
AI Auto Car Classifier User Manual

Edited by:

Fiwa Lekhulani
Abhinav Thakur
Vincent Soweto
Andrew Jordaan
Keorapetse Shiko

Contents

| | | |
|----------|--|------------|
| 1 | System Overview | II |
| 2 | System Configuration | II |
| 3 | Installation | II |
| 4 | Getting Started | III |
| 4.1 | Sign Up/Sign In | III |
| 5 | Using the system | IV |
| 5.1 | The Dashboard | IV |
| 5.2 | Uploading/Submitting Car | IV |
| 5.3 | Saving and Loading inventory | VI |
| 6 | Troubleshooting | VII |

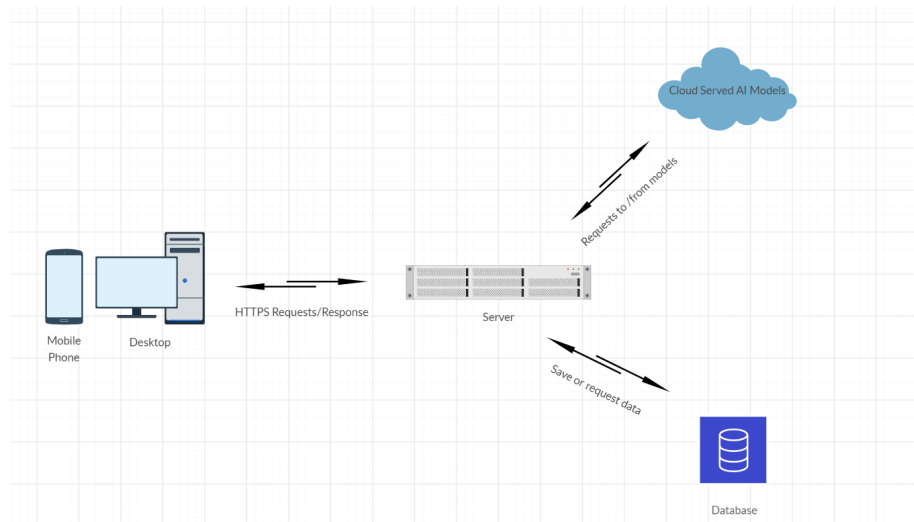
1 System Overview

Auto Car Classifier is a web application that intended to help car salespeople take images of cars and get specific details about the car, including the cars make, model, color and extracting its number-plate if any. This should auto-fill a form for the consultant to complete or correct and submit to their inventory of cars.

2 System Configuration

This web application is intended to work on mobile and desktop applications. Supported browsers for both mobile and desktop devices include the latest stable versions of Chrome, Safari, Edge and Firefox

Below is a depiction of communications between the users device and the system



3 Installation

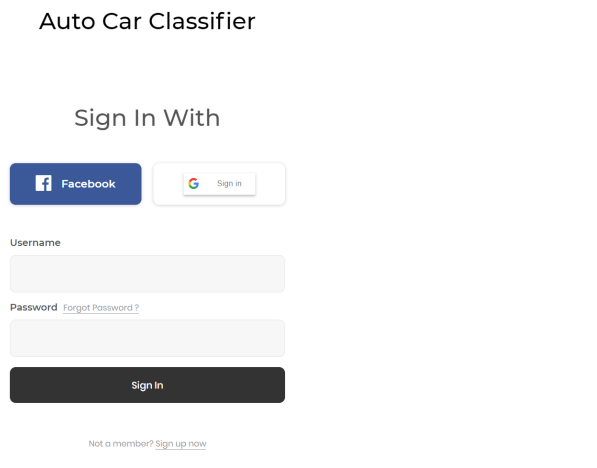
Since the system is a web application available on the internet, the user need only have a mobile or desktop device with either one of the supported browsers mentioned above and an active internet connection.

4 Getting Started

4.1 Sign Up/Sign In

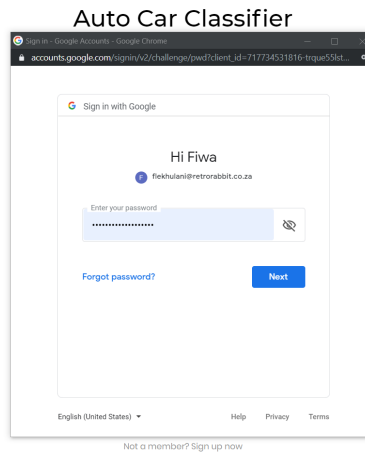
AI-Auto-Car-Classifier relies on Google and Facebook for authentication; as such in order to use the system, one needs to have an account with either one of the aforementioned platforms.

The steps below illustrate the sign-up or sign-in procedure.



The image shows a web page titled "Auto Car Classifier" with a "Sign In With" section. It features two buttons: a blue Facebook button and a white Google button with a "Sign in" link. Below these are input fields for "Username" and "Password", with a "Forgot Password?" link next to the password field. A dark "Sign In" button is at the bottom, and a link "Not a member? Sign up now" is at the very bottom.

Figure 1: Sign In Page



The image shows a web page titled "Auto Car Classifier" with a "Sign in with Google" section. It displays the Google sign-in interface, including the "Hi Fiwa" greeting, the email address "fiexhuleni@retorabbit.co.za", and a password input field with a "Forgot password?" link and a "Next" button. The page also includes a language selector "English (United States)" and links for "Help", "Privacy", and "Terms". A link "Not a member? Sign up now" is at the bottom.

Figure 2: Google Authentication

From here-on the user will be signed in and redirected to the dashboard. The procedure for Facebook authenticated sign-in/sign-up should be similar similar.

5 Using the system

5.1 The Dashboard

Upon successful sign in, the user will be redirected to the dashboard as shown below. This is a one stop location for access to all the functionality at the users disposal. The tiles at the top merely show statistics regarding the systems accuracy in detecting and classifying vehicles.

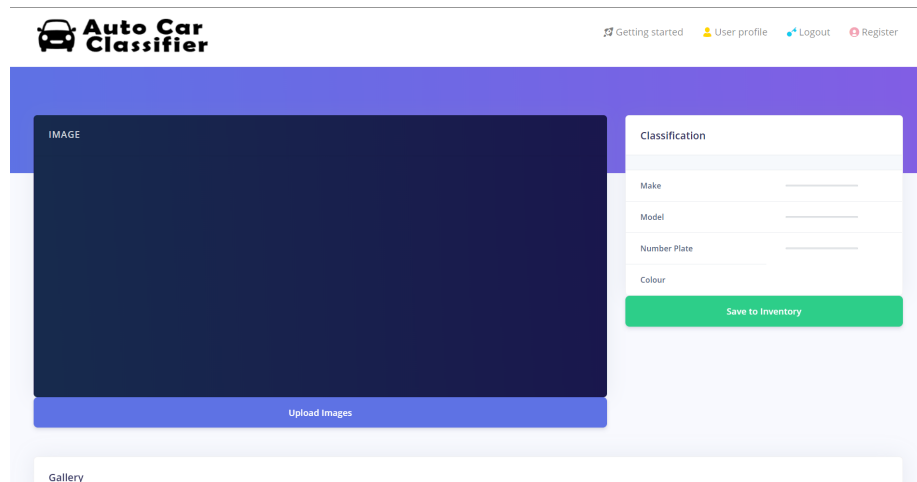


Figure 3: Dashboard

5.2 Uploading/Submitting Car

To upload or submit a car for classification, the user should click on the upload button shown on the dashboard. The user will then be prompted to select files from their desktop or mobile device. The user can alternatively choose to take an image from camera (mobile only). Upon successful upload the user will be redirected to the dashboard again where they will wait on average 5 seconds for a all classifications, detection's and extractions. All the aforementioned is depicted from Figure 4 through to Figure 7.

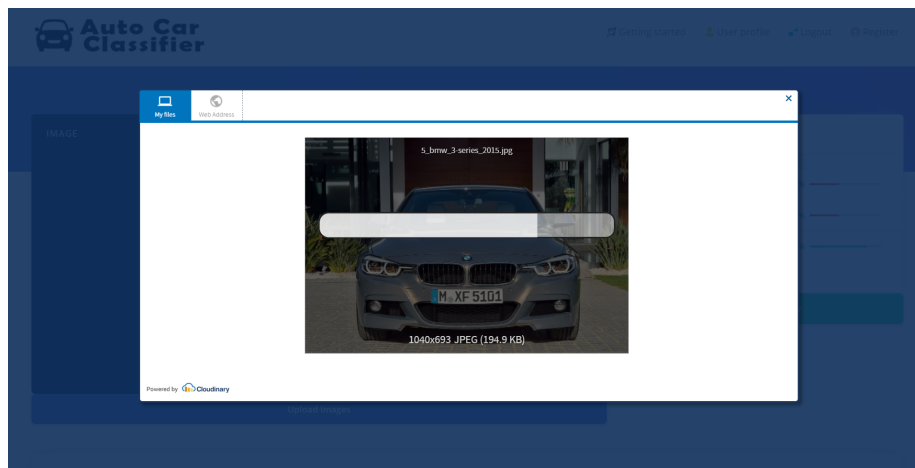


Figure 4: Uploading Image

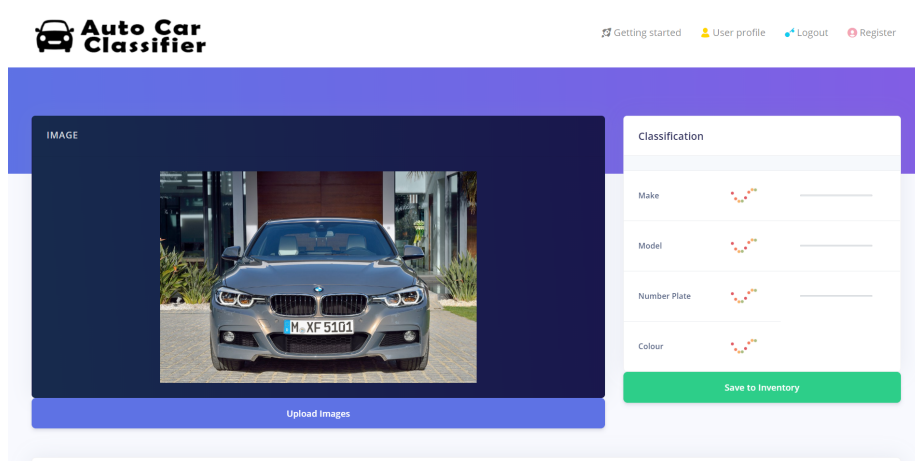


Figure 5: Loading image to server

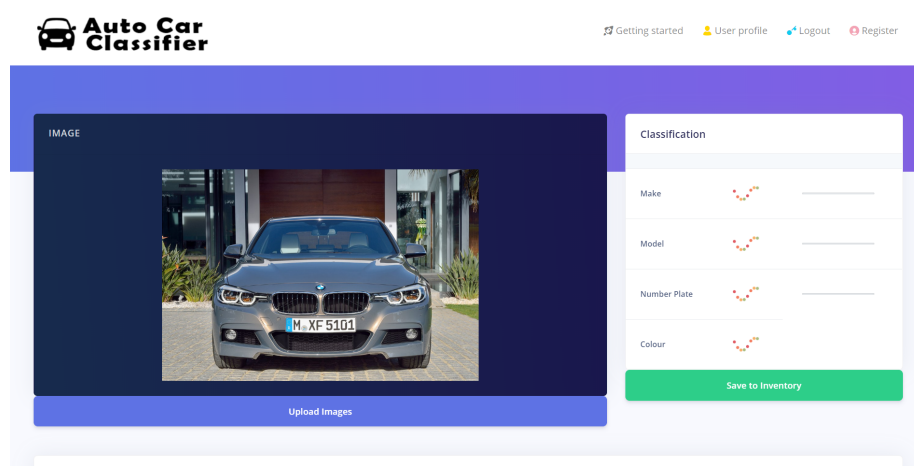


Figure 6: Loading image to server

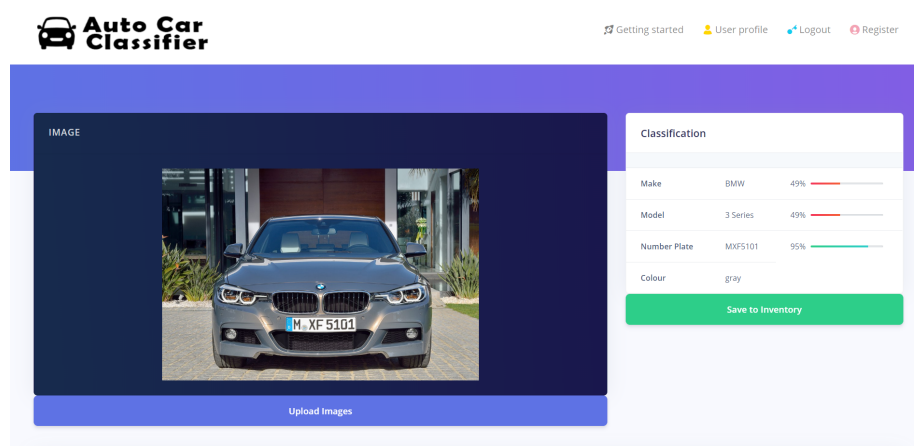


Figure 7: Classification Results

5.3 Saving and Loading inventory

If the user is satisfied with the classification result, they can then proceed to click the green "submit to inventory" button from Figure 7 above, where they will be required to fill in additional details about the vehicle. Once they click submit on the modal shown in Figure 8, the vehicle is added to their inventory. The inventory is shown in Figure 9.

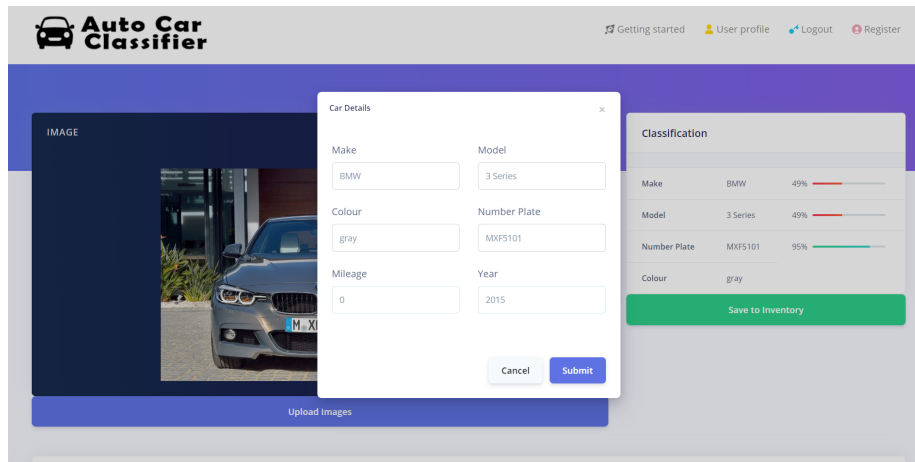


Figure 8: Complete Car Details

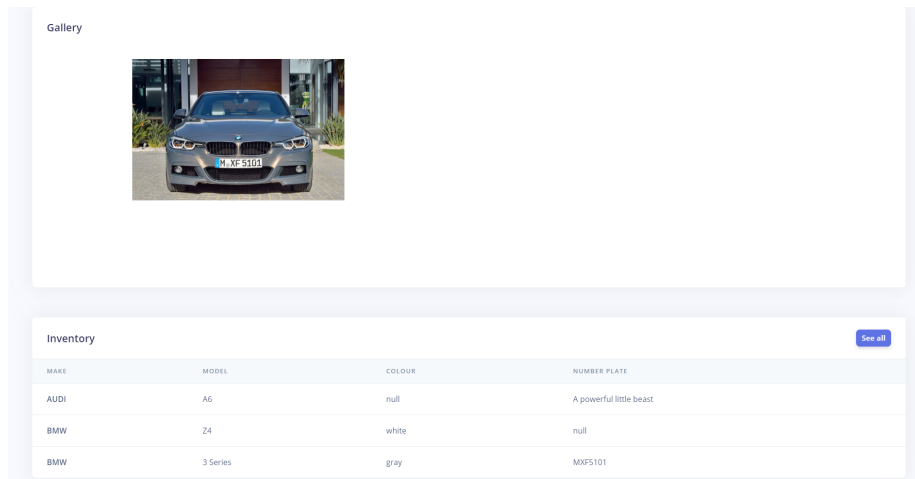


Figure 9: Car Inventory

6 Troubleshooting

In cases where the system takes unusually long (> 1 Minute) to return a result, the primary diagnosis would be that the models are restarting and one should try again by re-uploading an image. If this behaviour persists however, please feel free to mail the admin staff at mail.ctrl.alt.elite@gmail.com.