**User Manual:**

***Facial Recognition and Car Number Plate Identification of Vehicles for Out Door Environment.***

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**1. Introduction:**

Welcome to our Facial Recognition and Car Number Plate Identification of Vehicles for Out Door Environment Web Application! This user manual is designed to guide you through the steps of using the application effectively. Our application uses advanced algorithms to detect and recognize number plates and faces in images.

**2. System Requirements:**

Before you start using the application, ensure that your system meets the following requirements:

**Server:**

* Multi-core processor (2 GHz or higher)
* 8 GB RAM or more
* Adequate storage capacity (SSD recommended for faster data access)
* Reliable internet connectivity

**Client Devices:**

* Desktops, laptops, tablets, or smartphones
* Modern web browsers (Chrome, Firefox, Safari, or Edge)
* Internet connectivity

**3. Getting Started:**

**3.1 Uploading an Image:**

Open the web application in your preferred browser.

Click on the "Choose Files" button to select the image file containing the number plate you want to analyze.

**3.2 Starting Detections:**

After uploading the image, click on the "Start Detections" button.

The application will process the image, and the results will be displayed shortly.

**4. Detection Results:**

**4.1 Bounding Boxes:**

The uploaded image will be presented with bounding boxes around the detected number plate and faces.

Each bounding box will be labeled accordingly for easy identification.

**4.2 Text Recognition:**

Below the image, you will find a table containing the text detected in the number plate.

The cropped image of the recognized number plate will be displayed alongside the detected text.

**4.3 Face Detection:**

Faces in the image will be highlighted with bounding boxes.

The number of detected faces will be mentioned for your reference.

**4.4 Cropped Images:**

Images of the cropped number plates will be displayed in the results section.

This allows you to view the recognized number plate in more detail.

**5. Troubleshooting:**

If you encounter any issues during the process, please check your internet connection and browser settings. If the problem persists, refer to the FAQs or contact our technical support team.

**6. Frequently Asked Questions (FAQs):**

Refer to the FAQs section for answers to common queries. If your question is not addressed, contact our technical support team.

**7. Technical Support:**

For technical assistance or inquiries, please reach out to our support team at [abdullah.12744@zu.edu.pk] or use the contact form on our website.

**8. Conclusion:**

Thank you for choosing our Facial Recognition and Car Number Plate Identification of Vehicles for Out Door Environment. We hope this user manual has provided you with the necessary guidance to use the application efficiently. If you have any feedback or suggestions, we welcome them to enhance your user experience.