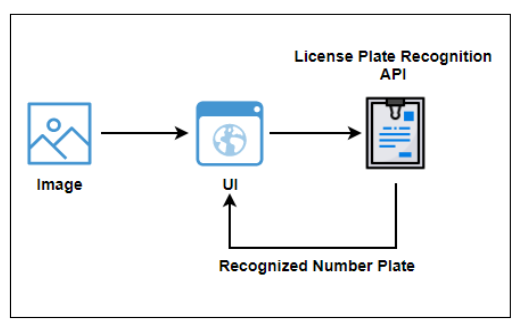
**Automatic Number Plate Recognition**

**Introduction:**

Number Plate Recognition System is an image processing technology which uses number (license) plate to identify the vehicle. The objective is to build web application that can efficient automatic authorized vehicle identification system by using the vehicle number plate. Number plate recognition (NPR) can be used in various fields such as vehicle tracking, traffic monitoring, automatic payment of tolls on highways or bridges, surveillance systems, tolls collection points, and parking management systems. The escalating increase of contemporary urban and national road networks over the last decades emerged the need for efficient monitoring and management of road traffic. Meanwhile, rising vehicle use causes social problems such as accidents, traffic congestion, and consequent traffic pollution. Number Plate Recognition is a process where vehicles are identified or recognized using their number plate or license plate. NPR uses image processing techniques so as to extract the vehicle number plate from digital images.

**Architecture**:

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**Overview:**

User interacts with the UI (User Interface) to upload the text or URL as an input. Uploaded input is analysed by the API which we subscribed. Once API analyses the uploaded input, the extracted keywords are showcased on the UI.

**Software:**

* Python
* HTML
* Flask
* Anaconda prompt
* Sublime text editor
* License plate recognition API

**License plate recognition API:**

License plate recognition involves capturing photographic video or images of license plates, whereby they are processed by a series of algorithms that are able to provide an alpha numeric conversion of the captured license plate images into a text entry.

**API CODE:**

|  |
| --- |
| import requests |
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| url = "https://zyanyatech1-license-plate-recognition-v1.p.rapidapi.com/recognize\_url" |
|  |

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| --- |
| querystring = {"image\_url":"http://eslamoda.com/wp-content/uploads/sites/2/2014/11/america-carro-600x600.jpg"} |
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| --- |
| headers = { |
|  |

|  |
| --- |
| 'x-rapidapi-key': "a24b8d6f6bmsh0779b8e14615952p1eff3bjsndead2eb3001a", |
|  |

|  |
| --- |
| 'x-rapidapi-host': "zyanyatech1-license-plate-recognition-v1.p.rapidapi.com" |
|  |

|  |
| --- |
| } |
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| --- |
| response = requests.request("POST", url, headers=headers, params=querystring) |
|  |

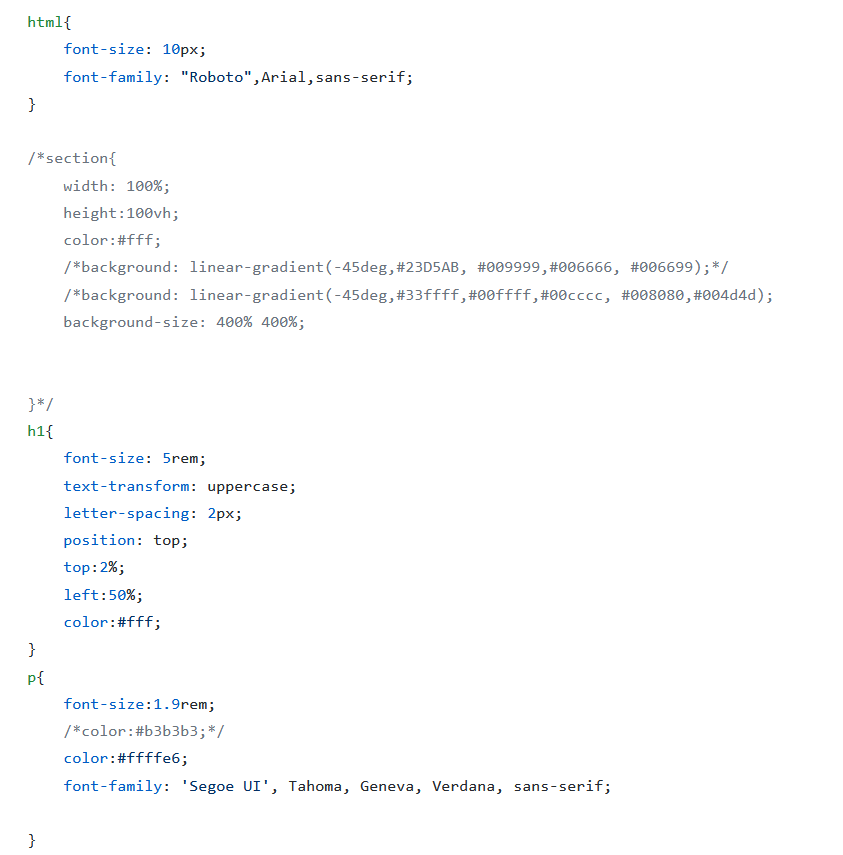
|  |
| --- |
|  |
|  |

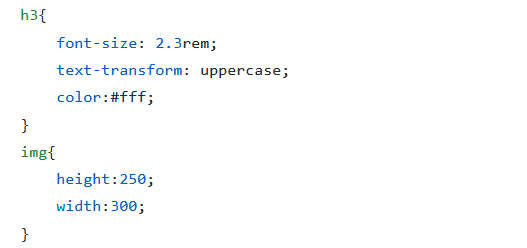
print(response.text)

**CODE SNIPPETS:**

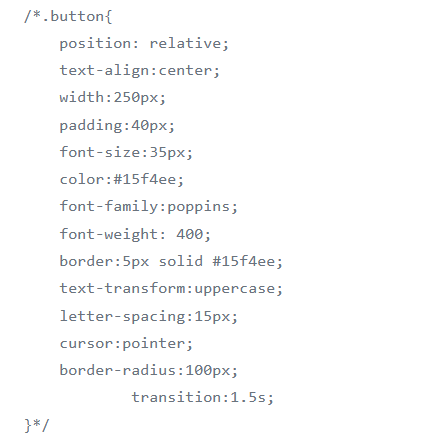
**HTML code:**

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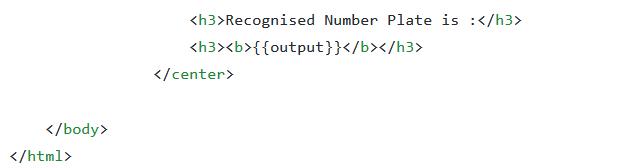
****

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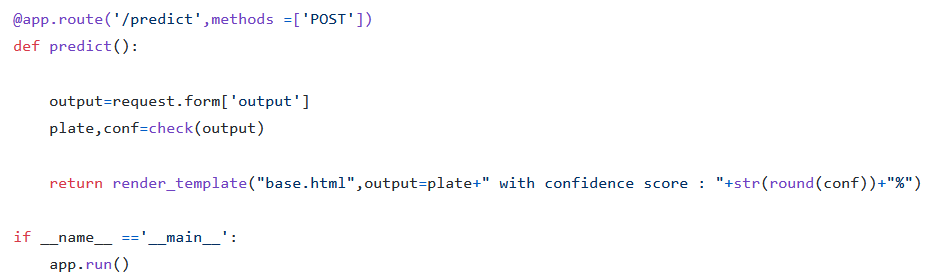
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**Flask APP:**

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**SCREENSHOTS:**

Takes image URL as input. Here image is shown.



Output

