

# International Journal of Innovative Research in Computer and Communication Engineering

(A High Impact Factor, Monthly, Peer Reviewed Journal)

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# **Android Based Bike Service Ratting System**

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**ABSTRACT:** The problems related to the bike owners are considered as a problem statement in our project such as Servicing of bike, buying new spare parts, roadside assistance for there pair and maintenance of the bike. And also the help for the garage owners as well as mechanic to enhance their services through this application. The existing problems related to the repair and maintenance of the bike were too much time consuming so that costly too and were panic for the biker if he is out of station or at remote location. So we are trying to help biker, garage owner and mechanic by coordinating them with the help of this application.

#### I. INTRODUCTION

. The new Era of the web and IOT is making the life of people as easy as possible but now a days the problems of the bikers must be understood there must be any platform or an application through which he can avail the services related to the bike. This is an application for Bike and bike spare parts store that has listof various bike with their features. The bikers can also be provided with the real time information of the servicing garage owners and the contact details of the nearest garageThesparepartshopkeepersaswellasgarageownerscan register their shop on the portal .bikers can request for the help at remote location through bikers portal if any emergency regarding maintenance or repair of bike. Travelling from one place to another is an issue because of raise in the population causes in the increase of the vehicle use likebike.

Duetothis, carbonemissions are being released in large amount which is harming the environment. And also because of increasing number of personal vehicles mostly cars, the parking problems are increasing and also pollution is rapidly growing. People are also suffering from high travelling costs and also fuel prices are rising.

In order to overcome these problems we are finding different solutions on it. Biker portal is an android application in which people will share bikes to travel distances which goes along the same route of the bike user. Bike Pooling is a pick-up and drop- off service provided to the users according to the irneeds. Hence number of vehicles will be reduced so that traffic congestion problems, air pollution will be reduced. Bike leasing also helps People to share their travel expenses that is fuel costs which will also be useful to save fuel for future use as fuels are getting decreased day by day due to large amount of consumption.

In this application Aadhar card link will be added for getting user'strueidentity. Italsoincludes Googlemaps for tracing real time navigation. This application is useful for booking bikes from home also. Not only leasing bikes service this application will also help the biker to purchase any products for bikes through this application by placing an order to the spare part owner by choosing it from the application.

This application connects three main peoples together they are Biker, Garage owner and the Spare parts shopkeeper. Which enableseveryone to enhance their services and provides ervices at fast as possible and biker will get that services at their door step on one click only at affordable rates. So we hope that this application will definitely overcome the problems of the bikers as well as will help the garage owner and spare part seller to increase their sell and its services too.

## 1.1 ProblemStatement:

The emergency failure of the bike at any remote location. In Citiesandtheruralareasthebikersarefacedwithanytechnical problemsrelatedwiththebikemaintenanceorrepair. To repair the bike or to buy products related to bike he has to search for the garages or spare part stores. Bikers are unknown to new places. Bikersdonothave any chance without repair of the bike or get a new bike on lease till the bike get repaired. So that he



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need to seek for the garages which provides the bikes on lease so that he should have a application which help in searching the nearest garage which provides bikes non lease. So this is the problem which we have to overcome with the help the android application

### 1.2 Motivation of the Project

The motivation of this project is from the government scheme "Digital India". The main goal of this project is to develop system a target crucial problems, time and cost and service in time.

## 1.3 Objective:

- To develop a Web/Android application for the Bikers assistance.
- Bringing the flexibility within the services of thebikers.
- Increase in the Customer Satisfaction of the bike manufacturing/selling company by delivering the services within time and transparently.
- Coordination between Biker, Garage, Mechanic.

### II. LITERATURESURVRY

1. Secure Remote Diagnostics of a Vehicle Using UGP Rohit Mehra,1Balakrishnan Paulraj2 and Arup Mukher, IEEE WiSPNET 2017 conference.

Diagnostics of a vehicle has been predominantly done at the garage (service center). Thus, it was always considered to be over a "trusted" access. In the recent past the trend is to move towards making this diagnostic available to a remote location

i.e. over an untrusted network for various

featuressuchaspredictivediagnostics, ADAS (advanceddriver assistance systems), automated driving etc. Currently there are proprietary solutions (specific to OEMs) available for remote diagnostics and secure vehicleaccess.

2. Maintenance Spare Parts Demand Forecasting for Automobile 4S Shop Considering Weather Data, Yang Liu, Qi Zhang, Zhi-Ping Fan, Tian-Hui You, and Lu-Xin Wang, Citation information: DOI 10.1109/TFUZZ.2018.2831637, IEEE Transactions on FuzzySystems

Maintenance spare parts demand forecasting is an important foundationofmaintenancesparepartsinventorycontrol, which is an essential daily work of managers of automobile 4S shop. Although the existence of the effect of weather conditions on maintenancesparepartsdemandhasbeenverified, the studyon maintenance spare parts demand forecasting for automobile 4S shopconsidering weather data has not been found. In this paper, an ovel method is proposed formaintenancespare parts demand forecasting for automobile 4S shop considering weather data.

3. Optimizing Bootstrap Method to Improve Forecasting Accuracy in Business Jet Spare Parts Supply Chains, Roseline Ezekwesili, M. K. Shahzad, A. Baboli, R.Tonadre

Having products available when customer wants them keeps customers satisfied and businesses more competitive, especially in business aircrafts industry where clients are paying considerably higher for flying than in a commercial airliner. So, all parts needed for normal operation and maintenance must be readily available to ensure business flights. As there are business aircrafts' spare parts which have lead times of up to three years, to ensure that the right parts are available at the right time in the right volume and at the right location, forecasts must be made of anticipated customer demand.

4. Coordinationin Spare Parts Supply Chains, Philipp Salmann, 2016 International Conference on Collaboration Technologies and Systems

this research will study the characteristics of spare partssupply chains, empirically analyze various instances of real life spare partssupplychainsandinvestigatehowcoordinationincurrent spare parts supply chains can be improved. Themain



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contributions of this research will be a novel classification system for differentiating classes of spare parts supply chains based on their observed coordination characteristics and correspondingly providing guidance for improving coordination deficits in these classes.

#### III. PROPOSED SYSTEM

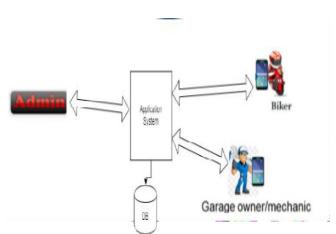


Fig 3.1: Block Diagram

Fig shows the System architecture of the Biker Portal.

The system is made up of different modules where the android application will include the three modules

- Biker
- 2. GarageOwner
- 3. Admin

#### Biker:

Biker is allowed to use this application for different services liketopurchasethesparepartsofthebike,totakebikeonlease, or to take help in bike maintenance emergency with roadside assistance service. In this module the bikers required registration first of all to the application, this required the information like,personal details,aadhaarcardno,bikepassing no,addressetc. after registration the biker can avail the services of the portal. Biker can rate the service as good ornot with star.

# Garage Owner:

Thismoduleisforthegarageownerinwhichthegarageowner have register first of all, after registration he can use it for their business purpose by log in to application, Garage owner can manage their spare part inventory in this application, and also can view the bikers request for purchasing the parts. Garage owner can view the service rating.

#### Admin:

Admin has the authority to do the administrations tasks such as verification of the bikers, application related query solving etc.

#### 3.2 Flow Chart:

A flowchart is a visual representation of the sequence of steps and decisions needed to perform a process.

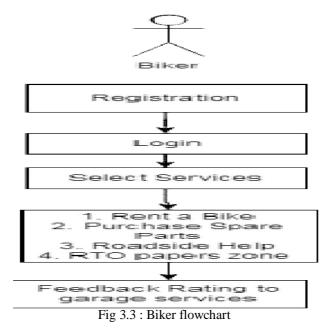


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Each step in the sequence is noted within a diagram shape. Steps are linked by connecting lines and directional arrows. Here is the Flowchart of Biker and the Garage Owner

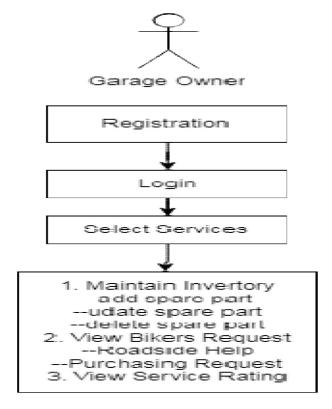


Fig 3.4: Garage Owner Flowchart



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### IV. OTHER SPECIFICATIONS

### 4.1 Advantages:

- Biker does not have to go manually to purchase the product, this savestime as well as human effort of the user.
- Businessimprovementduetotimelyservicesofthegarage
- Bikergetspanicfreeservicesatdoorstepaswellasonroad
- Real time navigation system is used i.e. Google map to locate the nearest garage as well as bikerslocation.
- Garage services are rated as per their service by the biker so that there is more improvement in the services by the garage owners to make their garage as a five star rated garage as per point of view of thebikers
- Bikers having more options to get theservices.
- Bikerscanmaketheirchoiceoftheproducttobepurchased
- Application is more comfortable forusing.
- This is Most Wanted application for thebikers
- This application is very useful for the garage because he can easily rent his bike to any needybiker
- A Biker in an emergency is now out of frustration due to thisapplication.

### 3.2 Applications:

- This applications has manyuses.
- For AnyBiker
- For Any garage owner
- For any ShowroomOwner
- For startup of the bike rentbusiness

### **Experimental Results:**





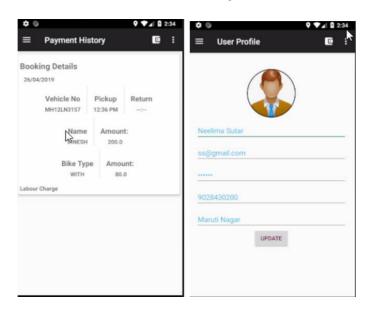


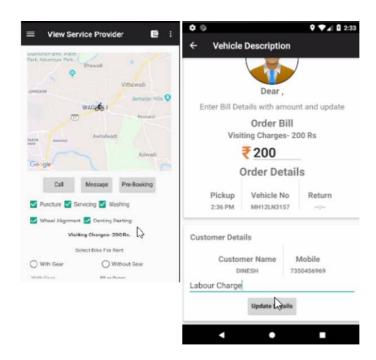
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V. CONCLUSION

So with the help of the "Biker Portal" we are trying to be apart of Digital India to help biker, garage owner and mechanic by coordinating them with the help of this application. Which brings the coordination among company, biker, garage owner, and mechanic. Useful for all bikers. Smart application for the bikers. This application will be the best application for all those who use it for the bike related problems.



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- Optimizing Bootstrap Method to ImproveForecasting Accuracy in Business Jet Spare Parts Supply Chains, RoselineEzekwesili, M. K. Shahzad, A. Baboli, R. Tonadre Optimal Skill Assignment with Modular Architecture in Spare Parts Supply Systems ,Maryam Al-Khatib, HasanHuseyinTuran, Andrei Sleptchenko, 2017 4<sup>th</sup>International Conference on Industrial Engg. and Applications.
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