

## BIKERS' PARADISE

Namrata Mahakalkar\*<sup>1</sup>, G.Shrikant Raju\*<sup>2</sup>, Darshan Giri\*<sup>3</sup>,

Girijashankar Sahare\*<sup>4</sup>, Rahul Haldar\*<sup>5</sup>

\*<sup>1</sup>Assistant Professor, Department of CSE, PIET, Nagpur, Maharashtra, India.

\*<sup>2,3,4,5</sup>Student, Department of CSE, PIET, Nagpur, Maharashtra, India.

### ABSTRACT

This is an online Bike and bike components store that has listings of sundry bikes along with their features. The system sanctions users to buy bike, bike components and inventory online through multiple modes of payments. This system additionally consists of a 'Rent a Bike' feature where users can ask the admin for a bike on rent. Not only that this website will consist of 'need a mechanic' to accommodate or repair the conveyance at the comfort of your abode. Visitors visiting the website must register themselves by filling up personal details. After registration the utilizer can authenticate to the system with his username and password in order to access the system. Users can check sundry bike listings and can view each bike's features. Users can check features of the bike as well as inventory components, and adjuncts. Users may cull the product and can integrate the product to the shopping cart. Users can make payment through Credit/Debit Cards, Internet Banking, UPI or Pay on Distribution by clicking on payment options.

**Keywords:** Bike On Rent, Spare Parts, New Bike, Bike Services, Online Payment.

### I. INTRODUCTION

The Indian Bikes industry, the second most sizably voluminous in the world, engenders around 10 to 14 mn units annually. China leads with an engenderment of over 50 mn units. The total world market is estimated at approximately 100 mn units. In value terms, the current market size is estimated at Rs. 22 bn and is growing at about 3.5% annually. The opening up of the economy in the wake of the overall liberalisation policies of the regime, led to the spectre of frugal Chinese bikes entering into the Indian market. There was, however, no major threat emanating out of those imports consistent with the domestic bike manufacturers. The entire market of Bikes can be divided into domestic and peregrine markets.

This system is designed to avail the customers to take bikes on rent, buy bikes' spare components, and other accommodations cognate to bikes. When we go on any peregrination outside the town or country we opt to be free of time so in lieu of going through metros and taxis we prefer to have our own conveyance for rent. Utilizing this technique conveyance owners can register as sellers and customers who want to require bikes or car on rent can register themselves as renters and may take any bike or car on rent. This has one admin account who verifies the registering utilizer and two types of the utilizer account. One for bike sellers and one for patrons who take the bike on rent. This system has just one admin account and can't have quite one admin account.

This is an online Bike and bike components store that has listings of sundry bikes along with their features. It additionally consists of Bike accommodation Registration. This system sanctions the utilizer to buy bike, bike components and inventory online. System sanction utilizer to check sundry articles submitted by utilizer and even comment on them. Credit card payment facility is available. This system additionally consists of 'Rent a Bike' feature where the utilizer can ask the admin for a bike on rent. Visitors who visit the website must register themselves by entering up personal details. After registration, the user can authenticate to the system with his username and password in order to access the system. Utilizers can check sundry bike listings and can view each bike's features. Utilizer can additionally check features of the bike as well as inventory components, and adjuncts. Utilizers may cull the product and can integrate the product to the shopping cart. Utilizers can make payments through credit cards by clicking on the credit card payment option. Utilizer must register himself for posting an article.

[1] Bike sharing is described by Shaheen et al. as being a solution to what is called the "last mile quandary." This is where a commuter is endeavoring to decide between driving or taking transit/carpooling, and decides on driving because there is no connection between the drop-off point and the destination (Ibid). By inserting

shared Bikes around high-value destinations like urban cores, college campuses or corporate campuses, these systems can provide the last vital link in a non-automobile commute.

[2] Bike sharing commenced in the tardy 1960's in the Netherlands and the UK as free, communal bikes that could be picked up, ridden to any destination, and then dropped for the next utilizer (Shaheen et al.). Due to larceny and vandalism, these programs transmuted first into coin operated and then electronic stall systems so that the fleet could be better tracked and maintained (Ibid). These programs spread to North America in the early 1990's, starting with Portland, Oregon's Yellow Bike Program. This program ineluctably ran into the same quandaries of larceny and vandalism as the early programs in Europe (Ibid.).

[3] The most prominent case study today for urban bike sharing systems is India. The Ve1ib program in India commenced with 13,000 subscribers, growing to 100,000 only three months later, and gaining international accolades for its environmental responsibility within the process (NYCDCP 2009). Velib is an example of a "Astute System", consummate with docking stations and digital rental technology, which one study put the international total at 78 cities with an amalgamated fleet of virtually 70,000 Bikes in 2018 (Midgley 2010). A separate report put the number at 90. These systems aren't frugal; Velib in Paris had start-up costs of \$114 million, with annual operating costs of \$45.8 million for a fleet of 24,000 Bikes (NYCDCP 2019).

[4] Across North India, there are roughly 65 college campuses with bike sharing programs, with another 10 orchestrated by the terminus of 2020 (Shah et al.). In the U.S. only Keenly intellectual Bike in Washington DC has automated kiosks like in Europe (NYCDCP 2009). However, Minneapolis is slated to commence a bike sharing program "Nice Ride" in June of 2020, and Philadelphia and Incipient York City are both in the orchestrating stages for bike sharing programs of their own (Ibid.). Other programs have a variety of funding levels and organizational structure; indeed, some have no ostensible funding source and operate predicated on donated labor, space, implements, and bikes.

[5] In the case of motorcycle sharing programs on campus, the evidence base is even shallower. Probably because of the low cost, grassroots nature of campus Bikes sharing programs initiated by students, there is very constrained data on the potential impact they might have. Two studies are conducted by students to work out campus interest in potential bike sharing programs, though none might be found which evaluate the real impacts of subsisting programs (Brougham et al; ECOHusky).

## II. METHODOLOGY

This is an online Bike and bike components store that has listings of sundry bikes along with their features. It additionally consists of Bike accommodation Registration. This system sanctions the utilizer to buy bike, bike components and inventory online. System sanction utilizer to check sundry articles submitted by utilizer and even comment on them. Credit card payment facility is available. This system additionally consists of 'Rent a Bike' feature where the utilizer can ask the admin for a bike on rent. The visitor who visits the system must register himself by filling up personal details. After registration, the user can authenticate to the system with his username and password in order to access the system.

Utilizers can check sundry bike listings and can view each bike's features. Utilizer can check features of the bike as well as inventory components, and appurtenances. Utilizers may cull the product and can integrate the product to the shopping cart. Utilizers can make payments through credit cards by clicking on the credit card payment option. Utilizer must register himself for posting an article. This application is an accumulation of both sales and inventory management of the bike and bike components. Utilizers can easily purchase bikes or bike components by utilizing this system, utilizers do not have to come manually to shop to purchase the product. He can view the bike and bike components in an efficacious Graphical Utilizer Interface. Utilizers can view features of each product and can compare the products in order to purchase a better product.

In this project, there are sundry types of modules available to buy incipient bikes, spare components, rent bikes, repair bikes, and other accommodations. These are the main modules of the project:

- Online Bike Purchasing Module.
- Spare Parts Module
- Repair Bike Module
- Rent Bike Module

- Lease Bike Module
- Payment Module
- Booking Module

The project is divided into two parts that is User and Admin Module:

### 1. Admin Module:

Admin can perform authenticate operation there will be some fine-tuned admin which we can directly from the database. The registration form isn't available for the admin. Once the admin is authenticated in the application.

- Admin can view the booking request sent by the purchasers.
- Admin can view the feedback sent by the customer.
- Admin can check the available components in the shop so they can manage the requisites.
- Admin can have incipient components/accumulations in the database so it will be facile to maintain the record of components.
- Admin can view all the invoice records.
- Admin can engender an invoice for a single customer.
- Admin can transmute the password.
- Admin have the access to INTEGRATE/EFFACE/EDIT all the modules.

### 2. User Module:

It is basically designed for all the users of this website. All the features are available here for them to play with and to take advantage of it.

- A new user can register in the application and an existing user can log in.
- User can check booking details
- Users can View the feedback which is provided by the other customers.
- Users can send a service booking request.
- Users can check the billing details and invoice history.

### 3. Rent Bike Module:

This system is designed to avail the customers to take bikes or two-wheelers on rent. When we go on any peregrination outside the town or country we opt to be free of time so in lieu of going through metros and taxis we prefer to have our own conveyance for rent. Utilizing this system conveyance owners can register as sellers and customers who want to take bikes on rent can register themselves as renters and can take any bike on rent.

Addresses of both are required as the customer can only take a bike by going to the address provided and the vehicle owners can know the address that a customer is verified or not. The customer also has to upload some proof to take the bike on rent.

## III. MODELING AND ANALYSIS

### 1. PHP

PHP (or PHP Hypertext Pre-processor) is a server-side scripting language that is utilized to engender dynamic web pages that can interact with databases. It is a widely-used open source language that is concretely utilized for web application development and can be embedded within HTML.

Step 1: At the command line, log in to MySQL as the root user: (mysql -u root -p)

Step 2: To engender a database utilizer, type the following command. Supersede username with the utilizer you optate to engender, and supersede password with the utilizer's password:

```
(GRANT ALL PRIVILEGES ON *.* TO 'username'@'localhost' IDENTIFIED BY 'password');
```

Step 3: CREATE TABLE example (id smallint unsigned not null auto\_increment, name varchar (20) not null, constraint pk\_example primary key (id));

```
INSERT INTO example (id, name) VALUES (null, 'Sample data');
```

### 2. Xampp Server

XAMPP is an abbreviation for cross-platform, Apache, MySQL, PHP and Perl, and it sanctions you to build WordPress sites offline, on a local web server on your computer. This simple and light-weight solution works on Windows, Linux, and Mac – hence the “cross-platform” part.

### 3. MySQL

MySQL is a relational database management system predicated on SQL – Structured Query Language. The application is utilized for a wide range of purposes, including data warehousing, e-commerce, and logging applications. The most prevalent use for mySQL however, is for the purport of a web database.

## IV. RESULTS AND DISCUSSION

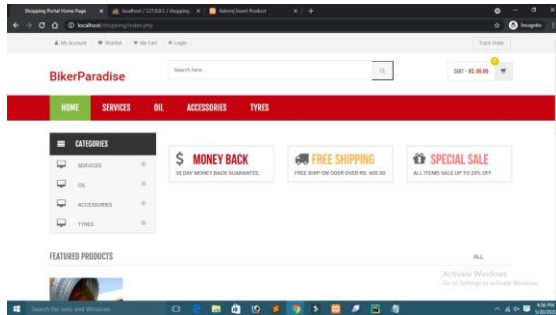


Fig. 1 Front Screen of the website 1

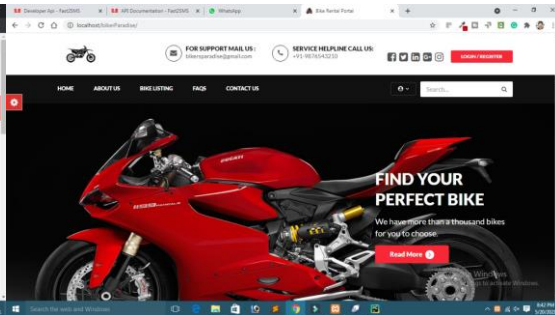


Fig. 2 Front Screen of the website 2

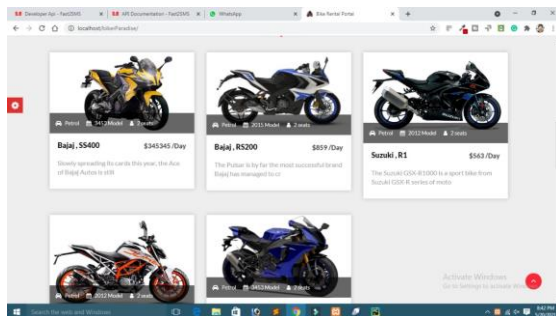


Fig. 3 Biker's Paradise

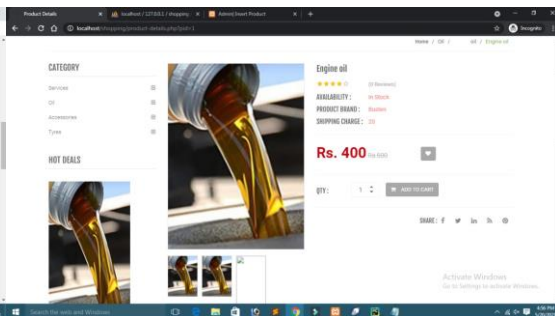


Fig. 4 Product Purchasing

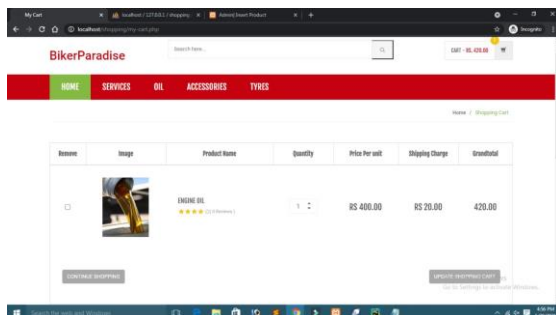


Fig. 5 Cart Details

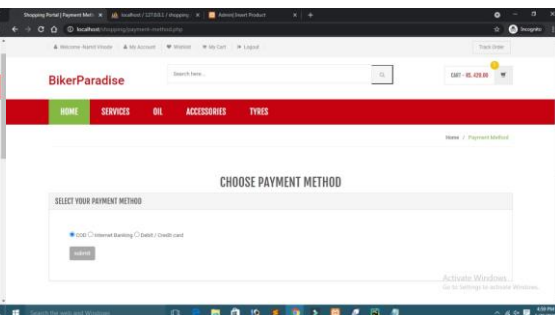


Fig. 6 Order Summary

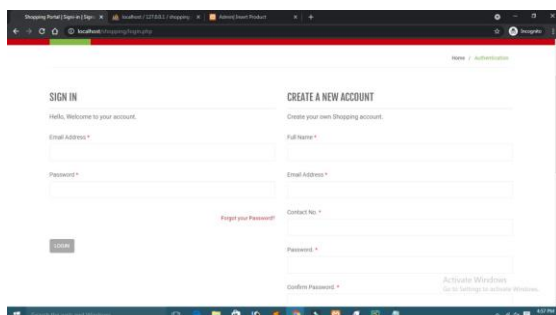


Fig. 7 Payment Module

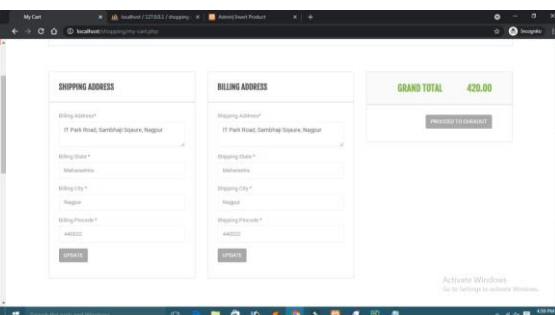


Fig. 8 Order Details

## V. CONCLUSION

This proposed project of bikers' paradise is made keeping in mind the need of today's generation. This project connects two modules of bikes on rent and spare parts services. With the help of this one can rent any bike online and with simple steps and also pay online via different payment methods integrated in this project. On the other hand one can take advantage of buying spare parts and servicing of bikes on their location by booking the slot online. We came up with this idea to reduce the time consumption and regulate the service for common man. This portal has all the required options that need to be used by the customer. In future we are looking for on-road services to provide services to those customers who are stuck themselves on the way because of bike damage and also working on selling four-wheeler auto parts and services.

## VI. REFERENCES

- [1] M. Amroune, P.J. Charrel, N. Zarour and J.M. Inglebert, "A Model-Driven Engineering Approach to Develop A Cooperative Information System", *International Journal of Software Engineering & Applications (IJSEA)*, Vol.4, No.3, 2019, pp. 29-43
- [2] D. Avison and G. Fitzgerald, *Information Systems Development, Methodologies, Techniques and Tools 4th ed.*, McGraw Hill, USA, 2019.
- [3] K.R. Allen, *New Venture Creation 6th ed.*, South-Western CENGAGE Learning, Canada, 2020.
- [4] M.A. Fuller, J.S. Valacich and J.F. George, *Information Systems Project Management, A Process and Team Approach*, Pearson –Prentice Hall, USA, 2018.
- [5] P. D. Gupta, S. Guha and S. S. Krishnaswami, "Firm Growth and Its Determinants", *Journal of Innovation and Entrepreneurship*, Vol. 2, No. 15, pp 1-23, 2018.
- [6] S. Heriyanto, *Pengembangan Sistem e-Distributor untuk Bidang Usaha Sparepart Sepeda Motor*, Skripsi, Program Studi Teknik Informatika, Universitas Katolik Parahyangan, 2019.
- [7] V. P. Ilavarasan and B. Parthasarathy, "Limited Growth Opportunities amidst Opportunities for Growth: An Empirical Study of the Inter-Firm Linkages of Small Software Firms in India", *Journal of Innovation and Entrepreneurship*, Vol. 1, No. 4, pp 1-16, 2019.
- [8] K. C. Laudon & C. G. Traver, *E-Commerce: Business, Technology, Society 6th ed.*, Pearson Education, England, 2018.
- [9] K. Manzoor, Q. Muhammad and A. F. Sahar, *Advanced Topics in Software Engineering: Requirement Elicitation Techniques, Case Study: Online Vehicle Trading*, Blekinge Institute of Technology, 2017.
- [10] N. Mulla and S. Girase, "Comparison of Various Elicitation Techniques and Requirement Prioritisation Techniques", *International Journal of Engineering Research & Technology (IJERT)*, Vol. 1, Issue 3, pp. 1-8, 2019.