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**Synopsis For Parivahan Application**

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## **1. Objective of the project:**

- The app has two UI dashboards. One for general users i.e. vehicle owners and another for admin users i.e. traffic police and vehicle registration officers.
- Admin users can view, modify, add or delete any vehicle details entry. An admin user can also add another admin user.
- General users can only view specific vehicle details by searching via vehicle registration number.
- The app shows details like registration number, owner name, type of the vehicle, registration date, insurance status and pollution status of the vehicle.

## **2. Introduction:**

The Parivahan application is introduced to operate searches related to RTO-issued vehicle registration numbers. Their facilities are accessible across every Indian state. The National Informatics Centre has planned this online platform to realise the digitalization motive of the Indian Government.

The services are extremely beneficial for fetching the vehicle data regarding the registration certificate, the car owner's insurance authenticity. Police accept digital evidence as a valid form of proof. Both Android mobile users can access this application.

## **3. Scope**

The Parivahan app has thus gained widespread popularity as it comes with many services. We have shared the details on how you can conveniently sign up using your personal device to create an individual account on the Parivahan platform.

## **4. Literature Survey**

There is no such research for our reference. We refer to some research papers but in all papers there is information about how we track or get the vehicle information by its registration number. In some research paper the author also talked about how we can get the vehicle registration number through image processing.

There are several websites from where we can track the vehicles and get the information very easily. Mostly websites are the Govt. websites, some are private websites where we have to pay some money then we get full info.

- a. [mis.mptransport.org/MPLLogin](http://mis.mptransport.org/MPLLogin)
- b. [vahan.nic.in](http://vahan.nic.in)
- c. [drivespark.com](http://drivespark.com)
- d. [findandtrace.com](http://findandtrace.com)

There are so many other websites also present of state govt. and as well as of central govt. websites. In the above point "II" Govt. also mention the problems of privacy and data protection looms large over such sharing.

## **5. Existing System and Proposed System**

In this way when passing his or her vehicle number, insurance of that vehicle, etc. are taking a lot of time. And nowadays each and every person is in a hurry so by analysing and

considering these problems we are developing one android application which overcomes this problem and gets a solution in an efficient way.

If user wants to pass his vehicle number then also it takes time in old system but here we provide facility that user he buy new vehicle he should have to first register on our site and fill all the required and importance details of vehicle and we gives this details to RTO office directly so that this work will get complete within less time and the user get his number template easily.

The administrator is provided for authentication purposes as well as it handles all the databases of RTO and manages all the processes. pass the vehicle registration number, etc. Facilities are provided by the administrator.

## **6. Technology Used:**

- Java - A general-purpose, concurrent, strongly typed, class-based object-oriented language.
- SQLite Database for Android - For storing data
- FancyToast-Android - A library that takes the standard Android toast to the next level with a variety of styling options.
- Droid Crypt - A simple Android Library. Very easy to use this Android library for performing encryption to String with AES encryption, it can be used for saving to SharedPreferences.

## **7. Limitation**

- The user experience is superior owing to the simplified app interface.
- To check the specification of a particular vehicle you have to enter the RC number. Please note that this activity does not mandate you to be a registered user of this facility.
- The mParivahan application has been designed keeping in mind both iOS and Android device users.

## **8. Future Enhancement**

This system is also helpful for Traffic police. The traffic police to be more effective in controlling repeat violators of traffic rules. Traffic Police have the database of registration numbers as well as the history of driving licence holders. When a traffic policeman would enter the details of any vehicle caught violating traffic rules, it would give the complete details of that particular vehicle including the name and address of the owner and the make, model and other details of the vehicle. Not only this, the details of the driving licence holder would also be available. Therefore enhanced penalties would be imposed for repetition of violation of traffic rules. Fake registration plates, if any, would be detected immediately.