

# Vehicle Information System

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**Abstract**— An application which will facilitate the user for not worrying about carrying the documents of their vehicle. We can digitalize all documents which are taken care of with so much efforts and hard work. This application will make sure you have all the documents with you every time anywhere wherever you go. Different documents like License, PUC, RCBook, Insurance papers can be easily handled. This app can help you not to carry all the documents with you every time you drive a vehicle. You can just use the mobile app which contains all the documents. There is no fear of losing these documents as these are digitalized. Different documents that can be used are License, PUC, RC Book, Insurance papers. If any other person except the owner drives the vehicle and uses the application for verifying the documents then a message alert will be sent to the owner of the vehicle.

**Keywords**— Energy meter, GSM technology, Microcontroller AT89S52, Prepaid Card, Relay.

## I. INTRODUCTION

Mobile Applications (commonly referred as “apps”), are considered to be one of the fastest growing trends in Information System industry. Users can enjoy various miscellaneous features about a large variety of Apps. As a result, mobile Applications present a more popular interface with business systems than Web applications and websites. Similar to a computer, a mobile operating system provides the primary execution environment for applications on the phone. The upcoming technology trends have enabled innovative, exciting, and compelling mobile applications to become widely available, from gaming to multimedia to social networking. The most prominent one’s are: Apple iOS, Google Android, RIM Blackberry, Microsoft Windows Phone, etc.

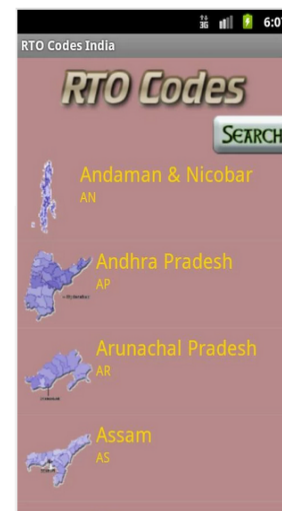
This report focuses on mobile application development for Google’s Android OS, a hugely popular open-source platform based on the Linux-kernel and Java development environment. Android market is the online software store developed by Google for Android based devices. An application program called “Google Play” is preinstalled on most Android devices and allows users to browse and download applications published by third party developers, hosted on Android Market.

### A. Literature Surveyed

RTO:Regional Transport Office (RTO) is an Indian government bureau which is responsible for the registration of vehicles and the issue of Driver's Licenses in India.

All motorized road vehicles are tagged with a registration or license number in India. The License plate (commonly known as number plates) number is issued by the District-level Regional Transport Office (RTO) of respective states. This Application will help a traveler or passenger in many

ways and even in the case of a Police Investigation of an accident or vehicle-related crime, witnesses usually remember the initial Area Code letters it is then quite simple to narrow down suspect vehicles to a much smaller number by checking the Database without having to know the full number. It is also required during the sale of a Vehicle and transfer of its Ownership. Also this Application helps you to find your own city, district or state registered vehicle in a picnic or a tour spot. The Application also helps us to find the RTO Offices in India.



App Contains All Useful INDIA CODES In Single App. It Uses Offline Too Offline Access To, STD CODE PIN CODE VEHICLE NUMBER PLATE CODE (RTO CODES) LARGE DATABASE. It Help You To Find STD Code, POSTAL Codes, VEHICLE No PLATE Codes Of India.37, 062 Area Codes. 2571 STD Codes.

### B. Objectives

An application which will facilitate the user for not worrying about carrying the documents of their vehicle. We can digitalize all documents which are taken care of with so much efforts and hard work. This application will make sure you have all the documents with you every time anywhere wherever you go. Different documents like License, PUC, RC Book, Insurance papers can be easily handled.

### C. Problem Statement

“RTO Android App “ is a very unique Mobile App that will be providing the Owners details with is vehicle detail to RTO Officers using its Smartphone contain “RTO Android App”. Since mobile phones especially smart phones are used on a large scale in recent times this application tends to serve majority of the people. This app will be very handy in use and is also user friendly.

## II. PROPOSED SYSTEM

### A. Methodology Used

The methodology used in designing and developing this Application is through Android and basic PHP. The database being used is SQL for the records and track of the Owner Vehicle Detail.

### B. Interface Design

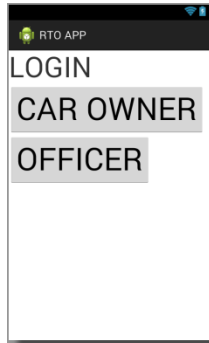


Figure 1: Interface Design.



Figure 2:User Login Interface.

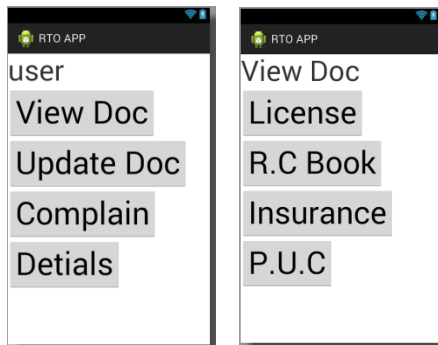


Figure 3:User Login Interface.

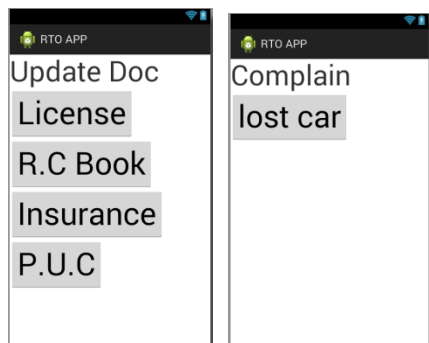


Figure 4:User Login Interface.

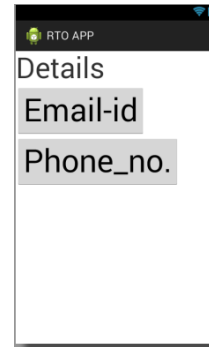


Figure 5:User Login Interface.

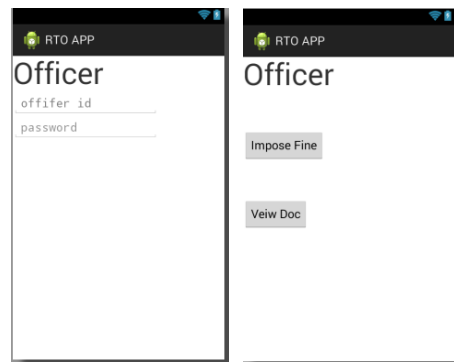


Figure 6:Officer Login Interface.

## III. REQUIREMENT ANALYSIS

The basic requirements for the design of the RTO Based Android app are:

- Every user should have their own identity
- User can update his/her personal information and can view the notice etc.

### A. Functional Requirement

#### 1) User Interface

- Login page:  
This page provides the pre-registered users to gain access of the app and place order. The login page requires the user to enter the username and password.

- Vehicle Profile:  
This page provides the vehicle Documents like PUC, RC BOOK, Insurance Papers.

- User Profile:  
This page provides the owner detail like ID, Phone no.

#### 2) Hardware Interface

- Android based device.
- Device should have a good internal memory.
- Touch screen interface is required .

#### 3) Software interface

- Android 2.3+ platform
- Android 2.3 emulator

- The user's device should be capable of internet connectivity, such as Wi-Fi, 3G, etc.
- XAMPP

### B. Non-Functional Requirement

#### 1) Performance Requirements

The primary performance requirement is speed of the network i.e. GPRS. App functions smoothly in presence of a strong and steady internet connection.

#### 2) Safety Requirements

There are no safety requirements with this application.

### IV. SCOPE

An application which will facilitate the user for not worrying about carrying the documents of their vehicle. We can digitalize all documents which are taken care of with so much efforts and hard work. This application will make sure you have all the documents with you every time anywhere wherever you go. Different documents like License, PUC, RC Book, Insurance papers can be easily handled

### V. CONCLUSION

In recent years the major advancement in mobile technology has led to the development of smartphones and in turn it has led to the rise of various miscellaneous applications serving different utilities. This RTO application aims to serve the people with digitalized documents like PUC, License, RC Book for easy use as these documents can be lost. This process intends to help the customer in saving their time if these documents are misplaced somewhere and helps in tracking out thefts through location based service.

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