AI Auto Car Classifier
User Manual

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1   System Overview

The AI Auto Car Classifier is a progressive web application that from the front-view image of a car can detect a car, extract the number plates of the car if it has one, classifies the car's body color and make of the car. If the image uploaded does not detect a car from the image, the user gets a pop-up message saying "It's not a car" and terminates the process.

2   System Configuration

The AI Auto Car Classifier web application works on devices, including mobile, with browsers enabled with JavaScript. A version "5"+ browser is required. It should allow "Javascript" or "Active scripting(IE)".
On Windows: Internet Explorer 5.0 and above, Mozilla Firefox 0.9.3, and Opear 7.11
On a Mac OS X 10.3 machine: Internet Explorer 5.2.3 and Safari 1.25
On a Linux Redhat 8.0 machine: Mozilla 1.0 and 1.7, and Galeon 1.4
It is advisable for the user to use Google Chrome browser in order to achieve optimal results from the system.

3   Installation

The AI Auto Car Classifier is a web application and cannot be installed. The website can be accessed by users who successfully login to our website.

4   Using the system

4.1   Logging In

In order for a user to use the AI AUTO CAR classifier system, the user must first sign in successfully with the information the user signed up with.
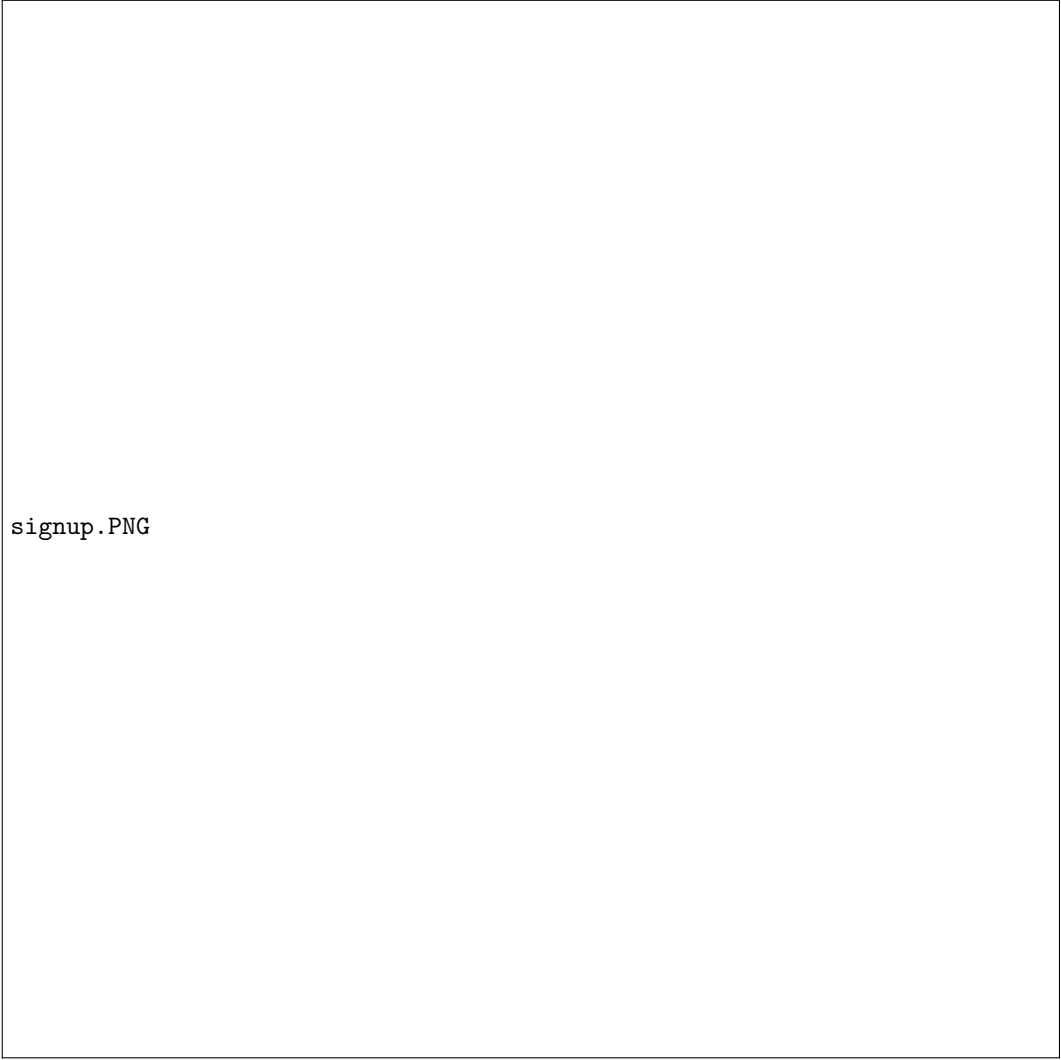
4.2   Using the system

The user must click on the "Browse" button to upload an image that the user wishes to classify; alternatively, the user may also drag and drop the image they would like to classify on top of the "Browse" button. After the image is uploaded, it is sent for classification. If the image uploaded is of a car from the front view, the system displays the information found of whether the car has a number plate and if it does, the number plate is displayed, followed by displaying the values of the color and make of the car.

4.2.2   Submit to inventory

In the event of the classification being accurate, the user must click on this button, Submit to inventory, when the user has verified that the information of

4.1.1 Sign Up

In order for a new user to be able to use the system, the user must enter the user's email ID and click on "Next". The user must then enter their first name and last name and choose a password that they will use to log into the system. The email ID provided will be the email address where the resetting of the password link will be sent to the user, in case the user forgets the password.

signup.PNG

Figure 1: Enter details of a previously unregistered user to create a new user, successfully sign in and use the web application.

4.1.2 Sign in

A previously registered user needs to enter his email ID and click on "Next"; followed by entering the user's password.
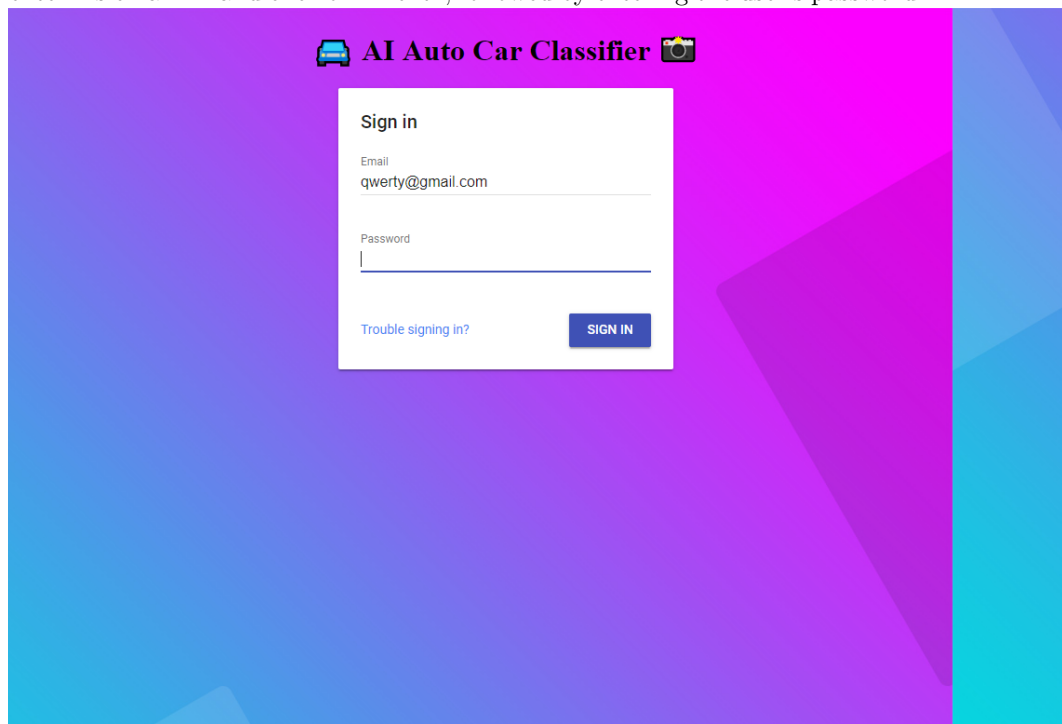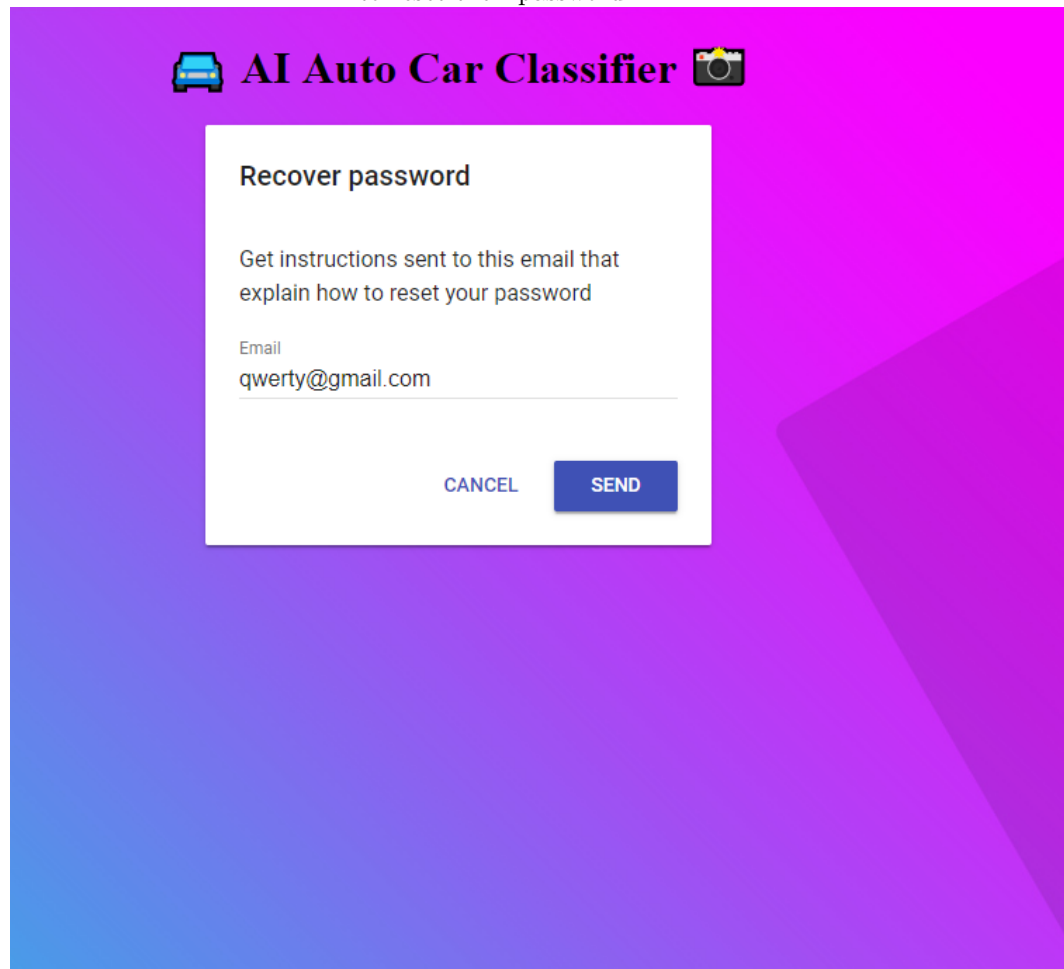

Figure 2: Enter details of a previously registered user to successfully sign in and use the web application.

4.1.3   Forgot Password

In the event of a registered user forgetting their password, the user can reset the password by entering their email ID that they used to register their profile, followed by clicking on "Trouble signing in". The user will then be emailed a link to reset their password.

Figure 3: In the event of a forgotten password, click on Trouble Signing In.

4.2.1 Report incorrect details

In the event where the front-view image of the car does not accurately output the image of the car, the user must click on this button and the user would be able to change the information before sending it to the inventory. Clicking on this button enables the option to edit the results by giving the user a prompt. Consequently, when the user has corrected the result, the user may then click on "Submit" to send the corrected classified data to the user's personal inventory,

containing all the classification information, the user submitted to the inventory.
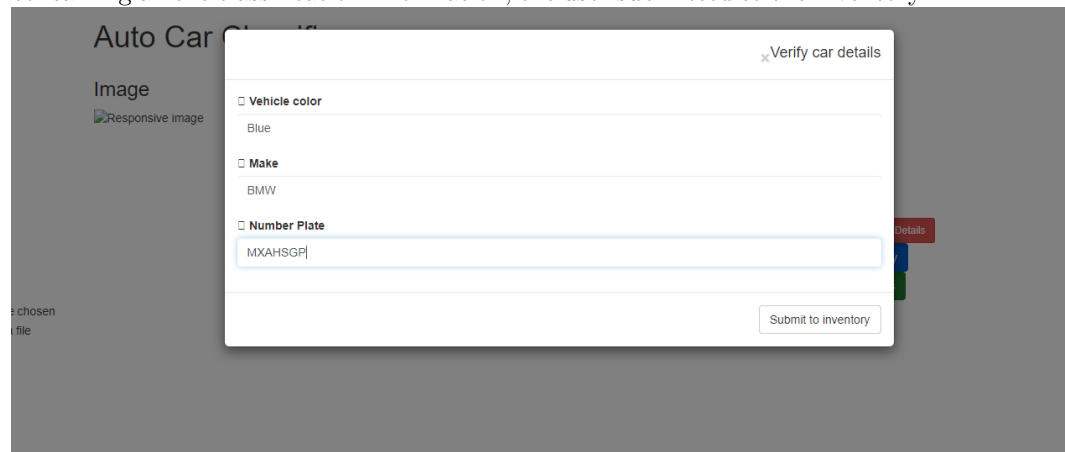

Figure 4: On clicking the Report Details button, a window prompt appears with the information that was just found, which can be edited, verified and sent to the user's personal inventory.

4.2.3 View inventory

The user must click on this button when the user wishes to view all the past cars that the user has submitted to the us personal inventory.

Figure 5: On clicking the View Inventory button a table of all the cars classified appears.

the car matches with the information displayed and the user wishes to save the information by sending it to the user's personal inventory list.

5 Troubleshooting

If the web application does not give a response within one minute of uploading the picture, please ensure your device is connected to the internet. Furthermore, if any user is experiencing an issue with using the system, the user can email their query at mail.ctrl.alt.elite@gmail.com.