

VEHICLE RECOGNITION APP

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Introduction

Overview

The report commences with an introduction to the Vehicle Recognition App and its significance. It sets the stage for a detailed examination of the application's architecture, functionality, benefits, and future developments.

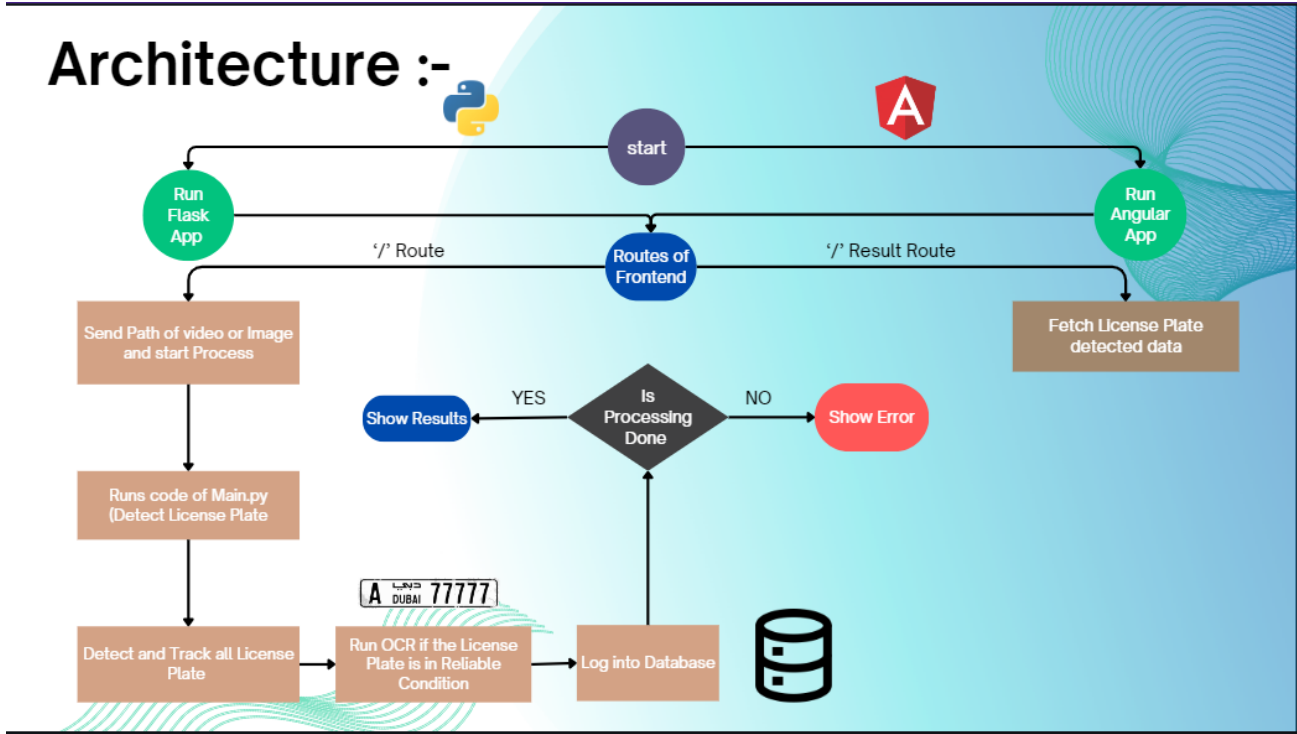
Application Overview

Key Functionality: The report provides an insight into the core functionality of the app, emphasizing its ability to process video streams, identify vehicles, and record registration numbers.

Application Architecture

- **Frontend and Backend:** We explore the application's architecture, distinguishing between the front end (Angular) and the back end (Python) components, along with the supporting technologies.
- **Database Integration:** The report highlights the pivotal role of MongoDB as the registration database for the application.

Architecture :-



Benefits of the App

This section presents a detailed analysis of the benefits derived from the Vehicle Recognition App, including enhanced security, real-time monitoring, accurate record-keeping, efficiency, and scalability.

Accuracy Results

The report showcases the results of accuracy testing, underlining the impressive recognition rate achieved by the application. It describes the methodology and metrics used in the assessment.

Ground Truth	PP	WO PP	Matching Percentage
DL1CS2797		FUL IC527971	80%
HR81B2177		HR81821711	90%
HR26DN6791		Hr260h6791	80%
HR98C5644		HR 980,56ky	80%
UP84AL6752		FUPBG4AL6752	80%
HR26EY8163		822seyg163	50%
DL8006110			
DL5CE5883		DL SCE590	50%
HR26FA8503		HR26F48503	100%

Future Developments

Enhancements: The report outlines potential future developments and enhancements for the application, including integration with access control systems, machine learning improvements, and advanced reporting and analytics.

Conclusion

The report concludes by summarizing the key points and expressing enthusiasm for the project. It underscores the application's potential to set new standards in security and access management.