

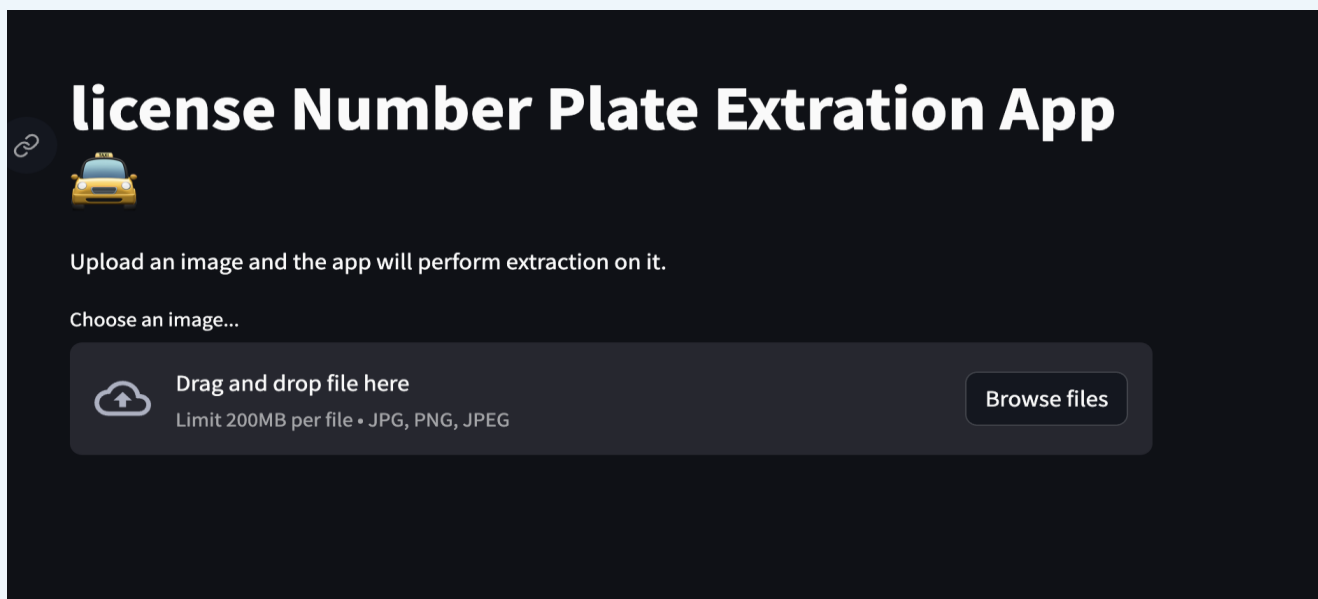
# Wireframe Documentation

## VEHICLE NUMBER PLATE DETECTION

## TRAFFIC SURVEILLANCE

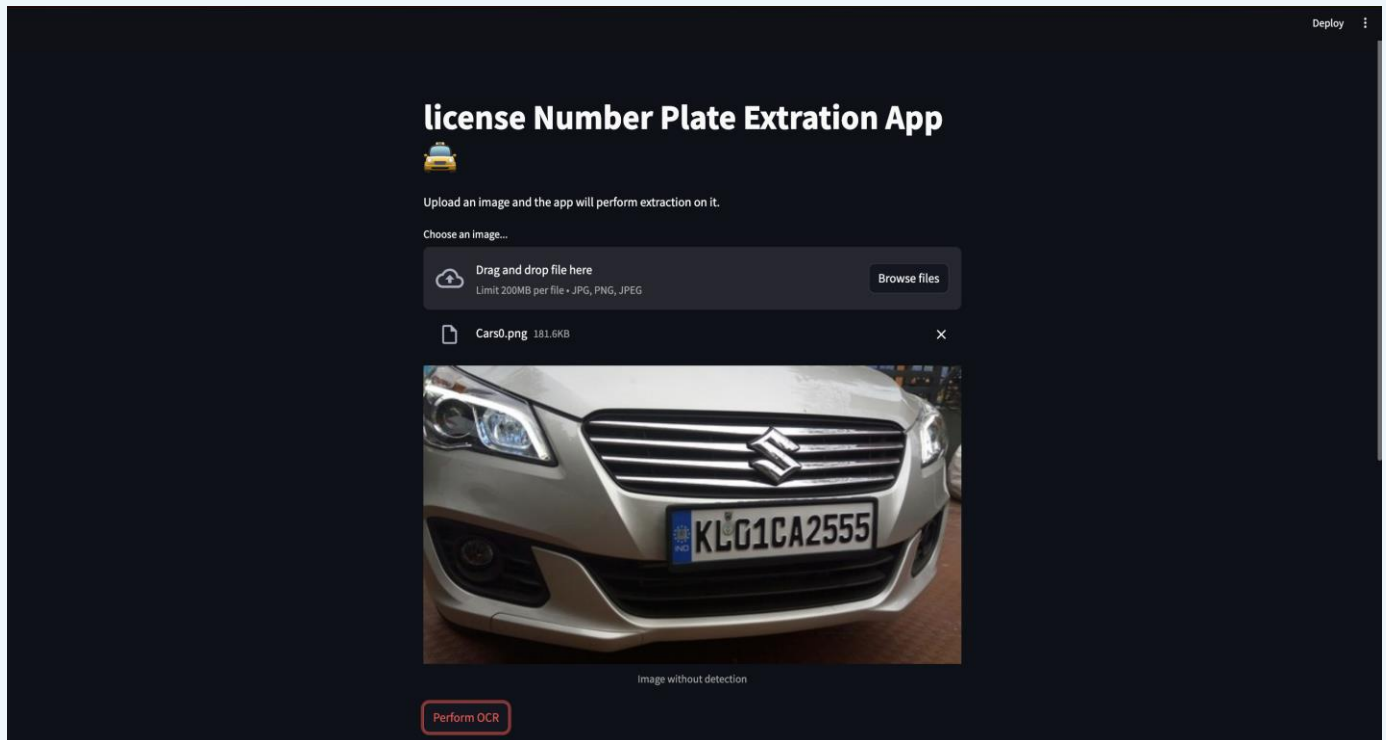
### Homepage:

The homepage is created using the Streamlit library in Python, providing a user-friendly interface for uploading images from local storage. Upon accessing the homepage, users are prompted to upload an image by simply selecting the file from their device. Streamlit's intuitive design simplifies the process, making it easy for users to interact with the application and initiate the image upload procedure seamlessly. This streamlined interface enhances user experience and facilitates efficient interaction with the image processing functionality of the application.



After uploading the image, users can click on the "Perform OCR" button to initiate optical character recognition (OCR) processing. This action triggers the system to analyze the uploaded image and extract any text present within it. By clicking on the "Perform OCR" button,

users prompt the application to process the image and display the recognized text, enabling them to access and utilize the extracted information for further actions or analysis.



After clicking on "Perform OCR," the model will execute the extraction process in the backend. It will analyze the uploaded image, detect the number plate, and display a rectangle box around it to highlight the identified area. Additionally, the system will present the extracted number plate text prominently, allowing users to easily identify and utilize the recognized information. This seamless process enhances user experience by providing clear visual cues and facilitating efficient access to the extracted number plate details.



In the backend database, which is an Excel file, both the image of the number plate and the corresponding number plate number are stored. This setup enables efficient storage and retrieval of data, allowing the system to associate each image with its respective number plate

information. By maintaining this structured database, the system ensures data integrity and facilitates seamless access to both image and number plate data for further processing or analysis as needed.

extracted_data	
Image	Number_Plate
[[[123 123 113] [122 122 112] [122 122 112] ... [155 151 148] [153 150 145] [153 150 145]]  [[123 120 111] [127 124 115] [126 123 114] ... [151 148 143] [150 147 142] [150 147 142]]  [[123 120 111] [121 118 109] [121 118 109] ... [149 146 141] [148 145 140] [149 146 141]]	KLG1CA2555