

    "lookup\_results": [

        {

            "best\_matched\_face\_token": "a26c0760-05f0-4958-82a7-9b48e5bcf7a1",

            "best\_matched\_face\_image\_url": "https://frec-prod-files.s3.amazonaws.com/faces/3581d0ca-2ad2-423d-980e-a5dc681faaea/67616902-2903-4c7d-836e-3d4b18dfb6a3/enrollment/20240222T081037372280?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAVP22FU4PJS5MWJPE%2F20241202%2Fus-east-2%2Fs3%2Faws4\_request&X-Amz-Date=20241202T085701Z&X-Amz-Expires=3600&X-Amz-SignedHeaders=host&X-Amz-Signature=ec5fbc7203b25a35ca8f8fbf15953f5bf1049c066c585230fc6ef8c862c302b2",

            "sequence\_number": 0,

            "confidence\_score": -1

        }

    ],

}

Not prsent in vehicle.

# **Logs of Raspberry pi:**

## **For Authorized user:**

CALLBACK OVER------ 123682

Starting Main ====================

Test started ====================

System Ready

ENDPOINTID: 123682

123682

URL https://api.smarterai.com/v4/endpoints/123682

{'id': 123682, 'userId': 0, 'tenantId': '72d72a68-3798-4e6c-9bf1-47ca0a3f434a', 'groupId': 28763, 'groupName': 'SAMSAN\_Bench Testing', 'productId': 'c078a302-3926-453f-87f3-036ffc2d1018', 'productName': 'Smarter AI Dashcam', 'vin': '', 'type': 'DEVICE', 'status': 'ACTIVE', 'lastUpdateTime': 1733303833560, 'createTime': 1707803085636, 'licensePlate': '', 'vinOnboarded': None, 'label': 'SAMSAN Demo - F412245F9MXIP', 'region': 'Maharashtra', 'city': 'Pune', 'country': 'India', 'latitude': 18.51957, 'longitude': 73.85535, 'packageVersion': '2024.17.54-release', 'systemImage': 'R28.2.6640.0.0.20230904', 'oemImage': 'R18', 'canBus': '2023.42.26-release', 'lteModem': 'N664-R00A04-000000\_20210915', 'smartCable': '0.0.0', 'ipv4Address': '103.35.134.165', 'skuNumber': 'SAI-DC-EMEA', 'parkingModeStatus': 'NotInParkingMode', 'operatingMode': 'OPERATION', 'adjustmentExpiresAt': 1733304571279, 'pluggedDevice': '<NONE>', 'isOnline': True, 'lastOnlineTime': 0, 'networkInfo': [{'type': 'WIFI', 'name': '"samsan 2.4"'}, {'type': 'LTE', 'name': 'airtel'}], 'deviceSerialNumber': 'F412245F9MXIP'}

Device online

Flag Check:::::: False 0

Sending request =============

Response: 1b31e9bf-98e5-43e8-b612-b3af6849fddc {'status': True, 'requestStatus': 'SENT', 'requestId': '1b31e9bf-98e5-43e8-b612-b3af6849fddc', 'failureReason': None}

Waiting for Recording =============

SENT

Waiting for Recording =============

ONGOING

Waiting for Recording =============

COMPLETED

Get Recording ================

https://api.smarterai.com/v4

BASE https://api.smarterai.com/v4/endpoints/123682/recordings

Recording ID: 38268212

Start Timestamp: 1733304575368

End Timestamp: 1733304578302

Source: vid\_2

Type: VIDEO

URL: https://api.smarterai.com/url/redirect/v5/MEDIA/b3f7025a-1ee9-4d50-a551-53643c1b3ad7

----------------------------------------

URL: https://api.smarterai.com/url/redirect/v5/MEDIA/b3f7025a-1ee9-4d50-a551-53643c1b3ad7

Saved the third frame as ./tempimage/first\_frame.jpg

ENDPOINT https://faceid.edgetensor.ai/v3/lookups/face

Face Lookup Result: {

"lookup\_results": [

{

"confidence\_score": 0.8049,

"best\_matched\_face\_image\_url": "https://frec-prod-files.s3.amazonaws.com/faces/3581d0ca-2ad2-423d-980e-a5dc681faaea/67616902-2903-4c7d-836e-3d4b18dfb6a3/enrollment/20241204T075112276062?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAVP22FU4PJS5MWJPE%2F20241204%2Fus-east-2%2Fs3%2Faws4\_request&X-Amz-Date=20241204T093010Z&X-Amz-Expires=3600&X-Amz-SignedHeaders=host&X-Amz-Signature=e4b7bc83a3c9c9c995458c1884c4020ae17c797c0267e64660276375f2e3ff45",

"sequence\_number": 0,

"best\_matched\_face\_token": "ecbc02af-cfef-4acf-bd54-7aa2edf10caf"

}

],

"project\_id": "3581d0ca-2ad2-423d-980e-a5dc681faaea",

"faceset\_id": "67616902-2903-4c7d-836e-3d4b18dfb6a3"

}

Face Landmark Lookup Result: {

"lookup\_results": [

{

"sequence\_number": 0,

"confidence\_score": 0.8048,

"best\_matched\_face\_image\_url": "https://frec-prod-files.s3.amazonaws.com/faces/3581d0ca-2ad2-423d-980e-a5dc681faaea/67616902-2903-4c7d-836e-3d4b18dfb6a3/enrollment/20241204T075112276062?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAVP22FU4PJS5MWJPE%2F20241204%2Fus-east-2%2Fs3%2Faws4\_request&X-Amz-Date=20241204T093013Z&X-Amz-Expires=3600&X-Amz-SignedHeaders=host&X-Amz-Signature=c6866dc5f5c3e78c37c2152169bf4a39f7f1ffe3049e1c4fe7354dd018d2acef",

"best\_matched\_face\_token": "ecbc02af-cfef-4acf-bd54-7aa2edf10caf"

}

],

"faceset\_id": "67616902-2903-4c7d-836e-3d4b18dfb6a3",

"project\_id": "3581d0ca-2ad2-423d-980e-a5dc681faaea"

}

System Ready

Face recognized with confidence: 0.8048

Face Token: ecbc02af-cfef-4acf-bd54-7aa2edf10caf

Recognized Name: Pratik Waghmode

SENDING DRIVER VERIFIED============

"2024-12-04T09:30:16.243586"

{'timestamp': '"2024-12-04T09:30:16.243586"', 'camera\_id': 123682, 'driver\_name': 'Pratik Waghmode', 'driver\_id': 'ecbc02af-cfef-4acf-bd54-7aa2edf10caf', 'is\_verified': True, 'video\_link': 'https://api.smarterai.com/url/redirect/v5/MEDIA/b3f7025a-1ee9-4d50-a551-53643c1b3ad7', 'lat': 18.51957, 'lng': 73.85535, 'confidence': '0.8048'}

Response Data: 2c48fbee-ada3-4185-bf9e-647af230646a {'status': True, 'requestStatus': 'SENT', 'requestId': '2c48fbee-ada3-4185-bf9e-647af230646a', 'failureReason': None}

===============Device Sleeping================