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# Android Based KTM Bike Management System Using IoS

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**ABSTRACT:** Android Based “KTM Bike App” for vehicle application is used to develop the communication between employees and customer. The application will help Employee to direct communicate with customer and will display the overall progress of the customer vehicles. It will send notification to the user or customer about the upcoming services. And also, will act as a guide for the customer.

It will have two different modules- One will be for the employee to update the information about the customer’s vehicle and will be for the customer to view the data. This project will be used for the vehicle companies’ purpose to keep track about the progress of each customer vehicle. Similar to the feature of the service alerts, this feature is exclusive to the vehicle parts. Based on frequency of use, last modification, etc.

## I. INTRODUCTION

This “KTM Bike App” Android base application is developed for managing all the data related to vehicle showroom, customer vehicle, license renovation, general checkup, etc. here employee add customer vehicle details or modify details. This feature is highly valuable for auto makers. Push notification alerts are used to inform customers about license, renovation, etc. this project is much more profitable and untouched.

## II. SCOPE OF THE PROJECT

To improve the Customer service in field of Automobile industries for student’s by providing them proper guidance and support, so that every Customer can tracking in in their life and his KTM Vehicle Status and Condition. The application tries to provide information of finger tips and update Customer from service Station Employee and Management. It also shows location of nearby Dealers and service station. It shows notification for Service pending on customer mobile App.

## III. PROPOSED METHODOLOGY

It will have to different modules- One will be for the employee to update the information about the customer’s vehicle and will be for the customer to view the data. This project will be used for the vehicle companies’ purpose to keep track about the progress of each customer vehicle. Similar to the feature of the service alerts, this feature is exclusive to the vehicle parts. Based on frequency of use, last modification, etc.

## Proposed Architecture

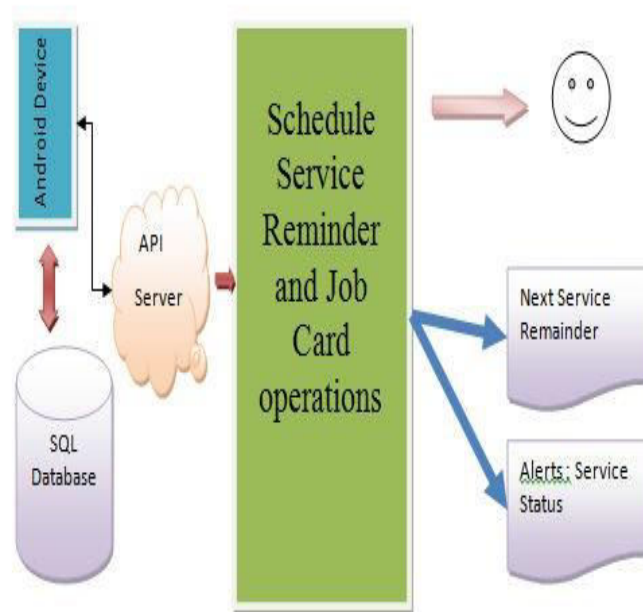


Figure 1: Proposed Architecture

### 1. Project Modules:

It will have to different modules- One will be for the employee to update the information about the customer's vehicle and will be for the customer to view the data. This project will be used for the vehicle companies' purpose to keep track about the progress of each customer vehicle. Similar to the feature of the service alerts, this feature is exclusive to the vehicle parts. Based on frequency of use, last modification, etc.

### 2. Input and Output:

#### Input:

- 1) Customer Master
- 2) Service Details
- 3) OrderBooking

- #### Output:
- 1) Alerts
  - 2) Invoice Printing
  - 3) SMS – Remainder
  - 4) Reschedule remainder

### 3. System Architecture:

An architectural diagram is a diagram of a system that is used to abstract the overall outline of the software system and the relationships, constraints, and boundaries between components. It is an important tool as it provides an overall view of the physical deployment of the software system and its evolution roadmap.

Method of operation is using Android Smart Phone. Information is update android phone device and in next data transmitted using API is Application Program interface in central hosting on server .Net and is Server 2010 and Apical is given using retrofit technology Retrofit is a REST Client for Java and Android. It makes it relatively easy to retrieve and upload JSON (or structured data) via other a rest webservice. In Retrofit you configure which converter is used for the data serialization. Typically for JSON you use GSON, but you can add custom converters to process XML or other Retrofit uses the OkHttp library for HTTP requests.

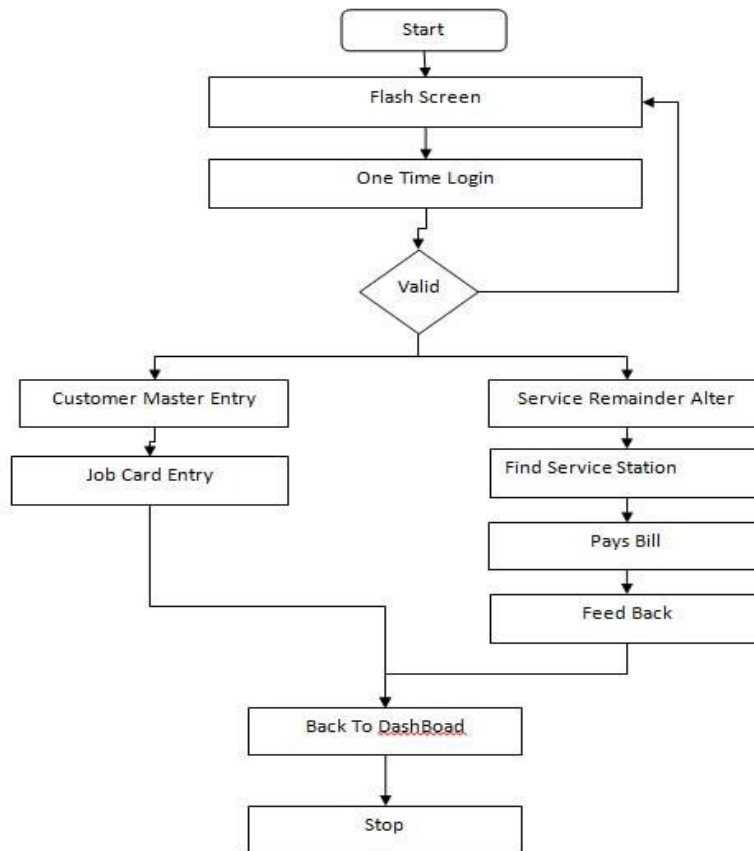


Figure 2: Flow Chart

**The status of the vehicle can be updated to the customer.** Send automated SMS/ email on Status of the vehicle. Helps the customer be informed proactively

- Provides First Hand Job-Related Information-Automotive Job card provides first hand information about a job, the materials required, the skill set that is required can all be analysed from the job card.
- Fit – Job Analysis helps them understand what type of employee will be suitable to deliver a specific job successfully.

1. Vehicle Service Center
2. Care Service Center
3. Paper Less Office

#### IV.ADVANTAGES

- Provides First Hand Job-Related
- Information-Automotive Job card provides first-hand about a job, the materials required, the skill set that is required can all be analyzed from the job card.
- Helps in Creating Right Job-Employee
- Fit – Job Analysis helps them understand what type of employee will be suitable to deliver a specific job successfully.
- Helps in Establishing Effective Hiring.
- Guides through Performance Evaluation and Appraisal Processes – Job Analysis helps managers evaluating the performance of employees by comparing the standard or desired output with delivered or actual output. On these bases, they appraise their performances. The process helps in deciding whom promote and to when. It also

managers in understanding the skill gaps so that right person can be fit at that particular place in order to get desired output.

- Helps in Training & Analyzing.

## V. RESULTS

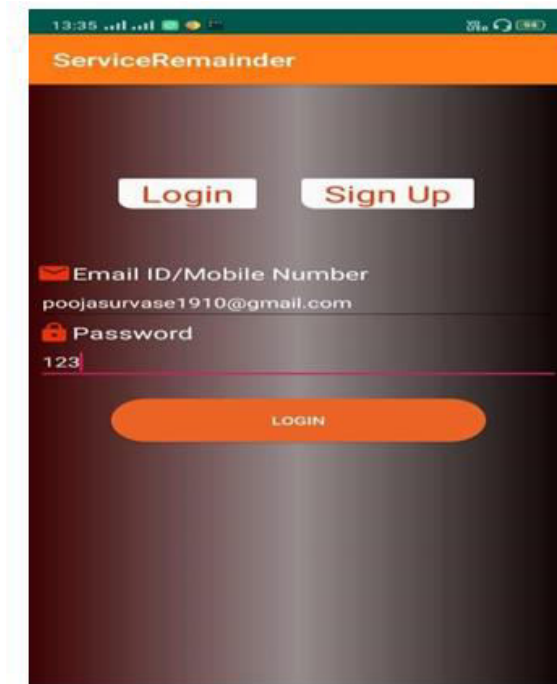


Figure 3: Login Page

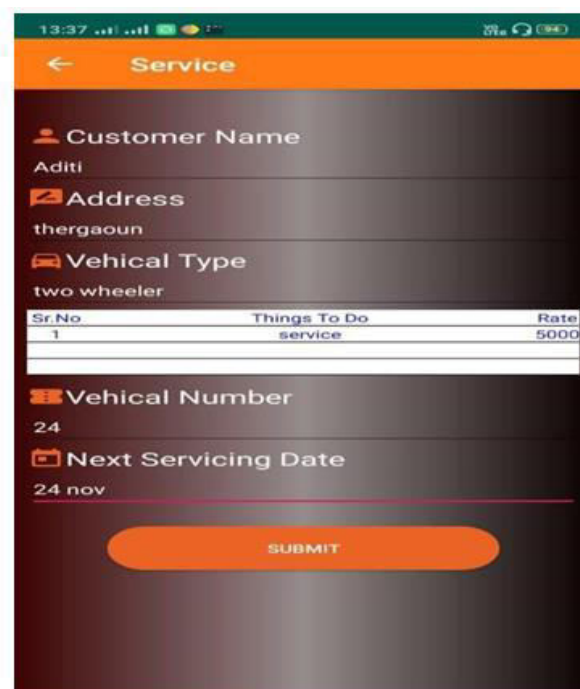


Figure 4: Customer Page



## VI. CONCLUSION

- Vehicle Management System Java web application satisfies all the needs of admin, customer, sales manager, and vehicle by providing fast and accurate information about vehicles.
- No more duplicating information, no more chasing engineers to get your job cards back and no more missing, incomplete or ineligible information.

## VII. FUTURE PROSPECTS

The application can be further upgraded to be implemented to IOS as well to identify the problems faced by Service Engr. Stock and Management. The application can also be developed to be used in private sectors such as companies where the companies try to preserve a best development efficiency in working. Further the app can be updated to work as and client server application where one administrator can control the reports of every user to maintain security, integrity and confidentiality of data / reports. Several GUI features can be added also new security policies can be implemented to maintain security of information as this data might be very sensitive for a user.

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