

ANPR CENTRALISED CONTROL ROOM

The ANPR software has been implemented with three different venders of Kerala Police in various districts. ANPR software presents live monitoring and law enforcement through Automatic Number Plate Recognition (ANPR) system at the District Control Rooms. At present the districts have no facility to monitor vehicles that is entered into neighboring districts. Now, it was decided to setup a state control room for vehicle search by integrating the ANPR camera databases of different locations in our state.

ANPR Centralised Control Room intends to present live monitoring and law enforcement through Automatic Number Plate Recognition (ANPR) system at District and State levels. The system will be implemented by fetching the processed data through API into a single DB and the application will be hosted into SDC.

Proposed System

The proposed application Dash Board contains the following things

1. Hotlist Management
2. User Management
3. Live Monitoring Management
4. Search Management
5. Statistics Management
6. Violation Management
7. Data Management
8. Location Management
9. Group Management

1. Hotlist Management

I. Register Hotlist Vehicle

A. New Category

- ❖ SL No.
- ❖ Category (Theft, Snatching, VIP etc.)
- ❖ Icon
- ❖ Vehicle Details
 - ✓ LP Number
 - ✓ Vehicle Category
 - ✓ Make

- ✓ Model
- ✓ Colour

- ❖ Owner Details
- ❖ Other Details
- ❖ Description

- B. Delete Category
- C. Refresh Category
- D. Import Category

II. Hotlist Record

- ❖ Search
 - SL No.
 - LP Number
 - Make
 - Model
 - Colour
 - Registration Date
 - Modification Date
 - Category
 - User
 - Description
 - FIR
 - Location
- ❖ Add Record
- ❖ Edit Record
- ❖ Delete Record

III. Hotlist Tracker (Alert)

A. Live Pop-Up alert

- ❖ Google map alert using live location of a Hotlist Vehicle.
- ❖ Table alert
 - Hotlist Number
 - Live photo
 - Date
 - Time

- Location

B. Search (Tracked Vehicle in Hotlist)

- ❖ Date From
- ❖ Date To
- ❖ LP Number
- ❖ Search button
 - SI No.
 - Registration Number
 - Number Plate Photo
 - Time
 - Category
 - Location

2. USER Management

I. Add User

- ❖ Personal details
 - Personal
 - First Name
 - Last Name
 - Address
 - City
 - Pin Code/Zip Code
 - Phone No
 - Mobile No
- ❖ Privileges
 - User Management
 - ✓ Modify user Information
 - Vehicle Management
 - ✓ Add vehicle
 - ✓ Edit vehicle
 - ✓ Delete vehicle
 - Disk Management
 - ✓ Backup
 - Challan Management
 - ✓ Export file
 - ✓ System Challan
 - ✓ Violation edit Challan

- Location Management
 - ✓ Location Management
- Category Management
 - ✓ Add category
 - ✓ Delete category
 - ✓ Edit Category
- Violation Access
 - ✓ Free left
 - ✓ No helmet
 - ✓ Red light
 - ✓ Etc.

❖ Location

❖ Password

- S. No
- Login ID
- Employee ID
- First Name
- Last Name
- Group

II. Edit

III. View (single user)

IV. Details

V. Search a user.

3. Live Monitoring Management

I. Search Location

❖ Live Video

- Play live video

❖ Live Vehicle Details Table

- Sl. No.
- Registration Number
- Number Plate photo
- Time
- Violation Type

❖ Select a Field from Table

- Photo
- Registration number
- Date
- Time

- Location
- Vehicle direction
- Transaction ID
- Make
- Colour

4. Search Management

I. Search Page

- ❖ Registration Number
- ❖ Digital Flips
- ❖ Select Location
 - District
 - Camera location
- ❖ All Camera Selected
- ❖ Event Data From
- ❖ Event Data To
- ❖ Speed Less Than
- ❖ Speed More Than
- ❖ Event Time From
- ❖ Event Time To
- ❖ Select Violation
- ❖ Time Since Red
- ❖ Vehicle Type
 - All
 - 2- Wheeler
 - LMV
 - Auto
 - HMV
- ❖ Category
 - All
 - Unknown
 - Register
 - VIP
 - Stolen
 - Theft
- ❖ Make
 - All
 - Audi
 - BMW

- Chevrolet
- Datsun
- Fiat
- Ford
- Honda
- Hyundai

❖ Color

- All
- Orange
- Purple
- Green
- Yellow
- Red
- Grey
- White
- Brown
- Black
- Blue

II. Report Page

- ❖ Sl. No.
- ❖ License Plate
- ❖ Registration Number
- ❖ Time Stamp
- ❖ Camera Location
- ❖ Violation Type
- ❖ Violation Description
- ❖ Speed Value
- ❖ Category
- ❖ Make
- ❖ Logo
- ❖ Vehicle Type
- ❖ Colour
- ❖ Action

III. Transaction Review

- ❖ Sl. No.
- ❖ LPR Image
- ❖ License Plate
- ❖ Registration Number
- ❖ Time Stamp

- ❖ Camera Location
- ❖ Violation Type
- ❖ Violation Description
- ❖ Speed Value
- ❖ Category
- ❖ Make
- ❖ Logo
- ❖ Vehicle Type
- ❖ Colour
- ❖ Action

5. Statistics

- I. Violation Summary
 - ❖ Location
 - ❖ From Date
 - ❖ To Date
 - ❖ Automate (1 day, 1week, 1 month,3 months,1 year)
- II. Violation Distribution
- III. Violation Stat
- IV. Transaction Stat
- V. Challan Stat
- VI. Speed Stat
- VII. Vehicle Stat

6. Violation Management

- I. Sl. no.
- II. Violation Name
- III. Violation Code

7. Data Management

- I. Export file
 - A. Event date From
 - B. Event Date To
 - C. Event Time From
 - D. Event Time To
 - E. Include Video
 - F. Decrypted Files
 - G. Select Location
 - H. Select Camera
- II. Disk Storage

- A. Id
- B. Occupancy
- C. Free
- D. Total
- E. Show Graph

8. Location Management

- I. Search Location
- II. Location Dash board
 - A. Camera Details
- III. View Location Details
 - A. Node Name
 - B. Node Level
 - C. Email
 - D. Contact Number
 - E. Office Address
 - F. Assign User List

9. Group Management

Manage Group and Privileges.

10. Mobile Application

ANPR Mobile App is a digital initiative to easy access to all services available in the Web Application. This should be work as mini version of web applicaton. This app enables authorized personnel to access vehicle information instantly from live location through his Mobile Phone. A vehicle search is done by location, time, date, vehicle category, vehicle make, colour, vehicel type, vehicle number etc. The user having a privilage to hot list a vehicle. Vehicles in the hot list will be shown with popup alert if the vehicle passes through any of the camera locations in the State. This app empowers Permitted Officers with instant access to a vehicle information if the vehicle passes through any of the camera locations in the State.
