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ijircce@gmail.com



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# BIKE RADAR SYSTEM USING AWS CLOUD

Pranit Shirole<sup>1</sup>, Sonali Sable<sup>2</sup>, Sahil Sherkar<sup>3</sup>, Preeti Patil<sup>4</sup>, Prof. Shyam Sundar Magar<sup>5</sup>

B.E Department of Information Technology, Terna Engineering College, Nerul, Navi Mumbai, India<sup>1,2,3,4</sup>

Professors, Department of Information Technology, Terna Engineering College, Nerul, Navi Mumbai, India<sup>5</sup>

**ABSTRACT** - The bike radar system is a platform that provides bike-related services to customers from buying a bike to selling the bike and also servicing the bike. A bike-selling and buying online platform is a digital marketplace that sellers. The platform provides a user-friendly interface that of their bikes, while buyers can easily search for and specifications and prices. The platform may also offer delivery services, and customer support. By connecting increases access to a wider range of bikes and enables more online platform is a digital platform that provides a convenient and efficient way for bike owners to book and The platform offers an easy-to-use interface that allows the progress of their requests. Service providers, such as services, prices, and availability, and receive bookings from feedback and rating systems. By leveraging the power of affordability, and quality of bike servicing, and promotes a more sustainable and active lifestyle.

## I. INTRODUCTION

Bike radar using AWS is a service-based product for those who want to service their bike at home or at our service center through booking from our website. Nowadays people are busy with their work and if they want to service their bikes and save time and be safe from fraud, non- transparency, and hidden costs they can use our platform. In our product, we are using AWS server-less cloud computing technology .and if any customer wants to sell their bike then they upload all the details images of the bike and create an ad of that and it will show in our platform. and the other side if any customer wants to buy a second-hand bike then they can buy through our platform. And we also have a blog section in which all the news from the automobile industry will come so those who want to read information related to bikes they also read it.

## II. LITERATURE SURVEY

### A. *Biker Store And Blog System : A Review of the Literature:*

Arjun Patel, Prince Patel, Mohsin Malgundkar and Prof. Yogita Mane(2021). This paper provides an overview of the literature on various modules such as Bike service Registration, user to rent bike, buy bike, bike parts and inventory online, user to check various articles submitted by user and even comment on them and also there is Credit/Debit card/COD payment facility is available.

### B. *Citywide Bike Usage Prediction in a Bike-Sharing System: A Systematic Literature Review:*

Yexin Li; Yu Zheng(2019). This paper presents a systematic review of the literature on bike-sharing system efficiently, system operators need to accurately predict how many bikes are to be rented and returned throughout the city. First, an Adaptive Transition Constraint (AdaTC) clustering algorithm is proposed to cluster stations into groups, making the rent and transition at each cluster more regular than those at each single station. Second, a Similarity-based efficient Gaussian Process Regressor (SGPR) is proposed to respectively predict how many bikes are to be rented at different-scale locations, i.e., at each station, each cluster, and in the entire city.

Considering the causality between rent and return, a Transition based Inference (TINF) method is designed to infer the citywide bike return demand based on the predicted rent demands.

C. *Implementation Of Web- Based Bike Renting Application  
"Bike-Sharing"*

Ratieh Indah Permitasari, Riad Sahara (2018). This paper examines the literature on it is expected to be able to build a bike rental system that is reliable and computerized, able to accommodate payment transactions that are easy, fast and safe without using cash, which called contactless payment methods and generating rental and payment reports that are precise and accurate for company's financial reporting purposes. This study using PIECES analysis as a problem analysis to get an overview of the problems and risks and the Spiral development method where several repetitions are carried out so that it can produce applications that are in accordance with user expectations and needs.

D. *Bike Pooling Android Application: A Review of the Literature:*

Pooja Sutar, Rucha Patki, Aarti Kenchi, Tejas Dhole, Prof. Pranali Mahadik (2018). This paper examines the literature on there is lot of increase the number of vehicles, there is increase in pollution, traffic, and rise in petrol costs. To overcome these problems this paper introduces bike sharing application in which people can share expenses of fuel by sharing the bike to reach their destinations. The objective of bike pooling is to reduce the number of bikes in use by grouping people. Also the growing pollution and traffic problems will be reduced due to sharing of bikes.

E. *SAWARI :The Bikers Portal: A Systematic Literature Review:*

Nitya Mhatre, Vinuja Khatode, Shraddha Bhalerao and Dr. Chhaya S. Pawar (2020). This paper examines the literature on Sawari biker portal gives the solution to problem when there is no public transport available at that time. This will be a web application which will provide bike rental service. It will also provide a single platform for rental companies and user effectively and efficiently. This application is a combination of both sales and inventory management of the bike.

### III. PROPOSED SYSTEM

We are providing four phases which contain Bike Service and all the details of bike services. Also, pre- appointments are considered. Phase Two provides the option for buying the bike. Phase Three contains the selling platform for those who want to sell their bikes. Phase Four schedules the information of all the upcoming bikes and provides all the information over a single web element.

The main task that we will be covering in our application are as follows: -

**User registration:** Users would register on the platform and create an account with their personal information, including their name, address, and contact information. **Bike Listing:** Sellers would be able to list their bikes for sale on the platform, including information such as the bike's make, model, year, and condition. The platform would allow for multiple photos and videos of the bike to be uploaded.

**Bike Servicing:** The platform would offer services for bike servicing and maintenance, including a directory of local service centers, and bike mechanics, Users would be able to schedule servicing and maintenance appointments through the platform.

**Search and filter:** Buyers would be able to search for bikes based on their preferred make, model, price range, and location. The platform would provide filters to narrow down the search results based on the buyer's preferences.

**News Section:** The platform should have a section dedicated to news related to the bike industry. This section can include the latest updates on bike models, upcoming events, and other industry-related news.

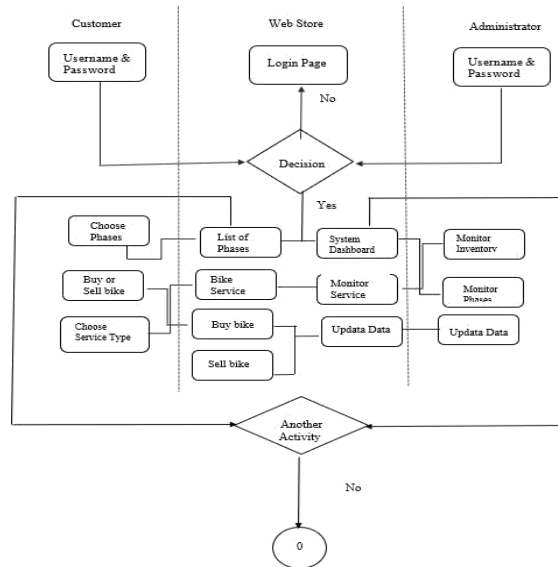
**Reviews section:** The platform should also have a section where users can read and write reviews about bikes, bike components, and other related products. Users can rate products based on their personal experience, which can help other users make informed purchase decisions.

### IV. SYSTEM ARCHITECTURE

System architecture helps visualize the concept of any project in such a way that it becomes easily understandable to see the working flow of any system to both the system designer or developer and the common man. By mapping out the system's structure and components, developers can identify areas that may require optimization or redesign, leading to a more efficient and effective system. The above system architecture shows the flow of our app. This workflow illustrates how the system will work right from login to creating an account for a buyer or seller according

to the customer’s need. after creating an account seller has the option to post the ad with all the details of the bike and add will be shown in the platform after the buyer can see the bike. after login users also have an option for servicing the bike they book the service according to their needs. And user also see the news and reviews of bike.

**A. Flowchart**



**B. Details of Software and Hardware Software Requirements**

- UI development: Visual Studio Code
- Toolkit: python Django
- Database: SQL
- Third-party libraries

**Hardware Requirements**

- Processor: Intel Quad-core 1.7 GHZ Processor or above
- RAM: Minimum 8GB of RAM

**V. IMPLEMENTATION**

There are three main sections for any individual for starting or using this application. All the three individuals need to first create an account on the application by giving some basic information. Mainly there would be three individuals donor/investor, campaign creator and the backend team for verification process. The Investor/Donor who are the customers willing to see campaign and donate or invest in a crowdfunding campaign according to there will can simply see which

recent campaign is been created and what's it's for, what are its reason to asking such funds, who can donate and many other information. If the investor/Donor helps a particular campaign by transacting the money, he will receive the payment slip of his transaction and all the details including to which campaign he has invested/donated, when did he did, at what time and the cost. This receipt will be emailed at his email address. The second category individual will be the campaign creator who wants to raise money according to his purpose. After login he has to give a full detailed information of what is the product (if it's a crowdfund raiser), what are their goals, what are the funds start and end dates, what incentives will be provided if someone invests onto the company. What they will do if product docent works out. What are their specific terms and condition. These are some basic information that they will be giving for any individual to know if he visits the campaign page what are they asking about and why .The same rules also goes applies to the Charity campaign who wants help from the general public in different ways.1)what are its goal 2)how they will help the needy ones .To ensure the trustworthiness of this campaign , these campaigns needs to give some related documents .These documents include identity proof, address proof, Bank account details, Tax ID numbers,

Business registration documents, projects details and other legal documents. This will help to raise funds for actual needyones without creating a fake campaign to raise funds. These details would be sent to the backend team , and these members would verify the campaign on their own and if they found these campaign to be true the will deploy this campaign onto the app .If they found that the campaign is not feasible they will not deploy the campaign and give reasons to the campaigner of what things are wrong . Thus, a safe and secure charity and crowdfunding raising application is been created using flutter tool kit.

## VI. CONCLUSION

Bike radar is standardized application technology which provides transparency to the customer with a modern facility and also provides bike price prediction which predicts the life and price of the bike from user data.

## VII. ACKNOWLEDGEMENT

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