Auto Car Classifier User Manual

Edited by:

Fiwa Lekhulani Abhinav Thakur Vincent Soweto Andrew Jordaan Keorapetse Shiko

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1 System Overview

This system is a progressive web app that can detect cars in images, extract plates from the images and classify the car according to make model and year

2 System Configuration

This app is configured to run on chrome, safari, firefox and Opera. It is also mobile responsive to phones later than the Samsung ${\bf S5}$

3 installation

The user will only need users signup for the service for which is web based app that they will run on their device. Once logged in they will be able to use the car classifier to classify vehicle.

4 Use cases

4.1 Log screen

To login, the user would have to input their credentials and password.

4.2 Upload screen

The user will upload a photo and determine which operation to click on namely CAR, COLOR or PLATES button.

4.3 Car screen

On this screen as you can see the user has a picture that they have uploaded.

4.4 Detected car screen

4.5 Number plate screen

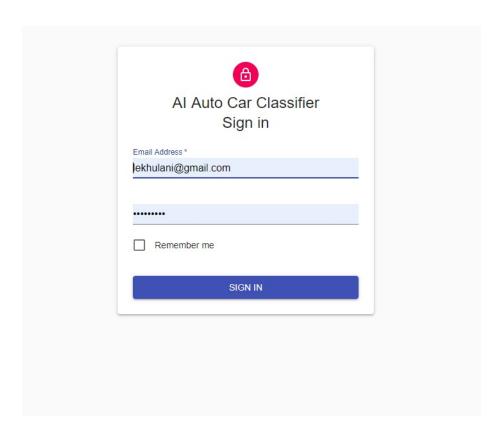


Figure 1: Login Screen



Figure 2: Upload Screen

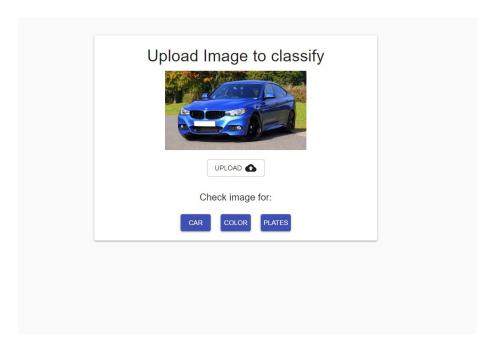


Figure 3: Car Screen

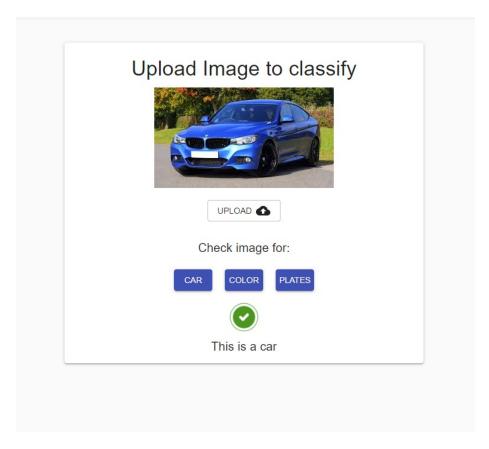


Figure 4: On this screen the car has been detected which is evident from the green ticked. From here the user may classify the car.

```
Body Cookies Headers (7)
                              Test Results
                                  JSON
                    Preview
Pretty
           Raw
           "status": "success",
   2
   3
           "numberPlate": "FN77HMGP",
            "coordinates": [
   4 +
   5 +
                     "x": 297,
   6
                     "v": 239
   7
   8
   9 +
  10
                     "x": 538,
                     "y": 235
   11
   12
   13 +
   14
                     "x": 539,
   15
                     "y": 283
   16
   17 +
   18
                     "x": 298,
   19
                     "y": 286
   20
   21
    22
```

Figure 5: Number plate character recognition and number plate coordinates in the picture upload $\,$