



Vehicle Service System with Road Side Assistance

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Abstract — These Applications reduce the Paper work of the Vehicle Service Process. Application will contains the Basic modules like login and Make Registration to use the Application. But, the unique Concept in our Application in reduces the Paper work process In Vehicle. And Make to solve the all Queries regarding the Services of the Car and other Vehicle. This Application will provide the Facility to the user end, using User will easily to find out the Process of the Service of the car and make to solve the Doubts regarding the Service of the Car. Application Will Provide the Real time Response to the User end and user will show the real time process of the car. Application will provide the Push notifications to the User and user will receive the car at a time. Using these application user will manage the car Services and manage the service Charges of the Car. Application will automatically generate the Total Amount of the Service and total payable amount into the Application with all details. So, it is the base part of the Application. It is the basic idea of the application.

Keywords: - Online Vehicle Service, RSA (Road Side Assistance), Nearby Service Station, Online Service Tracking, Tips For Vehicle, Nearby Fuel Station.

I. INTRODUCTION

Vehicle service application is a system which allows owner to register himself in system and login in system. After login owner will be able to check status of his car. But first owner has to register his car in system with picture of RC book. Then owner will write list of problem which will be verified by issue verifier. Manager will able to see report about car which will contain review and feedback about car. Admin will verify user based on their document. Admin will also fill car model details in system and register service station in system. This Application will provide the Facility to the user end, using User will easily to find out the Process of the Service of the car and make to solve the Doubts regarding the Service of the Car [3]. Application Will Provide the Real time Response to the User end and user will show the real time process of the car. Application will provide the Push notifications to the User and user will receive the car at a time. Using these application user will manage the car Services and manage the service Charges of the Car. Application will automatically generate the Total Amount of the Service and total payable amount into the Application with all details. So, it is the base part of the Application. It is the basic idea of the application.

II. VEHICLE SERVICE APPLICATION WITH ROAD SIDE ASSISTANCE

User has to register himself in vehicle service application and then register his/her car in application [2]. After login he/she will be seeing list of service station. If he wants to make a service request for particular car then he has to click on service station in which he wants make a service request then he will be redirected to list of car then he has to click submit issue of that car then he has to fill issue. Issue verifier will verify those issues and accept or reject issue. After issue is accepted then manager will be able to see list of cars which has been requested for service. Then manager will manager allocate work. Then manager will update status of service request and car owner will be able to see service request status. Once service request is rectified then manager will notify car owner about car service via email. And then car owner will select payment mode which are following 1) on hand 2) Online Payment and make payment. Then car owner will come to service station and take car home. Car owner will be able to make a request for road side assistance while he is traveling in remote areas where reaching garage is not possible. In that case he can request for assistance using list of service station screen. For that he has to click on need assistance of service station. Car owner will be able to set reminder of important documents expiry date.

Let's say he has licence which is expiring on specific date, he will go to reminder from menu and write title of document, description, date [4]. And when that specific date comes user will be given alert. Main advantage of this feature is if he adds reminder using our application, reminder will be also set to inbuilt reminder application. Car owner will be able to see tips and tricks for enhancement of vehicle life span as well as maintain vehicle health. It will be very helpful for new drivers as he will not be aware of basic things he needs to take care to maintain vehicle health. Car owner can also search for nearby fuel station, let's say we are traveling to new city and we are not aware of petrol pump location in such scenario this feature will be useful [1] [5]. Car owner can also see list of service station in which he can make a service request. He can also see rating of service station. He can get address of service station. After login in vehicle service application manager will be able to see list of cars that have been verified by issue verifier and not in service. Once he will allocate car service work then this car will be shown in "In Progress" tab. After completion of service request, this car will be shown in "Completed" tab. After login, issue verifier will see list of cars that has been requested for service. Issue verifier will check service request and accept or reject issue.

III. PROPOSED METHODOLOGY

3.1. System Flow



Figure 3.1 System Flow

After registering him/her, user will login to use system functionality, user will make service request and that service request will be verified by issue verifier after issue verifier will verify and confirm that service request can be processed further. Manager will allocate that service request work. Once service request is completed feedback will be given by user. User can also find nearby fuel station and read tips and tricks. User can also raise request for road side assistance which will be handled and resolved by worker of that service station in which request has been made. User can also set reminder so that he never miss any deadline or renewal of important documents.

When Car owner will be traveling in remote area he will be able to make a request for road side assistance. In remote area where reaching garage is not possible, in that case he can request for assistance using list of service station screen. For that he has to click on need assistance of service station. The GPS (Global Positioning System) will be used to find out and list of nearby fuel station.

IV. RESULTS

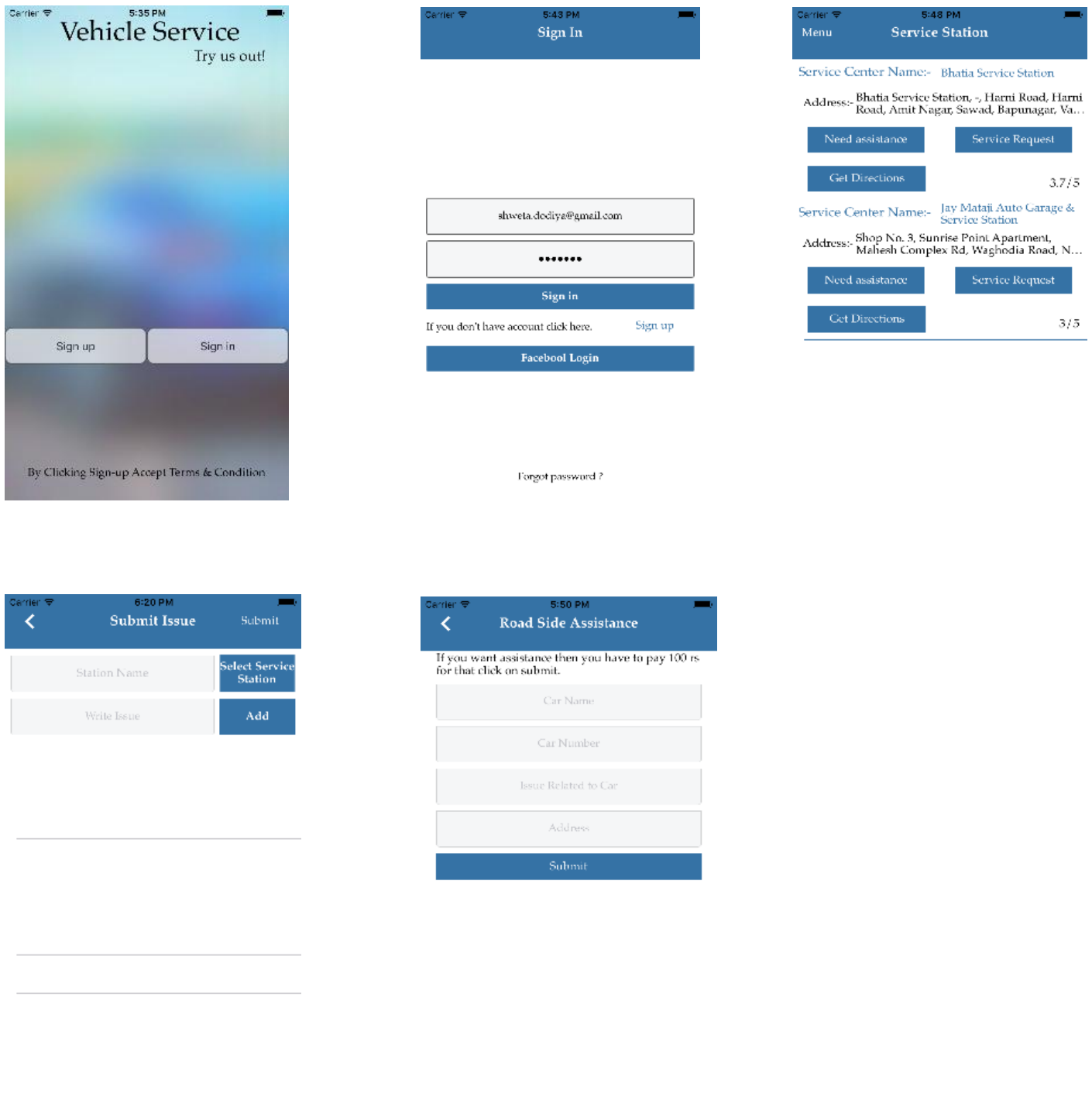


Figure 4.1 Results

V. CONCLUSION AND FUTURE WORK

Application will give the status related to the service which is in progress the service station and also able to add the new issue related to car. User will also see the past history of car service which has been done. He can also add the reminder related to important dates of the documents. User can see the tips & trick which can help him to maintain the vehicle. We will add live support for inquiry. We will also add one another module as “Worker” in our application. We will allow user to cancel issue if issue is not yet taken by worker to rectify.

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