Mobile App for Traffic Police

Prof. Dhumal T.A[1], Miss. Deshmane V.U[2], Miss Jadhawar P.S[3], Miss.Mohite S.M[4], Miss.Chakor P.S[5]

Assistant Professor, CSE Dept., JSPM'S BIT COE Barshi, India[1]

Student, CSE Dept., JSPM'S BIT COE Barshi, India[2]

Abstract: With the increasing importance of corruption has become major factor to be considered as a result the number of vehicles and the rapid development of population are growing in our everyday life. Existing process of RTO is very time consuming process. Traffic management is a serious issue confronted by the city. The RTO employees having lot of work burden of making registration, license issue, transfer etc. which required lot of paper work. As a result people cannot get things done in right time. Since the proposed framework is digitalized and android based, it will serve as handier instrument and helpful option implies for traffic. And android application is provided to traffic police to retrieve vehicle information, fine details.

Keywords: Android App, Mongo DB database, RTO, Electronic mail, Potman.

1. INTRODUCTION

In this Project we have different modules in which they store different information and having different service. As the number of vehicles increasing on road the load on traffic police increasing day by day. Their work has increased. Along with the increasing number of vehicles, the related problem has started to rise which include violation of rules, identifying the vehicle owners etc. as the number of rule violation increase, the fine collection also increase. Issue of information about license, which include application form and other information it helps for public awareness. Provide mail alert for user and also registrations of complaint. The vehicle owner upload vehicle document and it will be stored in the database. Advantages of this application are: considerably reduced the corruption in transport department. In case of accident helps to identify the injured person and also help to find out stolen vehicle effectively.

1.1Existing System:
The current system that is used for the fine collection system has many flaws and loop holes in it. There is need to overcome this loop holes in the existing system.

Existing system makes the use of pen and paper that is a challans that are given to the offender on breaking the traffic rules. As the system consist of paperwork the papers are mostly gets damaged or tempered. Due to this hard time for RTO office to maintain the proper records. During patrolling if an offender commits a crime and is caught it is difficult to find out if the license is fake or real and in the same manner it is difficult for common people to find out if the officer who is pretending to be an official authority is fake or real one. There are many cases where the user runs away after being caught and the police person can't take the appropriate action on the offender. Even there are many cases where the vehicles possess fake number plate and the police officers can't recognize it. So to overcome this loophole in the existing system we have proposed a new system to help us to solve the issues.

2. LITERATURE SURVEY

Paper 1:
Document the driver's data will be fetched from RTO server. This RTO application aims to serve the people with digitalized documents like license, vehicle and insurance for easy use as these documents can be lost. This process intends to help the customers in saving their time. If these documents are misplaced somewhere and helps in tracking out thefts through location based service.

Paper 2:
We all know existing RTO office work is how much lengthy as well as very time consuming process. In many villages there is only one day camp of RTO and the people who want driving license they should remain present on that day. If they missed that day then they have to go to the district RTO office. So it is disadvantage because that may be not able to go or he having work on that day.so that here we are developing one web application which provides easiest and efficient way for RTO works like making driving license, insurance of vehicle, registration no of vehicle etc.
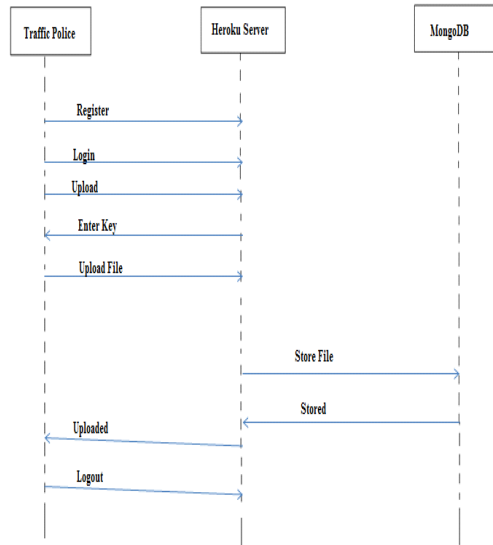
3 .FIGURES AND TABLES
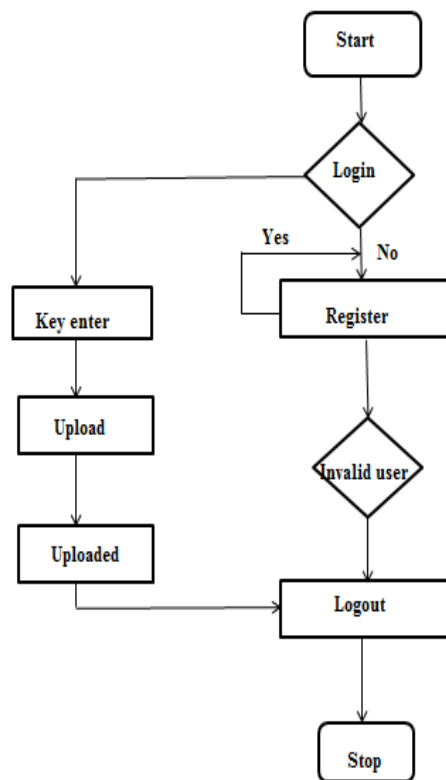

Figure 3.1 Sequence Diagram

Figure 3.2 Data flow Diagram

Sr. no	Test Case	Desired Output	Obtained Output
1	Upload Data	Data Upload Successfully	Upload Successfully
2	Download Data	File Download Successfully	Download file Successfully
3	Admin Login	Login Successfully	Login Successfully
4	Registration	Registration Successfully	Registration Successfully
5	Storage Service	Store Data	Data store successfully

Table 3.3: Test Case specifications

4. SYSTEM ARCHITECTURE

Large systems are always decomposed into subsystem that provide some related set of services. The initial design process of identifying these subsystem and establishing a framework for subsystem control and communication is called architecture design and the output of these design process is a description of the software architecture.
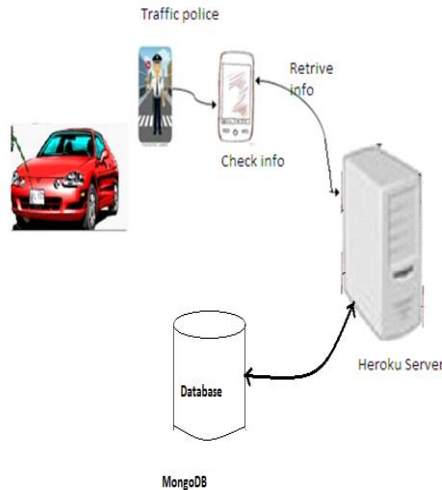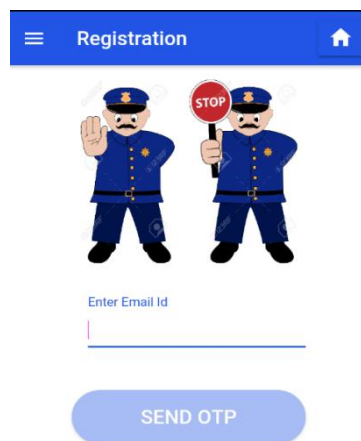

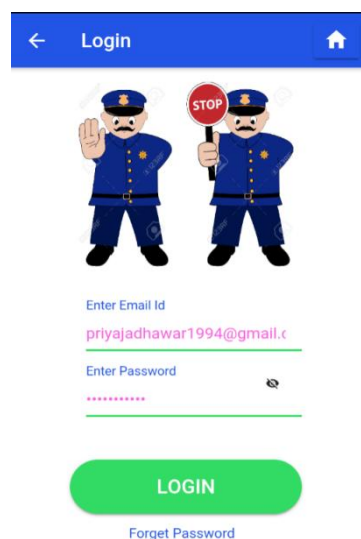Figure 4.1: System Architecture
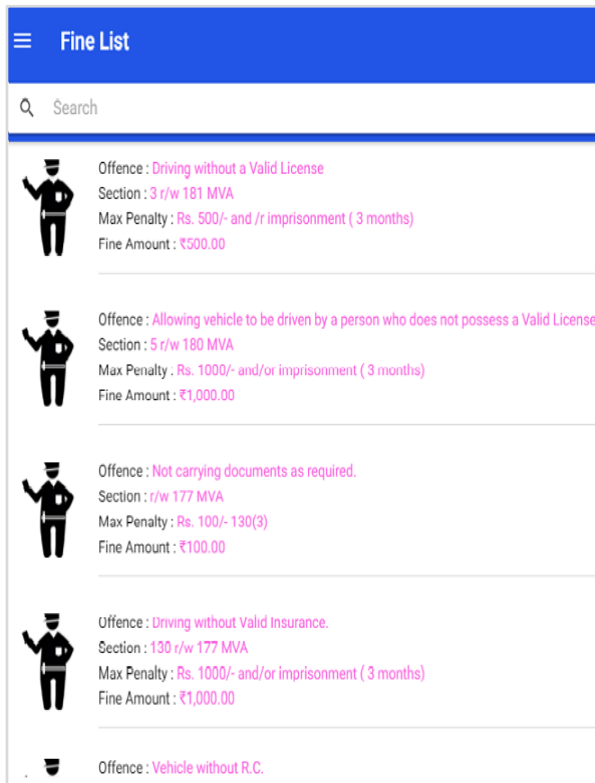

Figure 4.2: Registration

Figure 4.3: Login
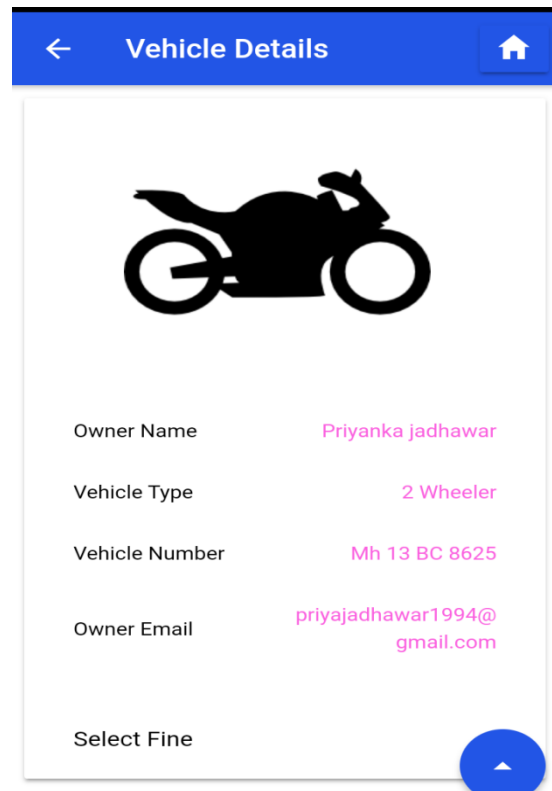
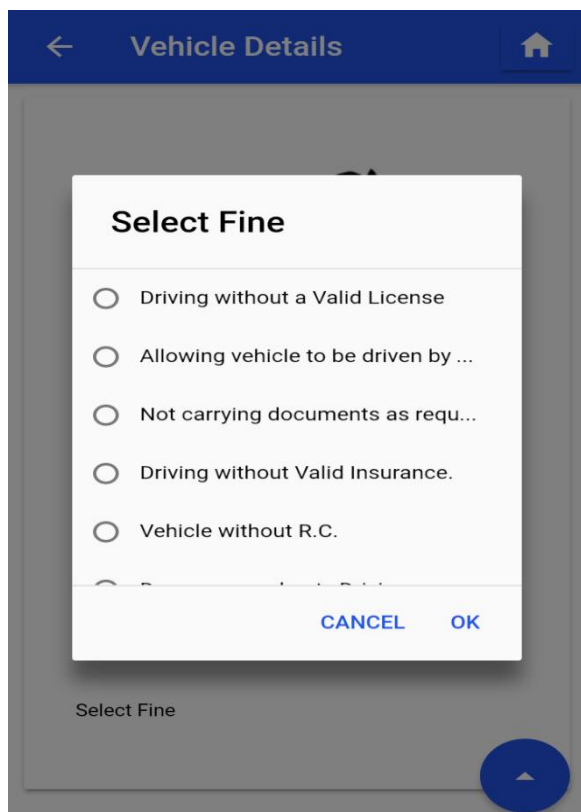Figure 4.4: Fine list
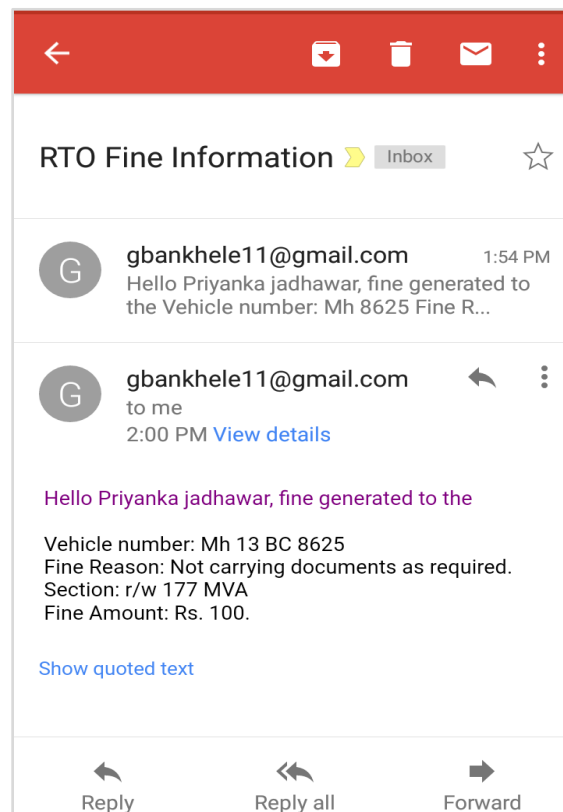

Figure 4.5: Vehicle Details

Figure 4.6: Fine Select

Figure 4.7: Email sent

5. PROPOSED SYSTEM

"The proposed System is aimed to automate the major processes in the RTO (Regional Transport Office)". The traffic police has right to register and add traffic police to the system. Server provides login id and password to every authentic traffic police officer the fine details can be seen on server. Officer can retrieve complete data of user from it. The server consist of database manager which keeps all the records of the user who violated the rules also keeps complete details like vehicle number.

App is developed with all the functions required for traffic police for fine collection. Traffic officer will select fine rule violated and generate fine for user. The client will collect the fine generated by server and will update the details on the server. The client or a citizen will pay the fine then.

6. CONCLUSION AND FUTURE SCOPE

The applications of traffic information have become more popular with improvement of the condition of the wireless network, mobile devices and so on. It also can get the real time traffic information which improving the efficiency of traffic service and management. System provides faster way of information collection for traffic police and also secure method for citizen. It also maintaining the complete information about the user who committed the crime and fine generated. Here we are developing such type of module which helps to reduce RTO work manually and it helps to saving time. Considerably reduce the corruption in transport department.The Operating System of smart phone is android which helps in interfacing with embedded system. This is an effort to automate the current system in fine collection System. Therefore enhanced penalties would be imposed for repetition of violation of traffic rules.Fake registration plates, if any, would be detected immediately.

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